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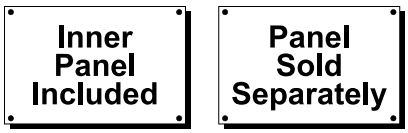
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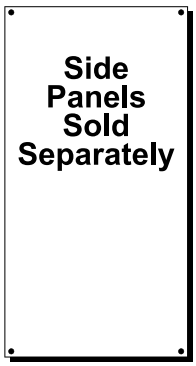
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Legend for Icons and Logos



Panel Included

When you see either of these logos; "Inner Panel Included", "Inner Panel Not Included" or "Order Panel Separately" on a product page, you will instantly know whether or not that this product is shipped with 1 properly sized inner panel. If the panel is not included the Optional Panel Part Number will be clearly shown for easy ordering.



Order Side Panels Separately

When you see this logo; "Order Side Panels Separately" on a product page, side panels are optional and a page reference will be given for ease of ordering.



Hardware Included

This icon indicates that all necessary mounting hardware will be shipped with your enclosure, component or accessory. If hardware is not included, you can find a selection of mounting hardware in our General Accessories section.

Standards Logos

You will see some or all of these logos located at the top right hand corner of a product page or in some cases with the technical drawing. Again, this is important "at-a-glance" information that you can gather to determine exactly which standards this product meets. For more detailed standards information, refer to Standards in the product text area for each enclosure - usually located in the left hand column under the photo. For standards definition information, refer to our Technical Information section.

Electronic Industries Alliance

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Industrial Enclosures


Eclipse Junior Series
Single Door Enclosures -
NEMA 12, 13, 4 ..... **2**


1414 Series Enclosures
Clamped, Lift-Off Cover -
NEMA 12, 13 ..... **4**


1414 N4 Series Enclosures
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Continuous Hinge, Clamped Cover -
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1414 N4 PH Series Enclosures
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Eclipse Junior Series - NEMA 12, 13, 4

Single Door Enclosures



Inner Panel Included

Application

- Designed to enclose electrical and/or electronic equipment and protect against harsh, industrial environments.
- For use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Impressive styling features make the Eclipse Junior a suitable addition to any high-tech equipment installation.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, 12 and 13
- CSA Type 3R, 4, 12 and 13
- **Complies with**
  - NEMA Type 3R, 4, 12 and 13
  - IEC 60529, IP66

Construction

- Body and cover are formed from 16 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts, or holes.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- 14 gauge welded brackets provide for enclosure mounting.
- Continuously hinged cover has 304 stainless steel hinges and provides 180° opening.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Quarter turn latches formed from black zinc diecast.
- Oil resistant gaskets are permanently secured.
- Models larger than 4"x4" include a removable 14 gauge galvanized inner panel.
- Internal threaded weld studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided on the enclosure.
- Includes grounding kit and a hardware kit with panel mounting screws.

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating.
- Inner panels are unpainted galvanized steel.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Filter fans...*see page* ***408-413***
- Louvered ventilating plates ...*see page* ***450***
- Padlocking Adapter...*see page* ***432***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421***
- Wing knob lock...*see page* ***432***
- Swing panel...*see page* ***435***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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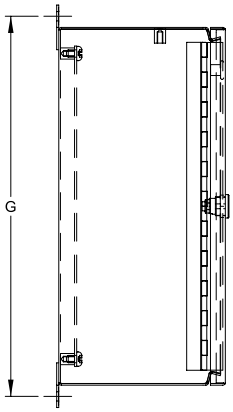
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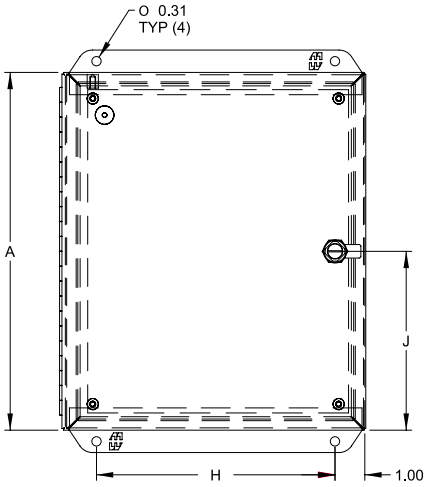
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Eclipse Junior Series - NEMA 12, 13, 4

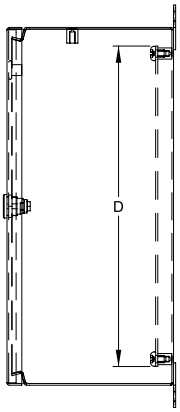
Single Door Enclosures



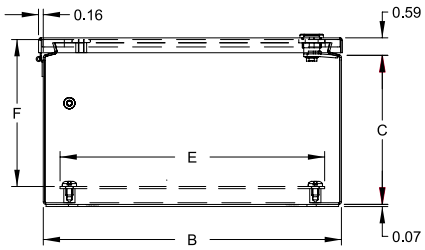
Hinge Side View



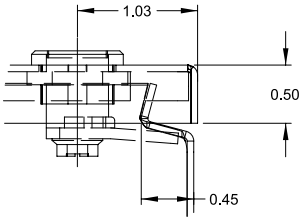
Front View



Latch Side View



End View



Quarter Turn Latch

Part No.	Overall Dimensions A	B	C	H	G	Panel Size D	E	J	F	Ship Wt. lbs.
EJ443	4.00	4.00	3.00	2.00	4.75	—	—	2.00	—	2
EJ643	6.00	4.00	3.00	2.00	6.75	4.88	2.88	3.00	2.92	2
EJ683	6.00	8.00	3.50	6.00	6.75	4.88	6.75	3.00	3.42	5
EJ863	8.00	6.00	3.50	4.00	8.75	6.75	4.88	4.00	3.42	5
EJ444	4.00	4.00	4.00	2.00	4.75	—	—	2.00	—	3
EJ644	6.00	4.00	4.00	2.00	6.75	4.88	2.88	3.00	3.92	3
EJ664	6.00	6.00	4.00	4.00	6.75	4.88	4.88	3.00	3.92	4
EJ884	8.00	8.00	4.00	6.00	8.75	6.75	6.88	4.00	3.92	7
EJ8104	8.00	10.00	4.00	8.00	8.75	6.88	8.75	4.00	3.92	8
EJ1084	10.00	8.00	4.00	6.00	10.75	8.75	6.88	5.00	3.92	8
EJ1264	12.00	6.00	4.00	4.00	12.75	10.75	4.88	6.00	3.92	8
EJ10125	10.00	12.00	5.00	10.00	10.75	8.88	10.75	5.00	4.92	10
EJ12105	12.00	10.00	5.00	8.00	12.75	10.75	8.88	6.00	4.92	12
EJ866	8.00	6.00	6.00	4.00	8.75	6.75	4.88	4.00	5.92	7
EJ1086	10.00	8.00	6.00	6.00	10.75	8.75	6.88	5.00	5.92	10
EJ10106	10.00	10.00	6.00	8.00	10.75	8.75	8.88	5.00	5.92	12
EJ12126	12.00	12.00	6.00	10.00	12.75	10.75	10.88	6.00	5.92	15
EJ12146	12.00	14.00	6.00	12.00	12.75	10.88	12.75	6.00	5.92	17
EJ1486	14.00	8.00	6.00	6.00	14.75	12.75	6.88	7.00	5.92	10
EJ14126	14.00	12.00	6.00	10.00	14.75	12.75	10.88	7.00	5.92	17
EJ14166	14.00	16.00	6.00	14.00	14.75	12.88	14.75	7.00	5.92	21
EJ16106	16.00	10.00	6.00	8.00	16.75	14.75	8.88	8.00	5.92	15
EJ16146	16.00	14.00	6.00	12.00	16.75	14.75	12.88	8.00	5.92	21
EJ12108	12.00	10.00	8.00	8.00	12.75	10.75	8.88	6.00	7.92	15
EJ14128	14.00	12.00	8.00	10.00	14.75	12.75	10.88	7.00	7.92	18
EJ16148	16.00	14.00	8.00	12.00	16.75	14.75	12.88	8.00	7.92	22
EJ161410	16.00	14.00	10.00	12.00	16.75	14.75	12.88	8.00	9.92	23

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1414 Series Enclosures - NEMA 12, 13

Clamped, Lift Off Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12 and 13
- CSA Type 12 and 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP54

Construction

- Body formed from 16 gauge or 14 gauge steel. Covers are formed from 14 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Welded brackets provide for enclosure mounting.
- Lift off cover is secured with stainless steel clamps and plated steel screws and retained with a plated chain when open.
- Oil resistant gaskets are permanently secured.
- Models larger than 4" x 4" include a removable 14 gauge inner panel.
- Internal threaded weld studs are provided for mounting inner panels.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Filter fans...*see page* ***408-413***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***
- Swing panel...*see page* ***435***

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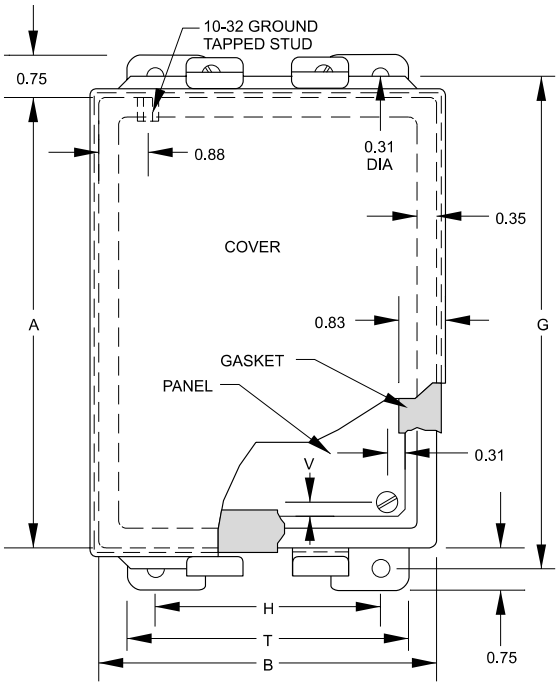
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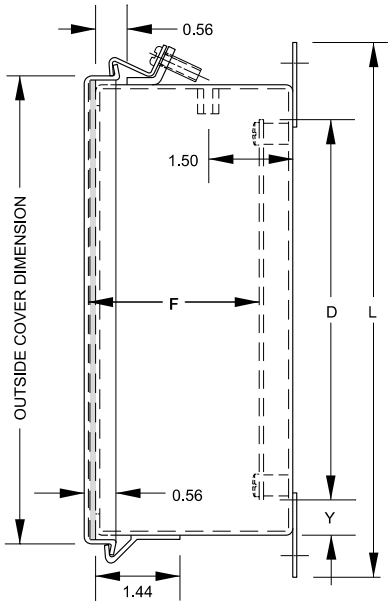
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1414 Series Enclosures - NEMA 12, 13

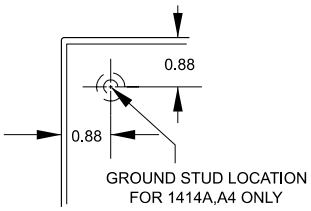
Clamped, Lift Off Cover

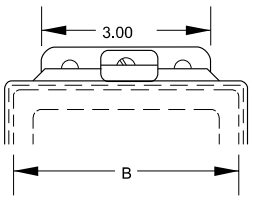


Front View

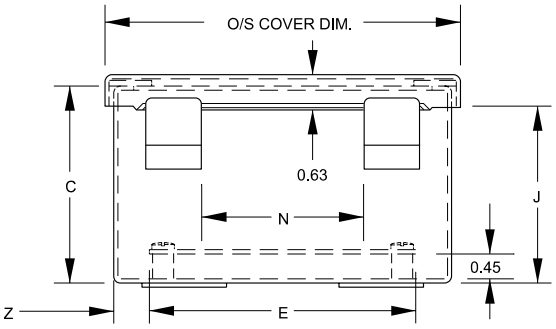


Side View

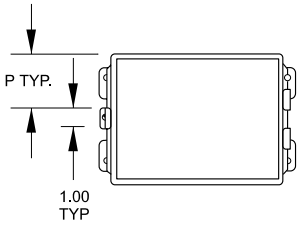




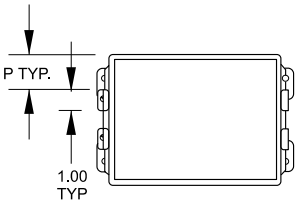
Mounting Foot Detail When B=4



Bottom View



View showing clamp location when one clamp is used



View showing clamp location when two clamps are used (where B=8 or more)

Part No.	Dimensions A	B	C	Panel Size D	E	Centers F	G	H	J	L	N	Cover Dimensions P	T	V	Y	Z	Ship Wt. Lbs.
1414A[1]	4.0	40	3.0	—	—	—	4.75	2.00	2 .64	5.50	1.31	4.31	4.31	1.50	3.00	—	—	—	2
1414C[1]	6.0	4.0	3.0	4.88	2.88	2.51	6.75	2.00	2.64	7.50	1.31	6.31	4.31	1.50	3.00	0.31	0.56	0.56	3
1414G	8.0	6.0	3.5	6.75	4.88	3.01	8.75	4.00	3.14	9.50	2.88	8.31	6.31	2.50	5.00	0.25	0.63	0.56	7
1414A4[1]	4.0	4.0	4.0	—	—	—	4.75	2.00	3.64	5.50	1.31	4.31	4.31	1.50	3.00	—	—	—	3
1414C4[1]	6.0	4.0	4.0	4.88	2.88	3.51	6.75	2.00	3.64	7.50	1.31	6.31	4.31	1.50	3.00	0.31	0.56	0.56	4
1414E	6.0	6.0	4.0	4.88	4.88	3.51	6.75	4.00	3.64	7.50	2.88	6.31	6.31	2.50	5.00	0.31	0.56	0.56	5
1414I	10.0	8.0	4.0	8.75	6.88	3.51	10.75	6.00	3.64	11.50	4.00	10.31	8.31	1.00	7.00	0.25	0.63	0.56	10
1414K	120	10.0	5.0	10.75	8.88	4.51	12.75	8.00	4.64	13.50	6.00	12.31	10.31	1.00	9.00	0.25	0.63	0.56	13
1414M6	14.0	12.0	6.0	12.75	10.88	5.51	14.75	10.00	5.64	15.50	8.00	14.31	12.31	1.00	11.00	0.25	0.63	0.56	19
1414O6	16.0	14.0	6.0	14.75	12.88	5.51	16.75	12.00	5.64	17.50	10.00	16.31	14.31	1.00	13.00	0.25	0.63	0.56	23
1414M8	14.0	12.0	8.0	12.75	10.88	7.51	14.75	10.00	7.64	15.50	8.00	14.31	12.31	1.00	11.00	0.25	0.63	0.56	20
1414O10	16.0	14.0	10.0	14.75	12.88	9.51	16.75	12.00	9.64	17.50	10.00	16.31	14.31	1.00	13.00	0.25	0.63	0.56	25

[1] Does not meet JIC requirements

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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Data Subject to change without notice

1414 N4 Series Enclosures - NEMA 12, 13, 4

Clamped, Lift Off Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in outdoor applications for full weather protection.

Standards

- UL 508 Type 3R, 4, 12 and 13
- CSA Type 3R, 4, 12 and 13
- **Complies with**
  - NEMA Type 3R, 4, and 12
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Body formed from 16 or 14 gauge steel. Covers are formed from 14 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Welded brackets provide for enclosure mounting.
- Lift off cover is secured with stainless steel clamps and screws.
- Oil resistant gaskets are permanently secured.
- All models larger than 4" x 4" include a removable 14 gauge inner panel
- Internal threaded weld studs are provided for mounting inner panels. A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized, finished in recoatable smooth ANSI 61 gray powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Filter fans...*see page* ***408-413***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***
- Swing panel...*see page* ***435***

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All dimensions in inches unless specified otherwise

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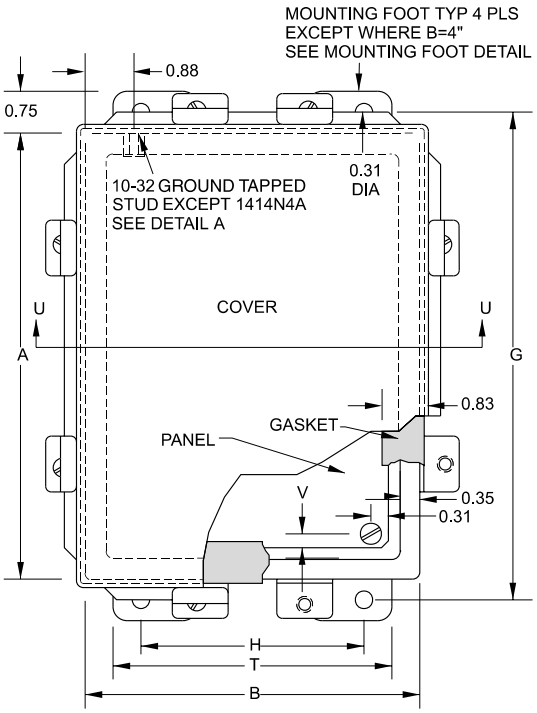
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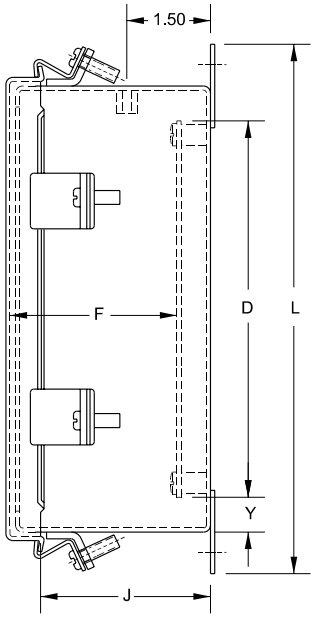
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1414 N4 Series Enclosures - NEMA 12, 13, 4

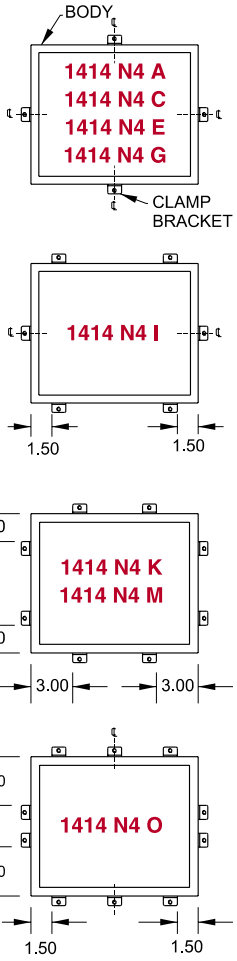
Clamped, Lift Off Cover

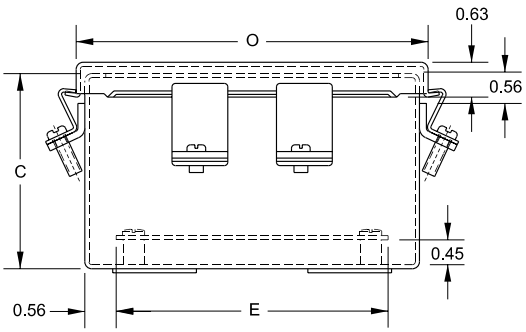


Front View

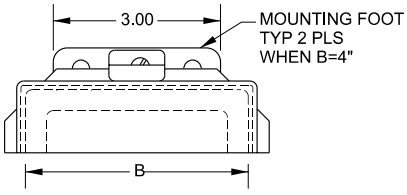


Side View

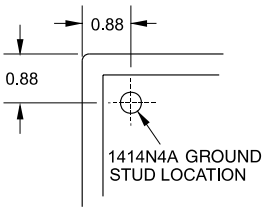




Bottom View



Mounting Foot Detail
When B=4



Ground stud location
for 1414N4A

Part No.	A	B	C	Panel Dimensions D	E	F	G	Centers H	J	L	Cover Dimensions	T	V	Y	Ship Wt. lbs
1414N4A[1]	4.0	4.0	3.0	—	—	—	4.75	2.00	2.60	5.50	4.31	4.31	3.00	—	—	2
1414N4C	6.0	4.0	3.0	4.88	2.88	2.50	6.75	2.00	2.60	7.50	6.31	4.31	3.00	0.31	0.56	3
1414N4G	8.0	6.0	3.5	6.75	4.88	3.00	8.75	4.00	3.10	9.50	8.31	6.31	5.00	0.25	0.63	6
1414N4E	6.0	6.0	4.0	4.88	4.88	3.50	6.75	4.00	3.60	7.50	6.31	6.31	5.00	0.31	0.56	6
1414N4I	10.0	8.0	4.0	8.75	6.88	3.50	10.75	6.00	3.60	11.50	10.31	8.31	7.00	0.25	0.63	10
1414N4K	12.0	10.0	5.0	10.75	8.88	4.50	12.75	8.00	4.60	13.50	12.31	10.31	9.00	0.25	0.63	15
1414N4M6	14.0	12.0	6.0	12.75	10.88	5.50	14.75	10.00	5.60	15.50	14.31	12.31	11.00	0.25	0.63	20
1414N4O6	16.0	14.0	6.0	14.75	12.88	5.50	16.75	12.00	5.60	17.50	16.31	14.31	13.00	0.25	0.63	26
1414N4M8	14.0	12.0	8.0	12.75	10.88	7.50	14.75	10.00	7.60	15.50	14.31	12.31	11.00	0.25	0.63	22
1414N4O10	16.0	14.0	10.0	14.75	12.88	9.50	16.75	12.00	9.60	17.50	16.31	14.31	13.00	0.25	0.63	30

[1] Panel not included

Technical references and DXF downloads available at www.hammfg.com

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1414 PH Series Enclosures - NEMA 12, 13

Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12, 13
- CSA Type 12, 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP54

Construction

- Body formed from 16 gauge or 14 gauge steel. Covers are formed from 14 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Welded brackets provide for enclosure mounting.
- Continuously hinged cover is secured with stainless steel clamps and plated steel screws.
- Oil resistant gaskets are permanently secured.
- Models larger than 4" x 4" include a removable 14 gauge inner panel.
- Internal threaded weld studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Filter fans...*see page* ***408-413***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***
- Swing panel...*see page* ***435***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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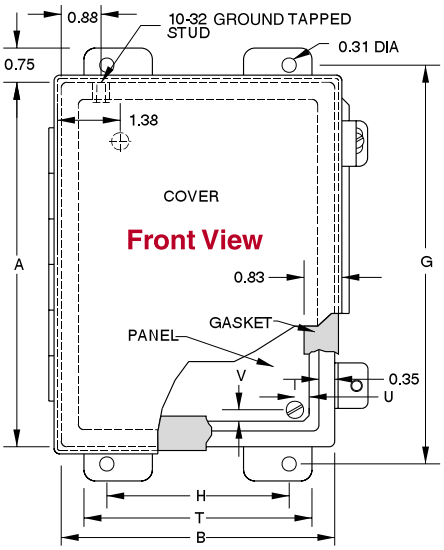
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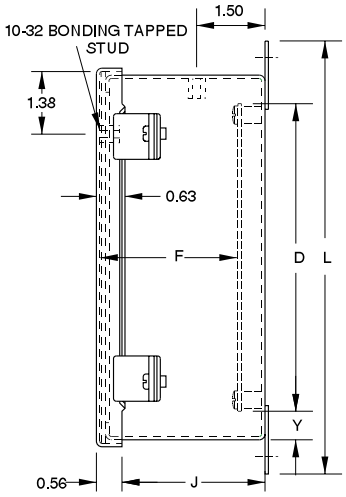
Canada: 519.822.2960 or 905.456.3770 USA: 716.630.7030

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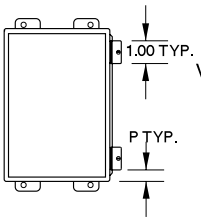
1414 PH Series Enclosures - NEMA 12, 13

Continuous Hinge, Clamped Cover

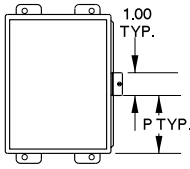




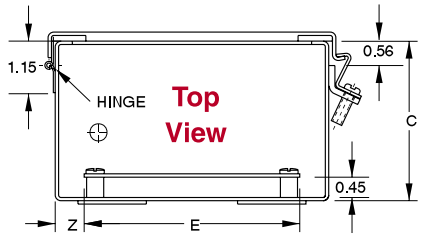
Side View

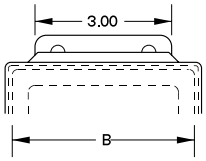


View showing clamp location when two clamps are used (where A=8 or more)

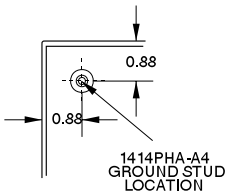


View showing clamp location when one clamp is used





Mounting Foot Detail When B=4



Part No.	Part No. Without Inner Panel	Panel Size A	B	C	D	E	F	G	H	J	L	Cover Dimensions P	T	U	V	Y	Z	Ship wt. w/Pnl	Ship wt. n/Pnl
—	**1414PHA[1]**	4	4	3.0	—	—	—	4.75	2	2.64	5.5	4.31	4.31	1.5	3	—	—	—	—	—	2
1414PHC[1]	**1414PHCLP[1]**	6	4	3.0	4.88	2.88	2.51	6.75	2	2.64	7.5	6.31	4.31	2.5	3	.31	.31	.56	.56	3	2
1414PHG	**1414PHGLP**	8	6	3.5	6.75	4.88	3.01	8.75	4	3.14	9.5	8.31	6.31	1.0	5	.31	.25	.63	.56	6	5
1414PHRG	**1414PHRGLP**	6	8	3.5	4.88	6.75	3.01	6.75	6	3.14	7.5	6.31	8.31	2.5	7	.25	.31	.56	.63	6	5
—	**1414PHA4[1]**	4	4	4.0	—	—	—	4.75	2	3.64	5.5	4.31	4.31	1.5	3	—	—	—	—	—	3
1414PHC4[1]	**1414PHC4LP[1]**	6	4	4.0	4.88	2.88	3.51	6.75	2	3.64	7.5	6.31	4.31	2.5	3	.31	.31	.56	.56	4	3
1414PHE	**1414PHELP**	6	6	4.0	4.88	4.88	3.51	6.75	4	3.64	7.5	6.31	6.31	2.5	5	.31	.31	.56	.56	5	4
1414PHH4	**1414PHH4LP**	8	8	4.0	6.75	6.88	3.51	8.75	6	3.64	9.5	8.31	8.31	1.0	7	.31	.25	.63	.56	8	7
1414PHI	**1414PHILP**	10	8	4.0	8.75	6.88	3.51	10.75	6	3.64	11.5	10.31	8.31	1.0	7	.31	.25	.63	.56	10	8
1414PHRI	**1414PHRILP**	8	10	4.0	6.88	8.75	3.51	8.75	8	3.64	9.5	8.31	10.31	1.0	9	.25	.31	.56	.63	10	8
1414PHKC4	**1414PHKC4LP**	12	6	4.0	10.75	4.88	3.51	12.75	4	3.64	13.5	12.31	6.31	1.0	5	.31	.25	.63	.56	10	8
1414PHK	**1414PHKLP**	12	10	5.0	10.75	8.88	4.51	12.75	8	4.64	13.5	12.31	10.31	1.0	9	.31	.25	.63	.56	13	10
1414PHRK	**1414PHRKLP**	10	12	5.0	8.88	10.75	4.51	10.75	10	4.64	11.5	10.31	12.31	1.0	11	.25	.31	.56	.63	13	12
1414PHG6	**1414PHG6LP**	8	6	6.0	6.75	4.88	5.51	8.75	4	5.64	9.5	8.31	6.31	1.0	5	.31	.25	.63	.56	8	7
1414PHI6	**1414PHI6LP**	10	8	6.0	8.75	6.88	5.51	10.75	6	5.64	11.5	10.31	8.31	1.0	7	.31	.25	.63	.56	12	10
1414PHJ6	**1414PHJ6LP**	10	10	6.0	8.75	8.88	5.51	10.75	8	5.64	11.5	10.31	10.31	1.0	9	.31	.25	.63	.56	14	12
1414PHL6	**1414PHL6LP**	12	12	6.0	10.75	10.88	5.51	12.75	10	5.64	13.5	12.31	12.31	1.0	11	.31	.25	.63	.56	17	15
1414PHMH6	**1414PHMH6LP**	14	8	6.0	12.75	6.88	5.51	14.75	6	5.64	15.5	14.31	8.31	1.0	7	.31	.25	.63	.56	12	10
1414PHM6	**1414PHM6LP**	14	12	6.0	12.75	10.88	5.51	14.75	10	5.64	15.5	14.31	12.31	1.0	11	.31	.25	.63	.56	19	17
1414PHRM6	**1414PHRM6LP**	12	14	6.0	10.88	12.75	5.51	12.75	12	5.64	13.5	12.31	14.31	1.0	13	.25	.31	.56	.63	19	17
1414PHN6	**1414PHN6LP**	16	10	6.0	14.75	8.88	5.51	16.75	8	5.64	17.5	16.31	10.31	1.0	9	.31	.25	.63	.56	18	15
1414PHO6	**1414PHO6LP**	16	14	6.0	14.75	12.88	5.51	16.75	12	5.64	17.5	16.31	14.31	1.0	13	.31	.25	.63	.56	23	21
1414PHRO6	**1414PHRO6LP**	14	16	6.0	12.88	14.75	5.51	14.75	14	5.64	15.5	14.31	16.31	1.0	15	.25	.31	.56	.63	23	21
1414PHK8	**1414PHK8LP**	12	10	8.0	10.75	8.88	7.51	12.75	8	7.64	13.5	12.31	10.31	1.0	9	.31	.25	.63	.56	18	15
1414PHM8	**1414PHM8LP**	14	12	8.0	12.75	10.88	7.51	14.75	10	7.64	15.5	14.31	12.31	1.0	11	.31	.25	.63	.56	20	18
1414PHO8	**1414PHO8LP**	16	14	8.0	14.75	12.88	7.51	16.75	12	7.64	17.5	16.31	14.31	1.0	13	.31	.25	.63	.56	25	22
1414PHO10	**1414PHO10LP**	16	14	10.0	14.75	12.88	9.51	16.75	12	9.64	17.5	16.31	14.31	1.0	13	.31	.25	.63	.56	26	23

[1] Does not meet JIC requirements

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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Data Subject to change without notice

1414 N4 PH Series Enclosures - NEMA 12, 13, 4

Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in outdoor applications for full weather protection.

Standards

- UL 508 Type 3R, 4, 12 and 13
- CSA Type 3R, 4, 12 and 13
- **Complies with**
  - NEMA Type 3R, 4, 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP66

Construction

- Body formed from 16 or 14 gauge steel. Covers are formed from 14 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Welded brackets provide for enclosure mounting.
- Continuous hinged cover is secured with stainless steel clamps and screws.
- Stainless steel continuous hinge on door may be removed by pulling the stainless steel hinge pin.
- Oil resistant gaskets are permanently secured.
- All models larger than 4" x 4" include a removable 14 gauge inner panel.
- Internal threaded weld studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized, finished in recoatable smooth ANSI 61 gray powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Filter fans...*see page* ***408-413***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***
- Swing panel...*see page* ***435***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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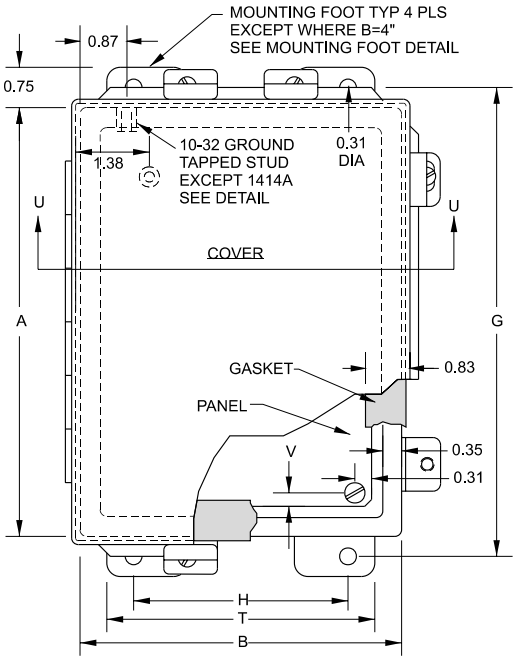
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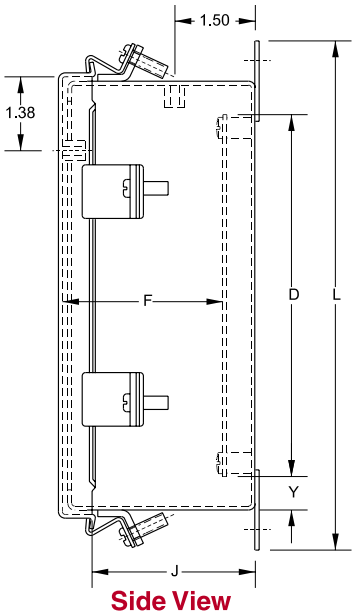
Data Subject to change without notice

1414 N4 PH Series Enclosures - NEMA 12, 13, 4

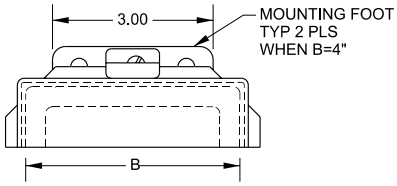
Continuous Hinge, Clamped Cover



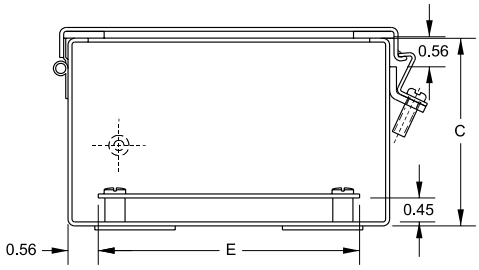
Front View



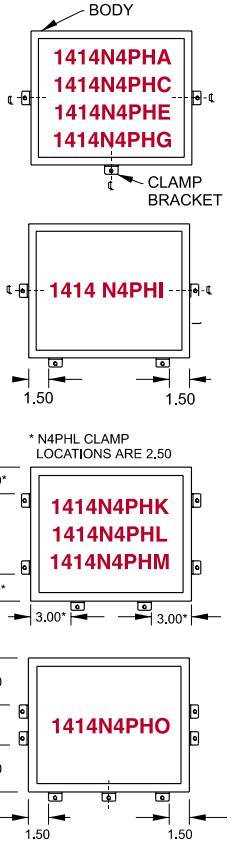
Side View

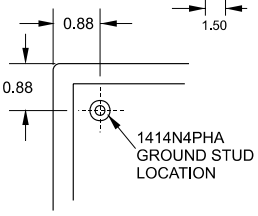


Mounting Foot Detail
When B=4



Cross Section U-U





Ground stud location
for 1414N4PHA

Part No.	Part No. without Inner Panel	Panel Dimensions A	B	C	D	E	F	G	H	J	L	Cover Dimensions		T	V	Y	Ship wt. with Panel	Ship wt. w/o Panel
—	**1414N4PHA[1]**	4	4	3.0	—	—	—	4.75	2	2.6	5.5	4.31	4.31	3	—	—	—	1
1414N4PHC[1]	**1414N4PHCLP[1]**	6	4	3.0	4.88	2.88	2.5	6.75	2	2.6	7.5	6.31	4.31	3	.31	.56	3	2
1414N4PHG	**1414N4PHGLP**	8	6	3.5	6.75	4.88	3.0	8.75	4	3.1	9.5	8.31	6.31	5	.25	.63	6	5
1414N4PHE	**1414N4PHELP**	6	6	4.0	4.88	4.88	3.5	6.75	4	3.6	7.5	6.31	6.31	5	.31	.56	5	4
1414N4PHI	**1414N4PHILP**	10	8	4.0	8.75	6.88	3.5	10.75	6	3.6	11.5	10.31	8.31	7	.25	.63	10	9
1414N4PHI6	**1414N4PHI6LP**	10	8	6.0	8.75	6.88	5.5	10.75	6	5.6	11.5	10.31	8.31	7	.25	.63	12	11
1414N4PHK	**1414N4PHKLP**	12	10	5.0	10.75	8.88	4.5	12.75	8	4.6	13.5	12.31	10.31	9	.25	.63	15	14
1414N4PHL6	**1414N4PHL6LP**	12	12	6.0	10.75	10.88	5.5	12.75	10	5.6	13.5	12.31	12.31	11	.25	.63	25	24
1414N4PHM6	**1414N4PHM6LP**	14	12	6.0	12.75	10.88	5.5	14.75	10	5.6	15.5	14.31	12.31	11	.25	.63	21	20
1414N4PHO6	**1414N4PHO6LP**	16	14	6.0	14.75	12.88	5.5	16.75	12	5.6	17.5	16.31	14.31	13	.25	.63	26	24
1414N4PHM8	**1414N4PHM8LP**	14	12	8.0	12.75	10.88	7.5	14.75	10	7.6	15.5	14.31	12.31	11	.25	.63	22	20
1414N4PHO10	**1414N4PHO10LP**	16	14	10.0	14.75	12.88	9.5	16.75	12	9.6	17.5	16.31	14.31	13	.25	.63	28	26

[1] Does not meet JIC requirements

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1414 SC Series Enclosures - NEMA 12, 13

Lift Off, Screw Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12 and 13
- CSA Type 12 and 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP54

Construction

- Body formed from 16 gauge or 14 gauge steel. Covers are formed from 14 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Welded brackets provide for enclosure mounting.
- Cover is secured with captive, plated steel screws, threaded into sealed wells.
- Oil resistant gaskets are permanently secured.
- Models larger than 4" x 4" include a removable 14 gauge inner panel.
- Internal threaded weld studs are provided for mounting inner panels.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***
- Swing panel...*see page* ***435***

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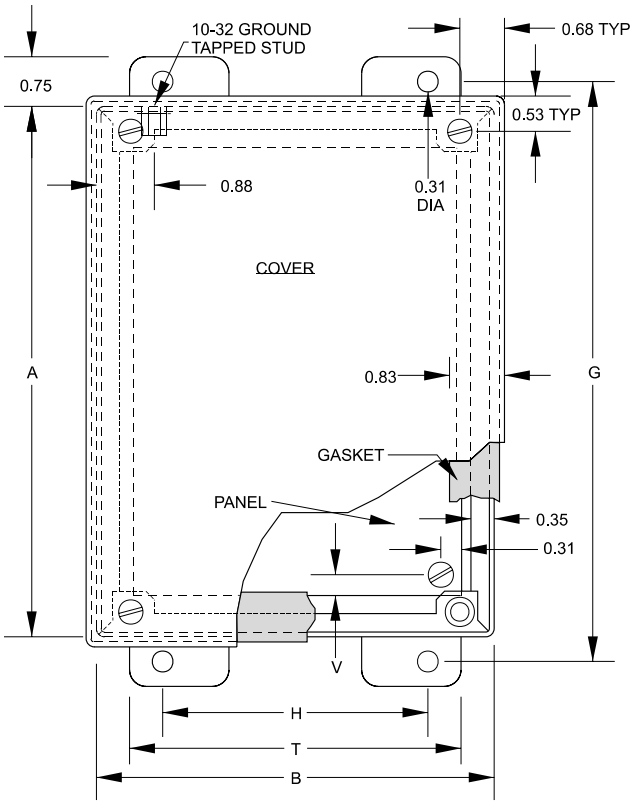
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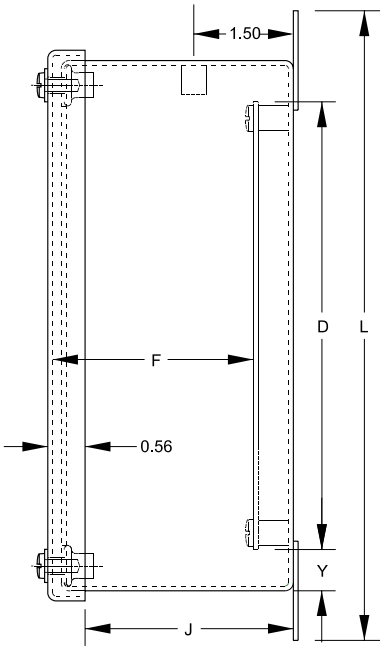
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1414 SC Series Enclosures - NEMA 12, 13

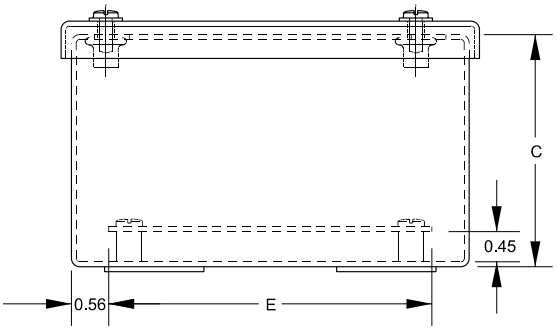
Lift Off, Screw Cover



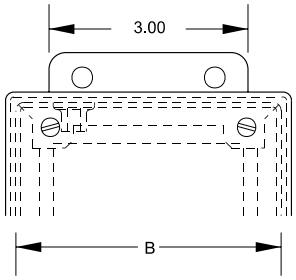
Front View



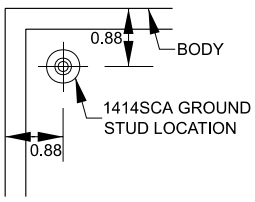
Side View



Bottom View



Mounting Detail When B=4



Part No.	A	B	C	Panel Size D	Panel Size E	Centers F	Centers G	Centers H	J	L	T	Cover Dimensions		V	Y	Ship Wt. lbs
1414SCA[1]	4	4	3.0	—	—	—	4.75	2	2.64	5.5	3	4.31	4.31	—	—	2
1414SCC[1]	6	4	3.0	4.87	2.87	2.51	6.75	2	2.64	7.5	3	6.31	4.31	0.31	0.56	3
1414SCG	8	6	3.5	6.75	4.87	3.01	8.75	4	3.14	9.5	5	8.31	6.31	0.25	0.63	6
1414SCE	6	6	4.0	4.87	4.87	3.51	6.75	4	3.64	7.5	5	6.31	6.31	0.31	0.56	5
1414SCI	10	8	4.0	8.75	6.87	3.51	10.75	6	3.64	11.5	7	10.31	8.31	0.25	0.63	10
1414SCK	12	10	5.0	10.75	8.87	4.51	12.75	8	4.64	13.5	9	12.31	10.31	0.25	0.63	14
1414SCM6	14	12	6.0	12.75	10.87	5.51	14.75	10	5.64	15.5	11	14.31	12.31	0.25	0.63	19
1414SCO6	16	14	6.0	14.75	12.87	5.51	16.75	12	5.64	17.5	13	16.31	14.31	0.25	0.63	24
1414SCM8	14	12	8.0	12.75	10.87	7.51	14.75	10	7.64	15.5	11	14.31	12.31	0.25	0.63	22
1414SCO10	16	14	10.0	14.75	12.87	9.51	16.75	12	9.64	17.5	13	16.31	14.31	0.25	0.63	29

[1] Does not meet JIC requirements

Technical references and DXF downloads available at www.hammfg.com

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1436/1438 Series Junction Boxes - NEMA 12, 13

Lift Off, Screw Cover



1436 Standard Depth



1438 Extra Depth

Application

- Designed for use as instrument enclosures, electrical junction boxes or terminal wiring enclosures.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12 and 13
- CSA Type 12 and 13
- **Complies with**
  - NEMA Type 12 and 13
  - IEC 60529, IP54

Construction

- Formed from 14 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Welded brackets provide for enclosure mounting.
- Lift off cover is secured with captive, plated steel screws, and supported on internal hinges except as noted on charts at bottom and right.
- Cover screws fasten into threaded, sealed wells.
- Oil resistant gaskets are permanently secured.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating.

Standard Depth Series (1436)

Part No.	A	B	C	Centers D	Centers E	Overall Dimensions L	Overall Dimensions W	Ship Wt. lbs
1436A[1]	3.50	3.25	2.75	2.38	4.00	4.50	3.56	2
1436B[1]	5.75	3.25	2.75	2.38	6.25	6.75	3.56	2
1436C[1]	8.00	3.25	2.75	2.38	8.50	9.00	3.56	3
1436D[1]	10.25	3.25	2.75	2.38	10.75	11.25	3.56	4
1436F	7.25	6.25	3.00	5.38	7.75	8.25	6.56	5
1436H	9.50	6.25	3.00	5.38	10.00	10.50	6.56	5
1436K	9.50	8.50	3.00	7.63	10.00	10.50	8.81	7
1436O	11.75	8.50	3.00	7.63	12.25	12.75	8.81	8
1436S	11.75	10.75	3.00	9.88	12.25	12.75	11.06	9
1436V	14.00	10.75	3.00	9.88	14.50	15.00	11.06	11
1436X	14.00	13.00	3.00	12.13	14.50	15.00	13.31	12
1436-30	16.25	13.00	3.00	12.13	16.75	17.25	13.31	14
1436-36	16.25	15.25	3.00	14.38	16.75	17.25	15.56	16
1436-42	18.50	15.25	3.00	14.38	19.00	19.50	15.56	18

[1] Not hinged

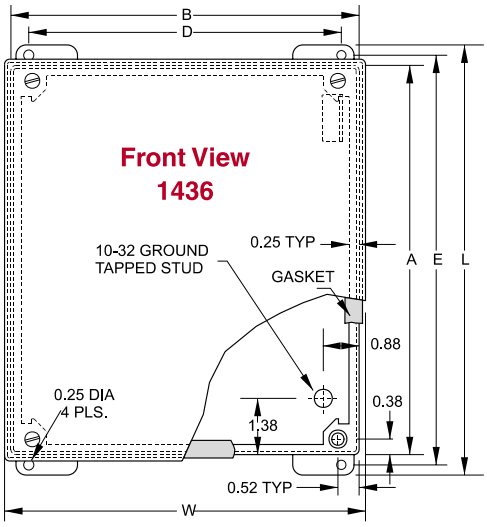
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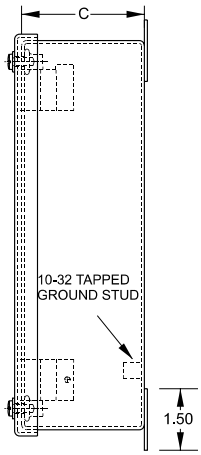
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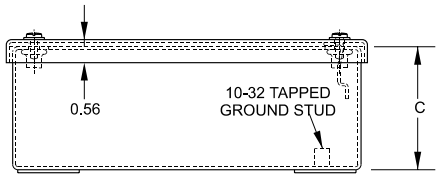
1436/1438 Series Junction Boxes - NEMA 12, 13

Lift Off, Screw Cover

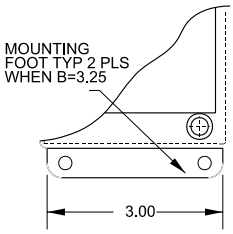




Side View - 1436

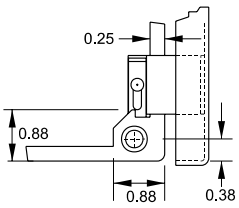


Bottom View - 1436

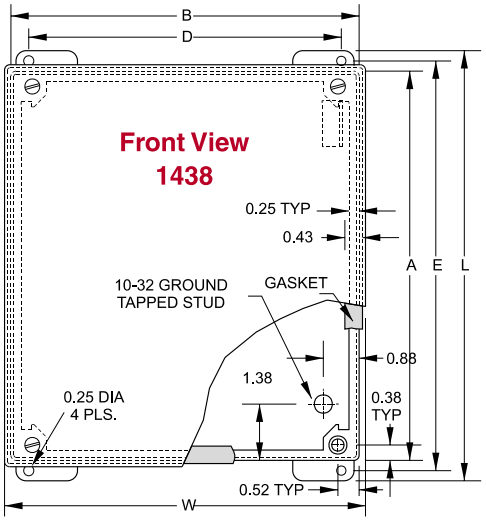


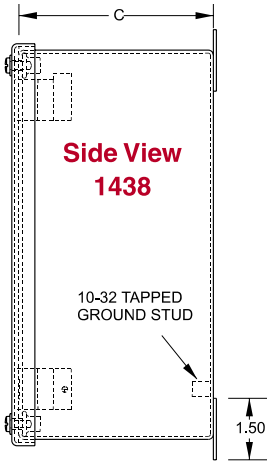
Hinge Detail

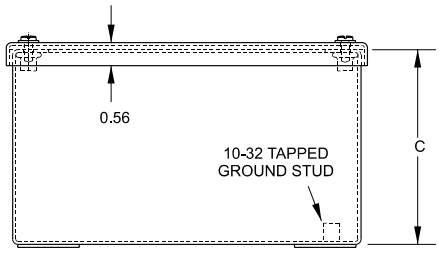
Retractable pin allows door to be mounted on left or right side.



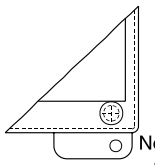
Note: 1436 A,B,C,D not hinged







Bottom View - 1438



Note: 1438 A not hinged

Extra Deep Series (1438)

Part No.	A	B	C	Centers D	Centers E	Overall Dimensions L	Overall Dimensions W	Ship Wt. lbs
1438A[1]	4.00	4.00	4.75	3.13	4.50	5.00	4.31	3
1438B	6.00	4.00	4.75	3.13	6.50	7.00	4.31	4
1438C	8.00	4.00	4.75	3.13	8.50	9.00	4.31	5
1438D	10.00	4.00	4.75	3.13	10.50	11.00	4.31	5
1438F	7.25	6.25	4.75	5.38	7.75	8.25	6.56	5
1438H	9.50	6.25	4.75	5.38	10.00	10.50	6.56	5
1438K	9.50	8.50	4.75	7.63	10.00	10.50	8.81	7
1438O	11.75	8.50	4.75	7.63	12.25	12.75	8.81	8
1438S	11.75	10.75	4.75	9.88	12.25	12.75	11.06	9
1438V	14.00	10.75	4.75	9.88	14.50	15.00	11.06	11
1438X	14.00	13.00	4.75	12.13	14.50	15.00	13.31	12
1438-30	16.25	13.00	4.75	12.13	16.75	17.25	13.31	14
1438-36	16.25	15.25	4.75	14.38	16.75	17.25	15.56	16
1438-42	18.50	15.25	4.75	14.38	19.00	19.50	15.56	18

[1] Not hinged

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1418J Series - NEMA 12



Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12
- **Complies with**
  - NEMA Type 12
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP54

Construction

- Formed from 14 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Door and body stiffeners are provided in the larger enclosures for extra rigidity.
- Welded brackets provide for enclosure mounting.
- Continuously hinged cover is secured with plated screws, threaded into sealed wells.
- Oil resistant gaskets are permanently secured.
- A removable 12 gauge inner panel is included.
- Collar studs are provided for mounting inner panels.
- A grounding stud is provided in the enclosure and a bonding stud is provided on the door.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Filter fans...*see page* ***408-413***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***437***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***
- Swing panel...*see page* ***435***

Technical references and DXF downloads available at www.hammfg.com

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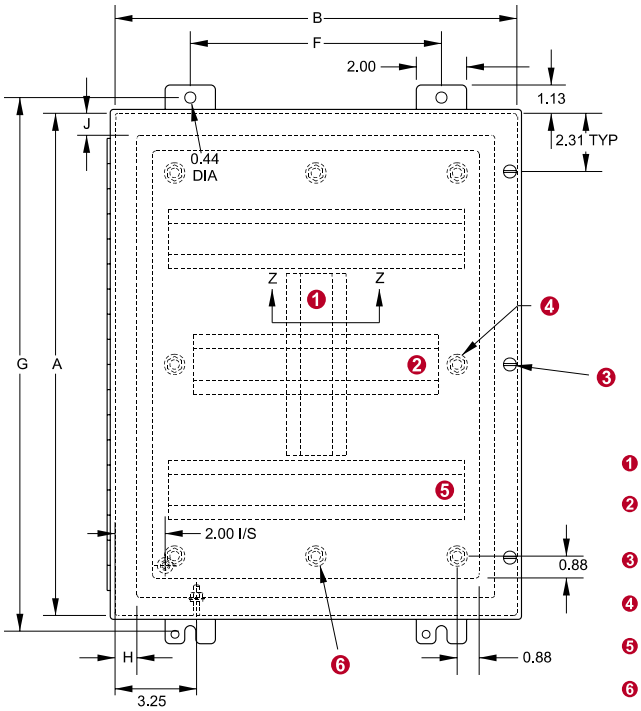
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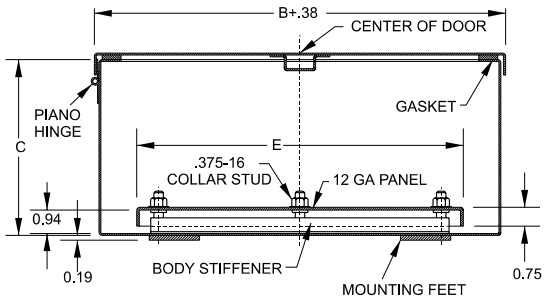
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1418J Series - NEMA 12

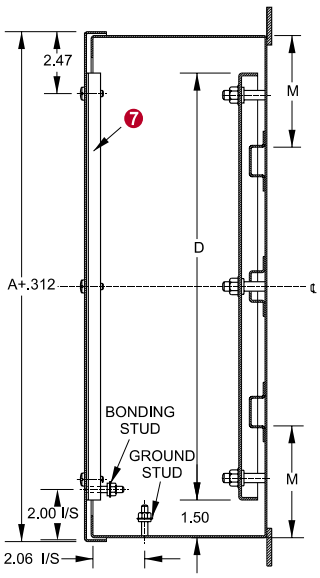


Front View

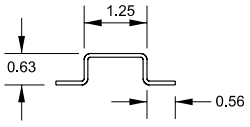


Top View

1. Vertical body stiffener req'd on M only
2. Omit if center body stiffener if A is less than 41"
3. Omit if A is less than 31"
4. Omit 2 center studs if A is less than 31"
5. Omit body stiffeners if B is less than 29"
6. Omit 2 middle studs if B is less than 31"
7. Omit door stiffener if A or B is 24" or less



Side View



Section Z-Z

Part No.	A	B	C	Panel Dimensions D	E	Centers F	G	H	J	Ship Wt. lbs
1418JB7	16	12	7	13	9	6	17.25	0.88	0.50	30
1418JC7	20	16	7	17	13	10	21.25	0.88	0.88	38
1418JD7	20	20	7	17	17	14	21.25	0.88	0.50	45
1418JE7	24	20	7	21	17	14	25.25	0.88	0.50	54
1418JJ7	24	24	7	21	21	18	25.25	0.88	0.50	63
1418JF7	30	20	7	27	17	14	31.25	0.88	0.50	70
1418JK7	30	24	7	27	21	18	31.25	0.88	0.50	78
1418JL7	36	24	7	33	21	18	37.25	0.88	0.50	90
1418JC9	20	16	9	17	13	10	21.25	0.88	0.50	42
1418JD9	20	20	9	17	17	14	21.25	0.88	0.50	45
1418JE9	24	20	9	21	17	14	25.25	0.88	0.50	60
1418JJ9	24	24	9	21	21	18	25.25	0.88	0.50	67
1418JK9	30	24	9	27	21	18	31.25	0.88	0.50	85
1418JF9	30	20	9	27	17	14	31.25	0.88	0.50	70
1418JM9	36	30	9	33	27	24	37.25	1.38	1.38	120
1418JL9	36	24	9	33	21	18	37.25	0.88	0.50	100
1418JO9[1]	42	30	9	39	27	24	43.25	1.38	1.38	137
1418JP9[1]	42	36	9	39	33	30	43.25	1.38	1.38	165
1418JJ11	24	24	11	21	21	18	25.25	0.88	0.50	73
1418JL11	36	24	11	33	21	18	37.25	0.88	0.50	107
1418JS11[1]	48	36	11	45	33	30	49.25	1.38	1.38	187
1418JK13	30	24	13	27	21	18	31.25	0.88	0.50	94
1418JM13	36	30	13	33	27	24	37.25	1.38	1.38	131

[1] Does not meet JIC requirements

When A=	M=
30	7.00
36	9.00
42	9.88
48	11.38

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Eclipse Series - NEMA 4, 12

Single Door Enclosures

Panel Sold Separately



Single Door with 3-point latching handle



Single Door with quarter turns



Single Door with 3-point latching handle and quarter turns

Application

- Designed to enclose electrical and/or electronic equipment and protect against harsh, industrial environments for wallmount applications.
- Impressive styling features like hidden hinges, attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, and 12
- CSA Type 3R, 4, and 12
- **Complies with**
  - NEMA Type 3R, 4, and 12
  - IEC 60529, IP66

Construction

- Formed 14 or 16 gauge steel.
- Smooth, continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure
- Hinges are constructed from 304 stainless steel.
- Hinge pins are stainless steel.
- Quarter turn latch and 3 point handle (key lockable) are zinc diecast with black epoxy finish.

Finish

- Cover and enclosure are phosphatized and finished with a recoatable powder inside and out with choice of ANSI 61 smooth Gray (GY) or RAL7035 textured light gray (LG).
- RAL7032 textured beige (CG) versions with gland plates are available as non-stock items.

Accessories

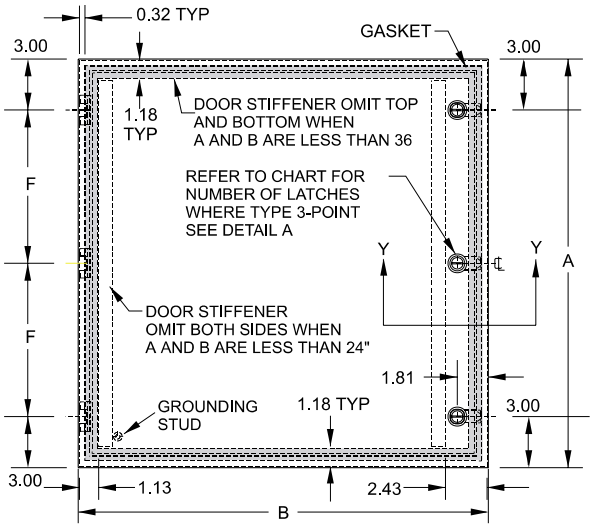
- Air conditioners...*see page* ***387-405***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- DIN rails...*see page* ***29***
- DIN rail mounting kit...*see page* ***29***
- Door stop kit...*see page* ***447***
- Filter fans...*see page* ***408-413***
- Gland Plates...*see page* ***441***
- Heaters...*see page* ***418-420***
- Handles...*see page* ***30***
- Inner panel...*see page* ***28***
- Quarter turn inserts and keys ...*see page* ***30***
- Literature pocket...*see page* ***451***
- Mounting foot kit...*see page* ***30***
- Swing frame...*see page* ***29***
- Swing panel...*see page* ***28***
- Replacement hinge pins...*see page* ***28***
- Replacement quarter turn assemblies...*see page* ***30***
- Thermostats...*see page* ***421***
- Touch up paint...*see page* ***450***
- UL/CSA approved hardware kit ...*see page* ***430***
- Padlock Adapter (EPA)...*see page* ***431***

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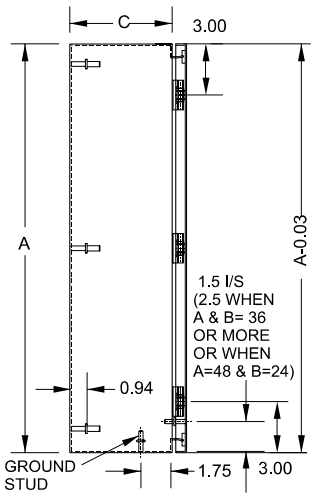
All dimensions in inches unless specified otherwise

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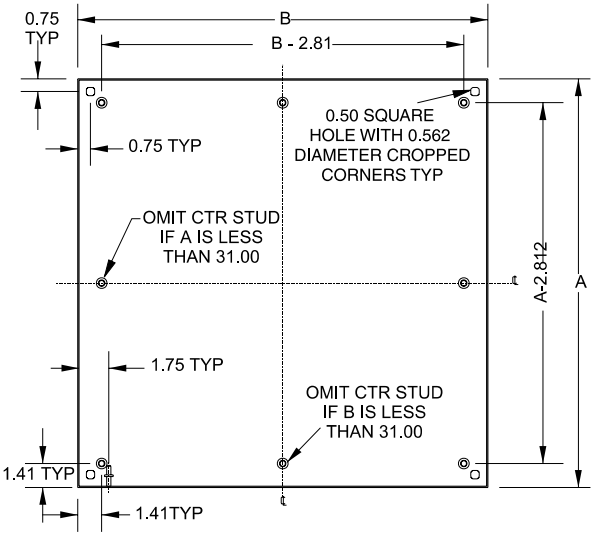
Eclipse Series - NEMA 4, 12
Single Door Enclosures



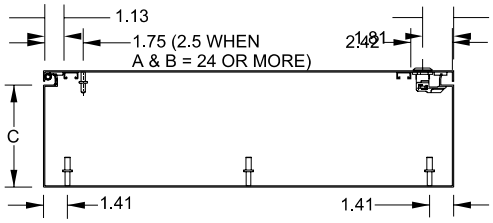
Front View



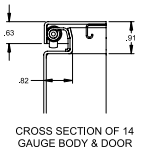
Side View



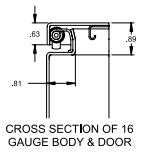
Section A-A



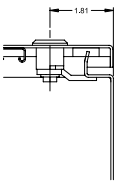
Bottom View



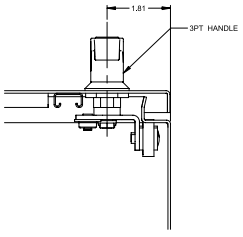
CROSS SECTION OF 14 GAUGE BODY & DOOR



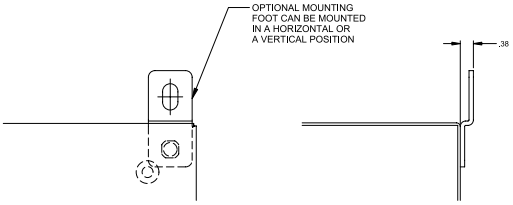
CROSS SECTION OF 16 GAUGE BODY & DOOR

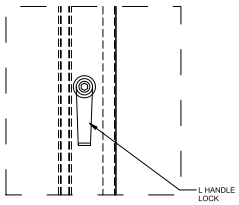


Section B-B
QUARTER TURN LOCK

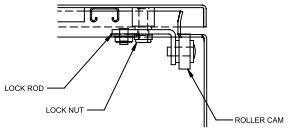


3pt Latch Handle





3pt Latch Handle



3pt Latch Cams

Refer to part number and dimension chart on previous page

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Eclipse Series - NEMA 4, 12

Single Door Enclosures

Part No. (ANSI 61 Gray)	Part No. (RAL7035 Light Gray)	Overall Dimensions A	B	C	Door/ Body Gauge	Latches Qty	Type	Opt. Panel Part No.	Panel Size D	E	# Hinges	F	Ship Wt. Lbs.
EN4SD12126GY	**EN4SD12126LG**	12	12	6	16	1	Qtr Turn	EP1212	10.2	10.2	2	6	12
EN4SD12246GY	**EN4SD12246LG**	12	24	6	16	1	Qtr Turn	EP1224	10.2	22.2	2	18	24
EN4SD16126GY	**EN4SD16126LG**	16	12	6	16	1	Qtr Turn	EP1612	14.2	10.2	2	10	16
EN4SD16166GY	**EN4SD16166LG**	16	16	6	16	1	Qtr Turn	EP1616	14.2	14.2	2	10	19
EN4SD16206GY	**EN4SD16206LG**	16	20	6	16	1	Qtr Turn	EP1620	14.2	18.2	2	10	22
EN4SD20126GY	**EN4SD20126LG**	20	12	6	16	1	Qtr Turn	EP2012	18.2	10.2	2	14	20
EN4SD20166GY	**EN4SD20166LG**	20	16	6	16	1	Qtr Turn	EP2016	18.2	14.2	2	14	22
EN4SD20206GY	**EN4SD20206LG**	20	20	6	16	1	Qtr Turn	EP2020	18.2	18.2	2	14	26
EN4SD20246GY	**EN4SD20246LG**	20	24	6	16	1	Qtr Turn	EP2412	22.2	10.2	2	14	32
EN4SD24126GY	**EN4SD24126LG**	24	12	6	16	1	Qtr Turn	EP2412	22.2	10.2	2	18	24
EN4SD24166GY	**EN4SD24166LG**	24	16	6	16	1	Qtr Turn	EP2416	22.2	14.2	2	18	26
EN4SD24206GY	**EN4SD24206LG**	24	20	6	16	1	Qtr Turn	EP2420	22.2	18.2	2	18	30
EN4SD24246GY	**EN4SD24246LG**	24	24	6	14	2	Qtr Turn	EP2424	22.2	22.2	2	18	37
EN4SD30166GY	**EN4SD30166LG**	30	16	6	14	2	Qtr Turn	EP3016	28.2	14.2	3	12	35
EN4SD30206GY	**EN4SD30206LG**	30	20	6	14	2	Qtr Turn	EP3020	28.2	18.2	3	12	38
EN4SD30246GY	**EN4SD30246LG**	30	24	6	14	2	Qtr Turn	EP3024	28.2	22.2	3	12	40
EN4SD36246GY	**EN4SD36246LG**	36	24	6	14	2	Qtr Turn	EP3624	34.2	22.2	3	15	52
EN4SD36306GY	**EN4SD36306LG**	36	30	6	14	2	Qtr Turn	EP3630	34.2	28.2	3	15	60
EN4SD12248GY	**EN4SD12248LG**	12	24	8	16	1	Qtr Turn	EP1224	10.2	22.2	2	6	25
EN4SD16128GY	**EN4SD16128LG**	16	12	8	16	1	Qtr Turn	EP1612	14.2	10.2	2	10	16
EN4SD16168GY	**EN4SD16168LG**	16	16	8	16	1	Qtr Turn	EP1616	14.2	14.2	2	10	21
EN4SD16208GY	**EN4SD16208LG**	16	20	8	16	1	Qtr Turn	EP1620	14.2	18.2	2	10	25
EN4SD20128GY	**EN4SD20128LG**	20	12	8	16	1	Qtr Turn	EP2012	18.2	10.2	2	14	22
EN4SD20168GY	**EN4SD20168LG**	20	16	8	16	1	Qtr Turn	EP2016	18.2	14.2	2	14	25
EN4SD20208GY	**EN4SD20208LG**	20	20	8	16	1	Qtr Turn	EP2020	18.2	18.2	2	14	28
EN4SD20248GY	**EN4SD20248LG**	20	24	8	16	1	Qtr Turn	EP2024	18.2	22.2	2	14	32
EN4SD24128GY	**EN4SD24128LG**	24	12	8	16	1	Qtr Turn	EP2412	22.2	10.2	2	18	25
EN4SD24168GY	**EN4SD24168LG**	24	16	8	16	1	Qtr Turn	EP2416	22.2	14.2	2	18	26
EN4SD24208GY	**EN4SD24208LG**	24	20	8	16	1	Qtr Turn	EP2420	22.2	18.2	2	18	32
EN4SD24248GY	**EN4SD24248LG**	24	24	8	14	2	Qtr Turn	EP2424	22.2	22.2	2	18	40
EN4SD24308GY	**EN4SD24308LG**	24	30	8	14	2	Qtr Turn	EP2430	22.2	28.2	2	18	48
EN4SD30128GY	**EN4SD30128LG**	30	12	8	14	2	Qtr Turn	EP3012	28.2	10.2	3	12	34
EN4SD30168GY	**EN4SD30168LG**	30	16	8	14	2	Qtr Turn	EP3016	28.2	14.2	3	12	40
EN4SD30208GY	**EN4SD30208LG**	30	20	8	14	2	Qtr Turn	EP3020	28.2	18.2	3	12	42
EN4SD30248GY	**EN4SD30248LG**	30	24	8	14	2	Qtr Turn	EP3024	28.2	22.2	3	12	46
EN4SD30308GY	**EN4SD30308LG**	30	30	8	14	2	Qtr Turn	EP3030	28.2	28.2	3	12	67
EN4SD30368GY	**EN4SD30368LG**	30	36	8	14	2	Qtr Turn	EP3036	28.2	34.2	3	12	77
EN4SD36248GY	**EN4SD36248LG**	36	24	8	14	2	Qtr Turn	EP3624	34.2	22.2	3	15	55
EN4SD36308GY	**EN4SD36308LG**	36	30	8	14	2	Qtr Turn	EP3630	34.2	28.2	3	15	77
EN4SD36368GY	**EN4SD36368LG**	36	36	8	14	2	Qtr Turn	EP3636	34.2	34.2	3	15	94
EN4SD42248GY	**EN4SD42248LG**	42	24	8	14	1	3-point	EP4224	40.2	22.2	4	12	80
EN4SD42308GY	**EN4SD42308LG**	42	30	8	14	1	3-point	EP4230	40.2	28.2	4	12	95
EN4SD42368GY	**EN4SD42368LG**	42	36	8	14	1	3-point	EP4236	40.2	34.2	4	12	105
EN4SD48248GY	**EN4SD48248LG**	48	24	8	14	1	3-point	EP4824	46.2	22.2	4	14	110
EN4SD48308GY	**EN4SD48308LG**	48	30	8	14	1	3-point	EP4830	46.2	28.2	4	14	115
EN4SD48368GY	**EN4SD48368LG**	48	36	8	14	1	3-point	EP4836	46.2	34.2	4	14	120
EN4SD60368GY	**EN4SD60368LG**	60	36	8	14	1	3-point	EP6036	58.2	34.2	4	18	150
EN4SD161210GY	**EN4SD161210LG**	16	12	10	16	1	Qtr. Turn	EP1612	14.2	10.2	2	10	18
EN4SD161610GY	**EN4SD161610LG**	16	16	10	16	1	Qtr. Turn	EP1616	14.2	14.2	2	10	23
EN4SD162010GY	**EN4SD162010LG**	16	20	10	16	1	Qtr. Turn	EP1620	14.2	18.2	2	10	28
EN4SD201610GY	**EN4SD201610LG**	20	16	10	16	1	Qtr. Turn	EP2016	18.2	14.2	2	14	28
EN4SD202010GY	**EN4SD202010LG**	20	20	10	16	1	Qtr. Turn	EP2020	18.2	18.2	2	14	31
EN4SD202410GY	**EN4SD202410LG**	20	24	10	16	1	Qtr. Turn	EP2024	18.2	22.2	2	14	36
EN4SD241210GY	**EN4SD241210LG**	24	12	10	16	1	Qtr Turn	EP2412	22.2	10.2	2	18	26
EN4SD241610GY	**EN4SD241610LG**	24	16	10	16	1	Qtr. Turn	EP2416	22.2	14.2	2	18	30
EN4SD242010GY	**EN4SD242010LG**	24	20	10	16	1	Qtr. Turn	EP2420	22.2	18.2	2	18	36

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Eclipse Series - NEMA 4, 12

Single Door Enclosures

Part No. (ANSI 61 Gray)	Part No. (RAL7035 Light Gray)	Overall Dimensions A	B	C	Door/ Body Gauge	Latches Qty	Type	Opt. Panel Part No.	Panel Size D	E	# Hinges	F	Ship Wt. Lbs.
EN4SD242410GY	**EN4SD242410LG**	24	24	10	14	2	Qtr. Turn	EP2424	22.2	22.2	2	18	45
EN4SD243010GY	**EN4SD243010LG**	24	30	10	14	2	Qtr. Turn	EP2430	22.2	28.2	2	18	53
EN4SD302010GY	**EN4SD302010LG**	30	20	10	14	2	Qtr. Turn	EP3020	28.2	18.2	3	12	47
EN4SD302410GY	**EN4SD302410LG**	30	24	10	14	2	Qtr. Turn	EP3024	28.2	22.2	3	12	53
EN4SD303010GY	**EN4SD303010LG**	30	30	10	14	2	Qtr. Turn	EP3030	28.2	28.2	3	12	75
EN4SD362410GY	**EN4SD362410LG**	36	24	10	14	2	Qtr. Turn	EP3624	34.2	22.2	3	15	70
EN4SD363010GY	**EN4SD363010LG**	36	30	10	14	2	Qtr. Turn	EP3630	34.2	28.2	3	15	84
EN4SD363610GY	**EN4SD363610LG**	36	36	10	14	2	Qtr. Turn	EP3636	34.2	34.2	3	15	100
EN4SD423010GY	**EN4SD423010LG**	42	30	10	14	1	3-point	EP4230	40.2	28.2	4	12	107
EN4SD423610GY	**EN4SD423610LG**	42	36	10	14	1	3-point	EP4236	40.2	34.2	4	12	117
EN4SD482410GY	**EN4SD482410LG**	48	24	10	14	1	3-point	EP4824	46.2	22.2	4	14	95
EN4SD483010GY	**EN4SD483010LG**	48	30	10	14	1	3-point	EP4830	46.2	28.2	4	14	120
EN4SD483610GY	**EN4SD483610LG**	48	36	10	14	1	3-point	EP4836	46.2	34.2	4	14	125
EN4SD603610GY	**EN4SD603610LG**	60	36	10	14	1	3-point	EP6036	58.2	34.2	4	18	150
EN4SD201612GY	**EN4SD201612LG**	20	16	12	16	1	Qtr Turn	EP2016	18.2	14.2	2	14	32
EN4SD202012GY	**EN4SD202012LG**	20	20	12	16	1	Qtr Turn	EP2020	18.2	18.2	2	14	34
EN4SD242012GY	**EN4SD242012LG**	24	20	12	16	1	Qtr Turn	EP2420	22.2	18.2	2	18	38
EN4SD242412GY	**EN4SD242412LG**	24	24	12	14	2	Qtr Turn	EP2424	22.2	22.2	2	18	47
EN4SD302412GY	**EN4SD302412LG**	30	24	12	14	2	Qtr Turn	EP3024	28.2	22.2	3	12	57
EN4SD303012GY	**EN4SD303012LG**	30	30	12	14	2	Qtr Turn	EP3030	28.2	28.2	3	12	80
EN4SD362412GY	**EN4SD362412LG**	36	24	12	14	2	Qtr Turn	EP3624	34.2	22.2	3	15	62
EN4SD363012GY	**EN4SD363012LG**	36	30	12	14	2	Qtr Turn	EP3630	34.2	28.2	3	15	91
EN4SD363612GY	**EN4SD363612LG**	36	36	12	14	2	Qtr Turn	EP3636	34.2	34.2	3	15	104
EN4SD423012GY	**EN4SD423012LG**	42	30	12	14	1	3-point	EP4230	40.2	28.2	4	12	111
EN4SD423612GY	**EN4SD423612LG**	42	36	12	14	1	3-point	EP4236	40.2	34.2	4	12	121
EN4SD482412GY	**EN4SD482412LG**	48	24	12	14	1	3-point	EP4824	46.2	22.2	4	14	98
EN4SD483612GY	**EN4SD483612LG**	48	36	12	14	1	3-point	EP4836	46.2	34.2	4	14	148
EN4SD603612GY	**EN4SD603612LG**	60	36	12	14	1	3-point	EP6036	58.2	34.2	4	18	165
EN4SD723012GY	**EN4SD723012LG**	72	30	12	14	2	Qtr Turn, 3-point	EP7230	70.2	28.2	5	16.5	190
EN4SD723612GY	**EN4SD723612LG**	72	36	12	14	2	Qtr Turn, 3-point	EP7236	70.2	34.2	5	16.5	195
EN4SD242016GY	**EN4SD242016LG**	24	20	16	16	1	Qtr Turn	EP2420	22.2	18.2	2	18	52
EN4SD242416GY	**EN4SD242416LG**	24	24	16	14	2	Qtr Turn	EP2424	22.2	22.2	2	18	66
EN4SD302416GY	**EN4SD302416LG**	30	24	16	14	2	Qtr Turn	EP3024	28.2	22.2	3	12	85
EN4SD363016GY	**EN4SD363016LG**	36	30	16	14	2	Qtr Turn	EP3630	34.2	28.2	3	15	102
EN4SD423616GY	**EN4SD423616LG**	42	36	16	14	1	3-point	EP4236	40.2	34.2	4	12	140
EN4SD483616GY	**EN4SD483616LG**	48	36	16	14	1	3-point	EP4836	46.2	34.2	4	14	148
EN4SD603616GY	**EN4SD603616LG**	60	36	16	14	1	3-point	EP6036	58.2	34.2	4	18	200
EN4SD723016GY	**EN4SD723016LG**	72	30	16	14	2	Qtr Turn, 3-point	EP7230	70.2	28.2	5	16.5	215
EN4SD723616GY	**EN4SD723616LG**	72	36	16	14	2	Qtr Turn, 3-point	EP7236	70.2	34.2	5	16.5	217
EN4SD242420GY	**EN4SD242420LG**	24	24	20	14	2	Qtr Turn	EP2424	22.2	22.2	2	18	70
EN4SD302420GY	**EN4SD302420LG**	30	24	20	14	2	Qtr Turn	EP3024	28.2	22.2	3	12	82
EN4SD363020GY	**EN4SD363020LG**	36	30	20	14	2	Qtr Turn	EP3630	34.2	28.2	3	15	117
EN4SD483620GY	**EN4SD483620LG**	48	36	20	14	1	3-point	EP4836	46.2	34.2	4	14	165
EN4SD603620GY	**EN4SD603620LG**	60	36	20	14	1	3-point	EP6036	58.2	34.2	4	18	210
EN4SD723020GY	**EN4SD723020LG**	72	30	20	14	2	Qtr Turn, 3-point	EP7230	70.2	28.2	5	16.5	217
EN4SD302424GY	**EN4SD302424LG**	30	24	24	14	2	Qtr Turn	EP3024	28.2	22.2	3	12	115
EN4SD723024GY	**EN4SD723024LG**	72	30	24	14	2	Qtr Turn, 3-point	EP7230	70.2	28.2	5	16.5	220

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Eclipse Series - NEMA 4, 12

Single Window Door Enclosures



Panel Sold Separately

Application

- Designed to enclose electrical and/or electronic equipment in wallmount applications where viewing of component operation is necessary while maintaining protection ratings.
- Impressive styling features like hidden hinges, attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4 and 12
- CSA Type 3R, 4 and 12
- **Complies with**
  - NEMA 3R, 4 and 12
  - IEC 60529, IP66

Construction

- Formed 14 or 16 gauge steel.
- Full view UV resistant polycarbonate window allow maximum viewing area of inner panel.
- Smooth, continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Hinges are constructed from 304 stainless steel.
- Hinge pins are stainless steel.
- Quarter turn latches are zinc diecast with black epoxy finish.

Finish

- Cover and enclosure are phosphatized and finished with a recoatable powder inside and out with choice of ANSI 61 smooth Gray (GY) or RAL7035 textured light gray (LG).
- RAL7032 textured beige (CG) versions with gland plates are available as non-stock items.

Accessories

- Air conditioners...*see page* **387-405**
- Blowers...*see page* **407**
- Breather kits...*see page* **423**
- DIN rails...*see page* **29**
- DIN rail mounting kit...*see page* **29**
- Door stop kit...*see page* **447**
- Filter fans...*see page* **408-413**
- Gland Plates...*see page* **441**
- Heaters...*see page* **418-420**
- Handles...*see page* **30**
- Inner panel...*see page* **28**
- Quarter turn inserts and keys ...*see page* **30**
- Literature pocket...*see page* **451**
- Mounting foot kit...*see page* **30**
- Swing frame...*see page* **29**
- Swing panel...*see page* **28**
- Replacement hinge pins...*see page* **28**
- Replacement quarter turn assemblies...*see page* **30**
- Thermostats...*see page* **421**
- Touch up paint...*see page* **450**
- UL/CSA approved hardware kit ...*see page* **430**
- Padlock Adapter (EPA)...*see page* **431**

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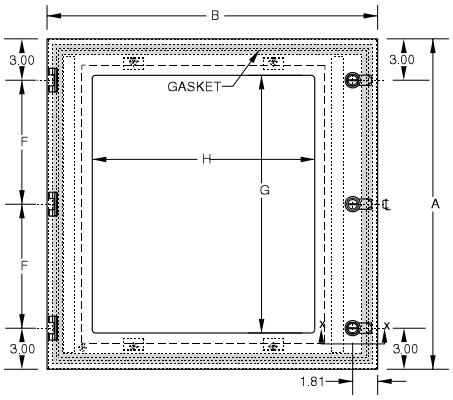
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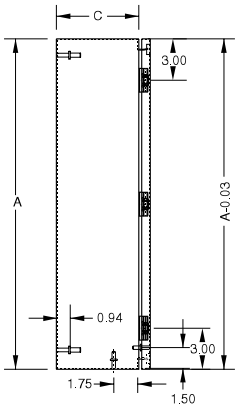
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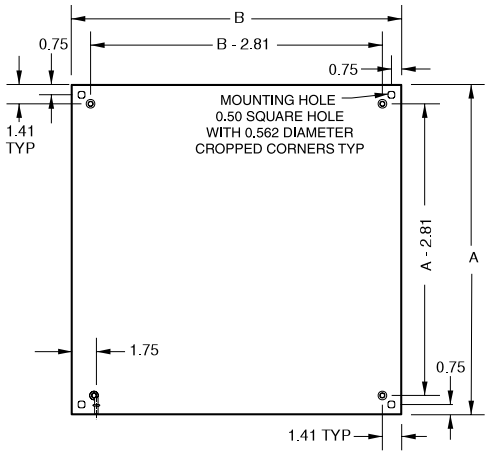
Eclipse Series - NEMA 4, 12
Single Window Door Enclosures



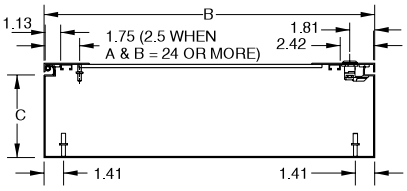
Front View



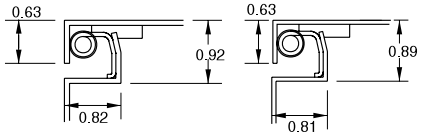
Side View
Hinge Side



Front Section
Door & Body Flange Removed

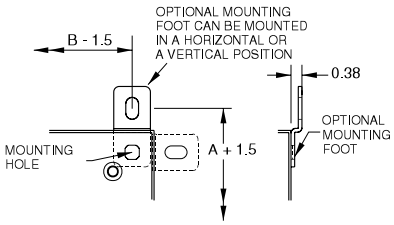


End View



Cross Section of 14 gauge Body & Door

Cross Section of 16 gauge Body & Door



Mounting Detail
Door & Body Flange Removed

Part No. (ANSI 61 Gray)	Part No. (RAL7035 Light Gray)	Overall Dimensions A	B	C	Door/ Body Gauge	Latch[1] Qty	Hinge Qty	F	Viewing Area G	H	Optional Panel Part No.	Inner Panel Dimensions D	E	Ship Wt. lbs
EN4SD16126WGY	**EN4SD16126WLG**	16	12	6	16	1	2	10	11.33	6.71	**EP1612**	14.2	10.2	16
EN4SD20166WGY	**EN4SD20166WLG**	20	16	6	16	1	2	14	15.33	10.71	**EP2016**	18.2	14.2	22
EN4SD20206WGY	**EN4SD20206WLG**	20	20	6	16	1	2	14	15.33	14.71	**EP2020**	18.2	18.2	26
EN4SD24206WGY	**EN4SD24206WLG**	24	20	6	16	1	2	18	19.33	14.71	**EP2420**	22.2	18.2	30
EN4SD24246WGY	**EN4SD24246WLG**	24	24	6	14	2	2	18	19.33	16.15	**EP2424**	22.2	22.2	37
EN4SD16128WGY	**EN4SD16128WLG**	16	12	8	16	1	2	10	11.33	6.71	**EP1612**	14.2	10.2	16
EN4SD20168WGY	**EN4SD20168WLG**	20	16	8	16	1	2	14	15.33	10.71	**EP2016**	18.2	14.2	25
EN4SD20208WGY	**EN4SD20208WLG**	20	20	8	16	1	2	14	15.33	14.71	**EP2020**	18.2	18.2	28
EN4SD24208WGY	**EN4SD24208WLG**	24	20	8	16	1	2	18	19.33	14.71	**EP2420**	22.2	18.2	32
EN4SD24248WGY	**EN4SD24248WLG**	24	24	8	14	2	2	18	19.33	16.15	**EP2424**	22.2	22.2	40
EN4SD30248WGY	**EN4SD30248WLG**	30	24	8	14	2	3	12	25.33	16.15	**EP3024**	28.2	22.2	46
EN4SD202012WGY	**EN4SD202012WLG**	20	20	12	16	1	2	18	15.33	14.71	**EP2020**	18.2	18.2	34
EN4SD242012WGY	**EN4SD242012WLG**	24	20	12	16	1	2	18	19.33	14.71	**EP2420**	22.2	18.2	38
EN4SD242412WGY	**EN4SD242412WLG**	24	24	12	14	2	2	18	18.33	16.15	**EP2424**	22.2	22.2	47
EN4SD302412WGY	**EN4SD302412WLG**	30	24	12	14	2	3	12	24.33	16.15	**EP3024**	28.2	22.2	57
EN4SD242416WGY	**EN4SD242416WLG**	24	24	16	14	2	2	18	18.33	16.15	**EP2424**	22.2	22.2	66
EN4SD242420WGY	**EN4SD242420WLG**	24	24	20	14	2	2	18	18.33	16.15	**EP2424**	22.2	22.2	70
EN4SD302420WGY	**EN4SD302420WLG**	30	24	20	14	2	3	12	24.71	16.15	**EP3024**	28.2	22.2	82

[1] All Window Door latch types are quarter turns.

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Eclipse Sloped Top Series, NEMA 4, 12

Single Door Enclosures



Panel Sold Separately

Application

- Designed to enclose electrical and/or electronic equipment and protect against harsh, industrial environments for wallmount applications.
- Sloped top prevents water from resting on top as well as providing potential for controls mounting.
- Impressive styling features like hidden hinges and attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, 12 and 13
- CSA Type 3R, 4, 12 and 13
- **Complies with**
  - NEMA 3R, 4, 12 and 13
  - IEC 60529, IP66

Construction

- Formed 14 or 16 gauge steel.
- Continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured and can easily be replaced in the field if necessary.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Hinges are finished in mild steel.
- Stainless steel hinge pins and quarter turns.

Finish

- Cover and enclosure are finished in recoatable RAL 7035 light gray textured powder coating.

Accessories

- Air conditioners...*see page* ***387-405***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- DIN rails...*see page* ***29***
- DIN rail mounting kit...*see page* ***29***
- Door stop kit...*see page* ***447***
- Filter fans...*see page* ***408-413***
- Heaters...*see page* ***418-420***
- Handles...*see page* ***30***
- Inner panel...*see page* ***28***
- Quarter turn inserts and keys ...*see page* ***30***
- Literature pocket...*see page* ***451***
- Mounting foot kit...*see page* ***30***
- Swing frame...*see page* ***29***
- Swing panel...*see page* ***28***
- Replacement hinge pins...*see page* ***28***
- Replacement quarter turn assemblies...*see page* ***30***
- Thermostats...*see page* ***421***
- Touch up paint...*see page* ***450***
- UL/CSA approved hardware kit ...*see page* ***430***
- Padlock Adapter (EPA)...*see page* ***431***

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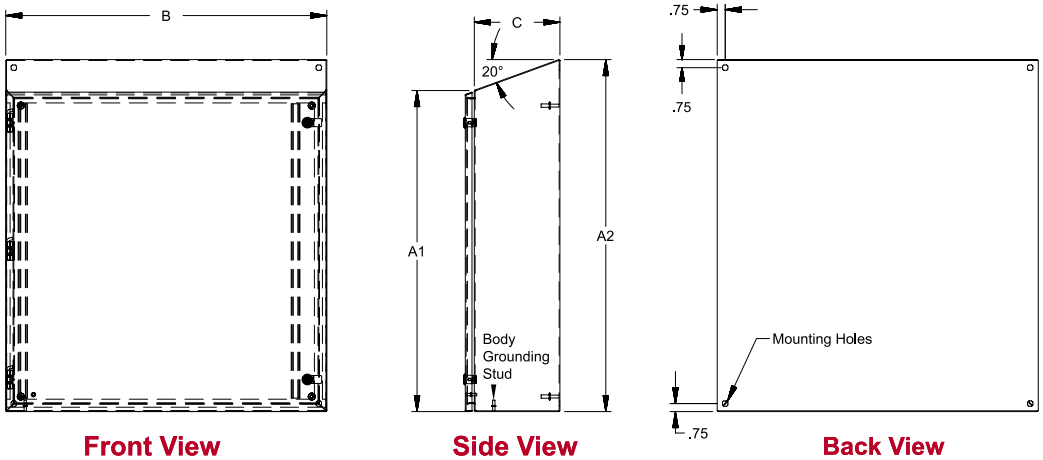
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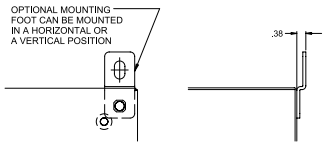
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Eclipse Sloped Top Series, NEMA 4, 12

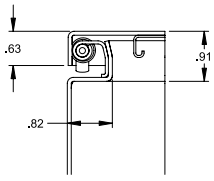
Single Door Enclosures



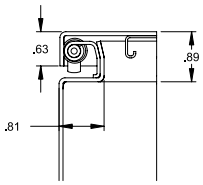
Front View **Side View** **Back View**



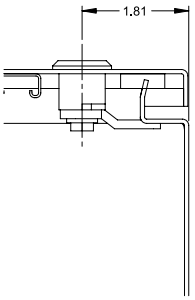
MOUNTING DETAIL



CROSS SECTION OF 14 GAUGE BODY & DOOR



CROSS SECTION OF 16 GAUGE BODY & DOOR



Section B-B

QUARTER TURN LOCK

Part Number	Dimensions [in] Enclosure Size A1	A2	B	C	Gauge Door	Body	Panel Cat. Number	Latch Qty	Latch Style	Hinge Qty
ST12126LG	12	14.2	12	6	16	16	EP1212	1	Qtr Turn	2
ST16126LG	16	18.2	12	6	16	16	EP1612	1	Qtr Turn	2
ST20166LG	20	22.2	16	6	16	16	EP2016	1	Qtr Turn	2
ST20206LG	20	22.2	20	6	16	16	EP2020	1	Qtr Turn	2
ST16168LG	16	18.9	16	8	16	16	EP1616	1	Qtr Turn	2
ST20168LG	20	22.9	16	8	16	16	EP2016	1	Qtr Turn	2
ST20208LG	20	22.9	20	8	16	16	EP2020	1	Qtr Turn	2
ST24208LG	24	26.9	20	8	16	16	EP2420	1	Qtr Turn	2
ST24248LG	24	26.9	24	8	14	16	EP2424	2	Qtr Turn	2
ST30248LG	30	32.9	24	8	14	16	EP3024	2	Qtr Turn	3
ST30308LG	30	32.9	30	8	14	14	EP3030	2	Qtr Turn	3
ST36308LG	36	38.9	30	8	14	14	EP3630	2	Qtr Turn	3
ST242410LG	24	27.6	24	10	14	16	EP2424	2	Qtr Turn	2
ST302410LG	30	33.6	24	10	14	16	EP3024	2	Qtr Turn	3
ST363010LG	36	39.6	30	10	14	14	EP3630	2	Qtr Turn	3
ST483610LG	48	51.6	36	10	14	14	EP4836	1	3-point	4
ST242412LG	24	28.4	24	12	14	16	EP2424	2	Qtr Turn	2
ST302412LG	30	34.4	24	12	14	16	EP3024	2	Qtr Turn	3
ST363012LG	36	40.3	30	12	14	14	EP3630	2	Qtr Turn	3
ST363612LG	36	40.3	36	12	14	14	EP3636	2	Qtr Turn	3
ST483612LG	48	52.3	36	12	14	14	EP4836	1	3-point	4
ST603612LG	60	64.3	36	12	14	14	EP6036	1	3-point	4
ST363016LG	36	41.8	30	16	14	14	EP3630	2	Qtr Turn	3
ST483616LG	48	53.7	36	16	14	14	EP4836	1	3-point	4
ST302420LG	30	37.3	24	20	14	14	EP3024	2	Qtr Turn	3

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Eclipse Series- NEMA 4, 12

Two Door Enclosures



Panel Sold Separately

Application

- Designed to enclose electrical and/or electronic equipment and protect against harsh, industrial environments for wallmount applications.
- Impressive styling features like hidden hinges, attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4 and 12
- CSA Type 3R, 4 and 12
- **Complies with**
  - NEMA 3R, 4 and 12
  - IEC 60529, IP66

Construction

- Formed 14 gauge steel.
- Smooth, continuously welded seams ground smooth.
- Door stiffeners are provided for increased strength and rigidity also designed to permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Doors are secured with a three point key lockable handle.
- Hinges are constructed from 304 stainless steel.
- Key lockable handle is zinc diecast with black epoxy finish.
- Hinge pins are stainless steel.

Finish

- Cover and enclosure are phosphatized and finished with a recoatable powder inside and out with choice of ANSI 61 smooth Gray (GY) or RAL7035 textured light gray (LG).
- RAL7032 textured beige (CG) versions with gland plates are available as non-stock items.

Accessories

- Air conditioners...*see page* ***387-406***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- DIN rails...*see page* ***29***
- DIN rail mounting kit...*see page* ***29***
- Door stop kit...*see page* ***447***
- Filter fans...*see page* ***408-413***
- Gland plates...*see page* ***441***
- Heaters...*see page* ***418-420***
- Handles...*see page* ***30***
- Inner panel...*see page* ***28***
- Literature pocket...*see page* ***451***
- Replacement hinge pins...*see page* ***28***
- Thermostats...*see page* ***421***
- Touch up paint...*see page* ***450***
- UL/CSA approved hardware kit ...*see page* ***430***
- Window kits...*see page* ***444***

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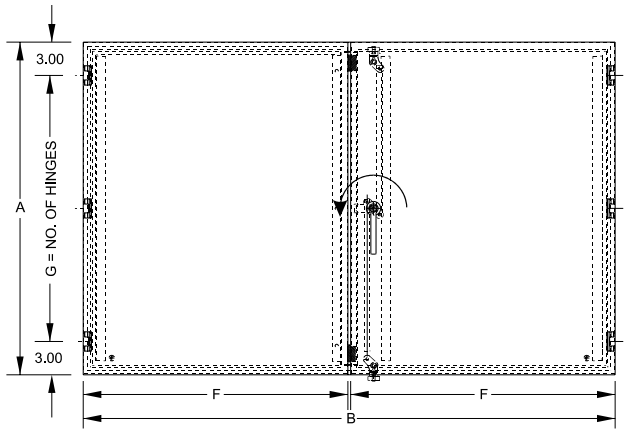
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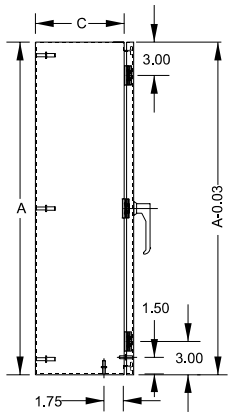
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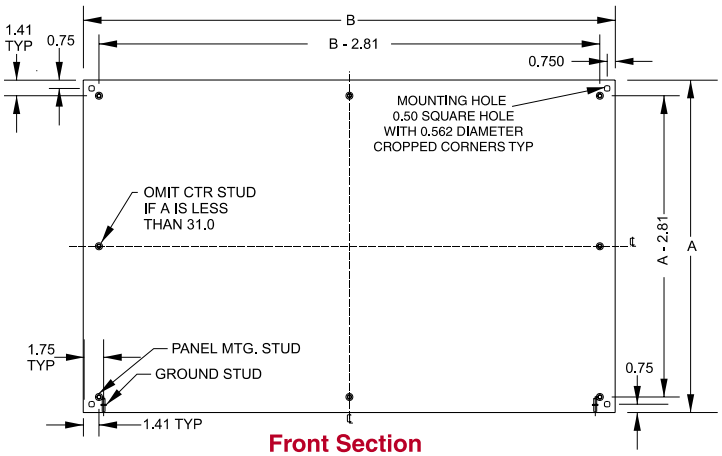
Eclipse Series - NEMA 4, 12
Two Door Enclosures



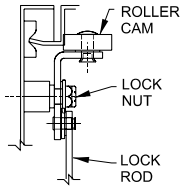
Front View



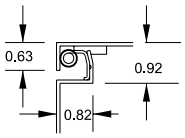
Side View - Hinge Side



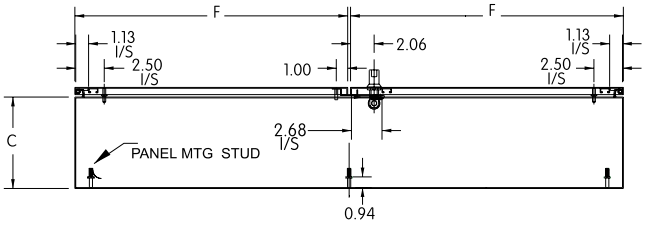
Front Section
Door & Body Flange Removed



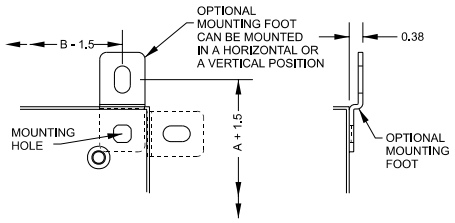
Cross Section End View of Top and Bottom
Door Cam typ 2 pls.



Cross Section of 14 gauge Body & Door



End View



Mounting Detail
Door & Body Flange Removed

Part No. (ANSI 61 Gray)	Part No. (RAL7035 Light Gray)	Overall Dimensions A	B	C	F	# of Hinges G	Optional Panel Part No.	Panel Size D	E	Ship Wt. Lbs
EN4TD24428GY	**EN4TD24428LG**	24	42	8	20.88	2	**EP2442**	22.2	40.2	80
EN4TD24488GY	**EN4TD24488LG**	24	48	8	23.88	2	**EP4824**	46.2	22.2	95
EN4TD30488GY	**EN4TD30488LG**	30	48	8	23.88	3	**EP3048**	28.2	46.2	105
EN4TD244210GY	**EN4TD244210LG**	24	42	10	20.88	2	**EP2442**	22.2	40.2	85
EN4TD304210GY	**EN4TD304210LG**	30	42	10	20.88	3	**EP3042**	28.2	40.2	117
EN4TD304810GY	**EN4TD304810LG**	30	48	10	23.88	3	**EP3048**	28.2	46.2	112
EN4TD306010GY	**EN4TD306010LG**	30	60	10	29.88	3	**EP3060**	28.2	58.2	145
EN4TD306012GY	**EN4TD306012LG**	30	60	12	29.88	3	**EP3060**	28.2	58.2	152
EN4TD364212GY	**EN4TD364212LG**	36	42	12	20.88	3	**EP4236**	42.2	34.2	121
EN4TD364812GY	**EN4TD364812LG**	36	48	12	23.88	3	**EP3648**	34.2	46.1	135
EN4TD366012GY	**EN4TD366012LG**	36	60	12	29.88	3	**EP3660**	34.2	58.2	165

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

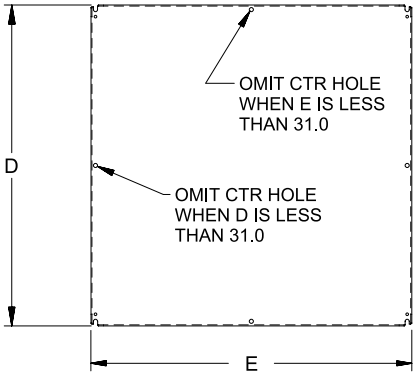
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Eclipse Series - NEMA 4, 12
Accessories





Eclipse Inner Panel

- Larger than standard NEMA panel used in same sized enclosure.
- 12 gauge steel construction (see chart, below).
- Larger sizes have 2 or 4 formed flanges for added strength.
- Slotted corner design for easier mounting.
- Finished in white or unpainted galvanized.

Mild Steel Part No.	Galvanized Part No.	Size D	Size E	Gauge
EP1212	**EPG1212**	10.2	10.2	12
EP1224	**EPG1224**	10.2	22.2	12
EP1612	**EPG1612**	14.2	10.2	12
EP1616	**EPG1616**	14.2	14.2	12
EP1620	**EPG1620**	14.2	18.2	12
EP2012	**EPG2012**	18.2	10.2	12
EP2016	**EPG2016**	18.2	14.2	12
EP2020	**EPG2020**	18.2	18.2	12
EP2024	**EPG2024**	18.2	22.2	12
EP2412	**EPG2412**	22.2	10.2	12
EP2416	**EPG2416**	22.2	14.2	12
EP2420	**EPG2420**	22.2	18.2	12
EP2424	**EPG2424**	22.2	22.2	12
EP2430	**EPG2430**	22.2	28.2	12
EP2442	**EPG2442**	22.2	40.2	12
EP2448	**EPG2448**	22.2	46.2	12
EP3012	**EPG3012**	28.2	10.2	12
EP3016	**EPG3016**	28.2	14.2	12
EP3020	**EPG3020**	28.2	18.2	12
EP3024	**EPG3024**	28.2	22.2	12

Mild Steel Part No.	Galvanized Part No.	Size D	Size E	Gauge
EP3030	**EPG3030**	28.2	28.2	12
EP3036	**EPG3036**	28.2	34.2	12
EP3042	**EPG3042**	28.2	40.2	12
EP3048	**EPG3048**	28.2	46.2	12
EP3060	**EPG3060**	28.2	58.2	12
EP3624	**EPG3624**	34.2	22.2	12
EP3630	**EPG3630**	34.2	28.2	12
EP3636	**EPG3636**	34.2	34.2	12
EP3642	**EPG3642**	34.2	40.2	12
EP3648	**EPG3648**	34.2	46.2	12
EP3660	**EPG3660**	34.2	58.2	12
EP4224	**EPG4224**	40.2	22.2	12
EP4230	**EPG4230**	40.2	28.2	12
EP4236	**EPG4236**	40.2	34.2	12
EP4824	**EPG4824**	46.2	22.2	12
EP4830	**EPG4830**	46.2	28.2	12
EP4836	**EPG4836**	46.2	34.2	12
EP6036	**EPG6036**	58.2	34.2	12
EP7230	**EPG7230**	70.2	28.2	12
EP7236	**EPG7236**	70.2	34.2	12



Eclipse Swing Panel



- Hinged panel allows access to internally mounted equipment.
- 12 gauge steel construction.
- Slotted quarter turn latches provide closure.
- Adding optional locking quarter turn latches (Part Number **EQTRL**...*see page* ***30***) convert this to a dead front panel.
- Complete with 4-6" depth adjustment channels.
- Hardware kit maintains UL, CSA and NEMA ratings when field installed.
- Finished in white.

Part No.	Fits Enclosure Size (A x B)
ESP1212	12 x 12
ESP1612	16 x 12
ESP1616	16 x 16
ESP2016	20 x 16
ESP2416	24 x 16
ESP1620	16 x 20

Part No.	Fits Enclosure Size (A x B)
ESP2020	20 x 20
ESP2420	24 x 20
ESP3020	30 x 20
ESP2024	20 x 24
ESP2424	24 x 24
ESP3024	30 x 24

Part No.	Fits Enclosure Size (A x B)
ESP3624	36 x 24
ESP3030	30 x 30
ESP3630	36 x 30
ESP3636	36 x 36



Eclipse Replacement Hinge Pins

- These are supplied with enclosure but offered here as replacements should originals be misplaced.
- Packaged in quantities of 5.

Part No.	Material
EPINSS	Stainless steel hinge pin

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Eclipse Series - NEMA 4, 12
Accessories



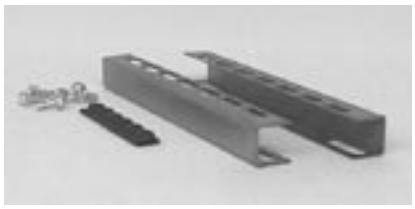
Eclipse Swing Frame

- Provides 19" rack mounting with full EIA spacing (punched holes).
- Hinges allow easy equipment access.
- Slotted quarter turn latches provide closure.
- Adding optional locking quarter turn latches (**EQTRL**...*see page* ***30***) provides added security.
- Complete with 4-6" depth adjustment channels.
- Order package of 25 clip nuts separately (Part No. 1421N25...*see page* ***430***).
- Hardware kit maintains UL, CSA and NEMA ratings when field installed.
- Finished in black.

Electronic Industries Alliance

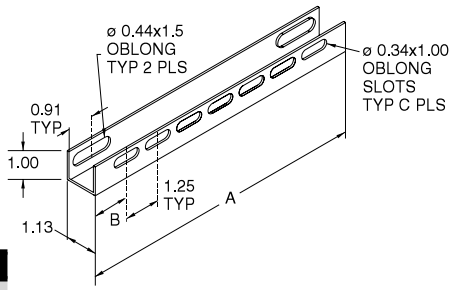
Hardware Included

Part No.	Fits Enclosure Size (A x B)	Rack Spacing Width	Rack Spacing Height (Units)
ESF2424	24 x 24	19	11
ESF3024	30 x 24	19	14
ESF3624	36 x 24	19	17



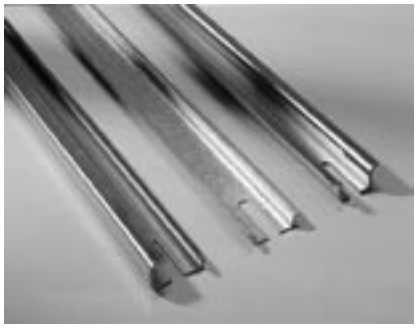
DIN Rail Mounting Kit

- Field installable.
- Mounts directly to panel collar studs (panel not required).
- Accepts optional DIN rails, see below.
- DIN rails available separately.
- Zinc plated, yellow dichromate.



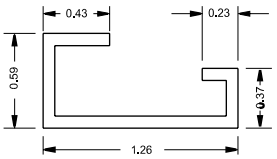
Part No.	A	B	C
2DMK12	10	1.25	7
2DMK16	14	0.75	11
2DMK20	18	0.88	14
2DMK24	22	1.00	17
2DMK30	28	0.88	22

For sizing, refer to master selection table...*see page* ***20-21***

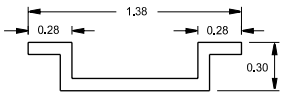


DIN Rails

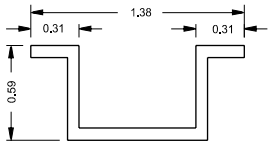
- Field installable.
- Includes a set of 3 plated rails.
- Available in 3 industry standard profiles - DIN 1, DIN 3, and CENELEC.
- DIN rail mounting kit required for installation (see above).
- Rails have a 0.28 x 1.25 oblong slot on each end.
- Zinc plated.



Asymmetric DIN 1 Pro



Symmetric DIN 3 Pro



CENELEC Pro

Asymmetric Din 1 Profile Part No.	Symmetric Din 3 Profile Part No.	Cenelec Profile Part No.	Length
2D1K12	**2D2K12**	**2DCK12**	9.25
2D1K16	**2D2K16**	**2DCK16**	13.25
2D1K20	**2D2K20**	**2DCK20**	17.25
2D1K24	**2D2K24**	**2DCK24**	21.25
2D1K30	**2D2K30**	**2DCK30**	27.25

For sizing, refer to master selection table...*see page* ***20-21***

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Eclipse Series- NEMA 4, 12
Accessories



Quarter Turn Inserts and Keys

- Field installable inserts replace standard quarter turn slot.
- Available in 7mm square and triangle formats, as well as slotted.
- Square and triangle inserts provide extra security since standard screw drivers cannot open.
- Keys sold separately from inserts.
- Maintains NEMA, UL and CSA 12, 4 and 4X ratings.

Part No.	Description
2SQI7	7mm square insert, black
2SQK7	7mm square key, fits 2SQI7
2TRI7	7mm triangle insert, black
2TRK7	7mm triangle key, fits 2TRI7
2SLI	Slotted insert, black



Replacement Quarter Turn Assemblies

- Field installable.
- Interchangeable with standard quarter turn latches.
- Maintains NEMA, UL and CSA ratings as noted.

Part No.	Description	Material	NEMA Rating
EQTRL[1]	Locking Qtr Turn	Zinc Die/Chrome	n/a (internal use only)
2QTR	Slotted Qtr Turn	Zinc Die/Black	12, 4
2SSQTR	Slotted Qtr Turn	Stainless steel	12, 4, 4X
2WKL	Wing knob lock	Zinc Die/Black	12, 4
2QPL	Padlockable quarter turn latch	Zinc Die/Black	12, 4

[1] For use with Swing Frame/Panel. ..*see page* 28. All others for use with enclosures.



Handles

- Field installable.
- Interchangeable with standard quarter turn latches.
- Maintain NEMA, UL and CSA ratings as noted.

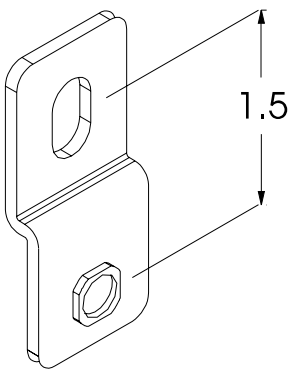
Part No.	Description	Material	NEMA Rating
EHTL	Locking T Handle	Zinc Die/Black	12, 4
EHLL	Locking L Handle	Zinc Die/Black	12, 4
EHLPL	Padlockable L Handle	Zinc Die/Black	12
EHLPLSS	Padlockable L Handle	Stainless Steel	12, 4, 4X
EHLNLSS	Non Locking L Handle	Stainless Steel	12, 4, 4X



Eclipse Mounting Foot Kit

- Maintains UL, CSA and NEMA ratings.
- Field installable.
- Pilot sits squarely into enclosure mounting holes for horizontal or vertical positioning.
- Available in plated black and stainless steel.
- Packaged in quantities of four.

Part No.	Material
EZPMF	Mild Steel
ESSMF	Type 304 Stainless
ES16MF	Type 316 Stainless



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1418 Series Single Door Enclosures - NEMA 12, 13

Continuous Hinge, Clamped Cover



Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12 and 13
- CSA Type 12 and 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP54

Construction

- Formed 14 gauge steel bodies and doors.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Door and body stiffeners are provided in the larger enclosures for extra rigidity.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Continuously hinged door may be removed by pulling the hinge pin.
- Door is secured with easily operated stainless steel clamps.
- Provision for padlocking.
- Oil resistant gaskets are permanently secured.
- A removable 12 gauge inner panel is included.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating on the outside, with white powder coating on the inside.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...see page 433
- Air conditioners...see page 387-405
- Blowers...see page 406
- Breather kits...see page 423
- Door clamping hardware ...see page 427
- Door stop kits...see page 447
- Drip shield kits...see page 447
- Enclosure stabilizers...see page 451
- Filter fans...see page 408-413
- Floor stand kits...see page 448
- Gland plates...see page 441
- Heaters...see page 418-420
- Lock kit...see page 428
- Louvered ventilating plates ...see page 450
- Quick release clamp...see page 427
- Terminal kit assemblies ...see page 437
- Thermostats...see page 421
- Window kits...see page 444

Part No.	A	B	C	Panel Size D	Panel Size E	Centers F	Centers G	Ship Wt. lbs
1418A6[2]	12	24	6	9	21	18.0	13.25	34
1418B6[2]	16	12	6	13	9	9.5	17.25	26
1418G6[2]	16	16	6	13	13	10.0	17.25	32
1418CR6[2]	16	20	6	13	17	14.0	17.25	38
1418CA6[2]	20	12	6	17	9	9.5	21.25	32
1418C6[2]	20	16	6	17	13	10.0	21.25	38
1418D6[2]	20	20	6	17	17	14.0	21.25	48
1418ER6	20	24	6	17	21	18.0	21.25	54
1418AR6[2]	24	12	6	21	9	9.5	25.25	36
1418H6	24	16	6	21	13	10.0	25.25	46
1418E6	24	20	6	21	17	14.0	25.25	54
1418J6	24	24	6	21	21	18.0	25.25	62
1418FG6	30	16	6	27	13	10.0	31.25	56
1418F6	30	20	6	27	17	14.0	31.25	66
1418K6	30	24	6	27	21	18.0	31.25	76
1418L6	36	24	6	33	21	18.0	37.25	91
1418M6	36	30	6	33	27	24.0	37.25	114
1418A8[2]	12	24	8	9	21	18.0	13.25	38
1418B8[2]	16	12	8	13	9	9.5	17.25	28
1418G8[2]	16	16	8	13	13	10.0	17.25	34
1418CR8[2]	16	20	8	13	17	14.0	17.25	43
1418CA8[2]	20	12	8	17	9	9.5	21.25	35
1418C8[2]	20	16	8	17	13	10.0	21.25	40
1418D8[2]	20	20	8	17	17	14.0	21.25	48

[1]Does not meet JIC requirements [2]Flat Panel not meet JIC

Part No.	A	B	C	Panel Size D	Panel Size E	Centers F	Centers G	Ship Wt. lbs
1418ER8	20	24	8	17	21	18.0	21.25	61
1418AR8	24	12	8	21	9	9.5	25.25	40
1418H8	24	16	8	21	13	10.0	25.25	50
1418E8	24	20	8	21	17	14.0	25.25	58
1418J8	24	24	8	21	21	18.0	25.25	68
1418KR8	24	30	8	21	27	24.0	25.25	82
1418KA8	30	12	8	27	9	9.5	31.25	50
1418KG8	30	16	8	27	13	10.0	31.25	60
1418F8	30	20	8	27	17	14.0	31.25	70
1418K8	30	24	8	27	21	18.0	31.25	82
1418KK8	30	30	8	27	27	24.0	31.25	102
1418MR8	30	36	8	27	33	30.0	31.25	124
1418L8	36	24	8	33	21	18.0	37.25	96
1418M8	36	30	8	33	27	24.0	37.25	120
1418LL8[1]	36	36	8	33	33	30.0	37.25	142
1418N8	42	24	8	39	21	18.0	43.25	110
1418O8[1]	42	30	8	39	27	24.0	43.25	132
1418P8[1]	42	36	8	39	33	30.0	43.25	182
1418Q8	48	24	8	45	21	18.0	49.25	122
1418R8[1]	48	30	8	45	27	24.0	49.25	173
1418S8[1]	48	36	8	45	33	30.0	49.25	201
1418T8[1]	60	36	8	57	33	30.0	61.25	246
1418B10[2]	16	12	10	13	9	9.5	17.25	30
1418C10[2]	20	16	10	17	13	10.0	21.25	44

[1]Does not meet JIC requirements [2]Flat Panel not meet JIC

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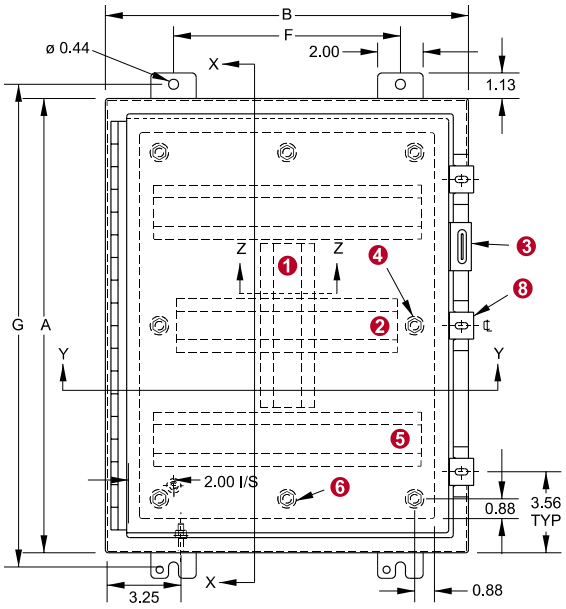
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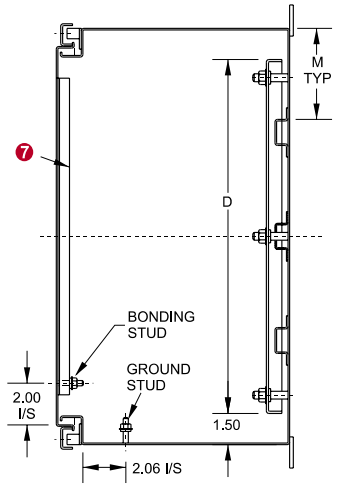
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1418 Series Single Door Enclosures - NEMA 12, 13

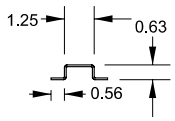
Continuous Hinge, Clamped Cover



Front View

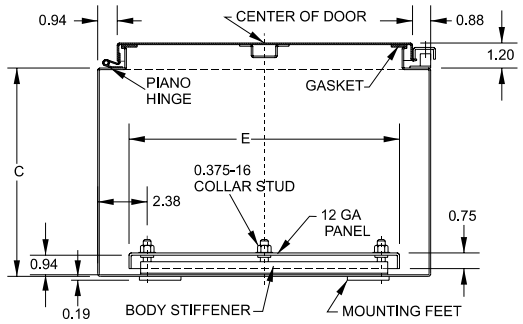


Side View



Section Z-Z

When A=	M=
30	7.00
36	9.00
42	9.88
48	11.38
60	14.38
72	17.38



Bottom View

Inner Panel Included

Part No.	A	B	C	Panel Size D	Panel Size E	Centers F	Centers G	Ship Wt. lbs
1418D10[2]	20	20	10	17	17	14.0	21.25	52
1418AR10[2]	24	12	10	21	9	9.5	25.25	42
1418E10	24	20	10	21	17	14.0	25.25	64
1418J10	24	24	10	21	21	18.0	25.25	73
1418F10	30	20	10	27	17	14.0	31.25	76
1418K10	30	24	10	27	21	18.0	31.25	86
1418L10	36	24	10	33	21	18.0	37.25	105
1418M10	36	30	10	33	27	24.0	37.25	124
1418O10[1]	42	30	10	39	27	24.0	43.25	140
1418P10[1]	42	36	10	39	33	30.0	43.25	192
1418R10[1]	48	30	10	45	27	24.0	49.25	162
1418S10[1]	48	36	10	45	33	30.0	49.25	208
1418T10[1]	60	36	10	57	33	30.0	61.25	258
1418C12[2]	20	16	12	17	13	10.0	21.25	48
1418E12	24	20	12	21	17	14.0	25.25	68
1418J12	24	24	12	21	21	18.0	25.25	76
1418K12	30	24	12	27	21	18.0	31.25	90
1418KK12	30	30	12	27	27	24.0	31.25	114
1418L12	36	24	12	33	21	18.0	37.25	108
1418M12	36	30	12	33	27	24.0	37.25	132
1418LL12[1]	36	36	12	33	33	30.0	37.25	156
1418O12[1]	42	30	12	39	27	24.0	43.25	150
1418P12[1]	42	36	12	39	33	30.0	43.25	198
1418S12[1]	48	36	12	45	33	30.0	49.25	222
1418T12[1]	60	36	12	57	33	30.0	61.25	264
1418U12[1]	72	30	12	69	27	24.0	73.25	272
1418V12	72	36	12	69	33	30.0	73.25	312
1418E16	24	20	16	21	17	14.0	25.25	74
1418J16	24	24	16	21	21	18.0	25.25	86
1418K16	30	24	16	27	21	18.0	31.25	102
1418M16	36	30	16	33	27	24.0	37.25	140
1418P16[1]	42	36	16	39	33	30.0	43.25	214
1418S16[1]	48	36	16	45	33	30.0	49.25	238
1418T16[1]	60	36	16	57	33	30.0	61.25	290
1418U16[1]	72	30	16	69	27	24.0	73.25	290
1418K20	30	24	20	27	21	18.0	31.25	112
1418M20	36	30	20	33	27	24.0	37.25	152
1418S20[1]	48	36	20	45	33	30.0	49.25	256
1418T20[1]	60	36	20	57	33	30.0	61.25	300
1418U20[1]	72	30	20	69	27	24.0	73.25	308
1418K24	30	24	24	27	21	18.0	31.25	142
1418U24[1]	72	30	24	69	27	24.0	73.25	332

[1]Does not meet JIC requirements [2]Flat Panel not meet JIC

1. Vertical stiffener required on KK, M, MR and LL only.
2. Omit center body stiffener if A is less than 41".
3. Padlocking hasp and staple.
4. Omit 2 middle studs if A is less than 31".
5. Omit body stiffeners if A or B is less than 29".
6. Omit 2 middle studs if B is less than 31".
7. Omit door stiffener if A or B is less than 31" except if AxB is 42"x30", 48"x30" or 72"x30".
8. Omit if A is less than 48".

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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1418 N4 Series Single Door Enclosures - NEMA 4

Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in outdoor applications for full weather protection.

Standards

- UL 508 Type 3R,12, 4
- CSA Type 3R, 12, 4
- **Complies with**
  - NEMA Type 3R, 4, 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP66

Construction

- Formed 14 gauge steel bodies and doors.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Door and body stiffeners are provided in the larger enclosures for extra rigidity.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Stainless steel continuous hinge on door may be removed by pulling the stainless steel hinge pin.
- Door is secured with easily operated stainless steel clamps.
- Provision for padlocking.
- Oil resistant gaskets are permanently secured.
- A removable 12 gauge inner panel is included.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...see page 433
- Air conditioners...see page 387-405
- Blowers...see page 406
- Breather kits...see page 423
- Door clamping hardware ...see page 427
- Door stop kits...see page 447
- Enclosure stabilizers...see page 451
- Filter fans...see page 408-413
- Floor stand kits...see page 448
- Gland plates...see page 441
- Heaters...see page 418-420
- Lock kit...see page 428
- Louvered ventilating plates ...see page 450
- Quick release clamp...see page 427
- Terminal kit assemblies ...see page 437
- Thermostats...see page 421-422
- Window kits...see page 444

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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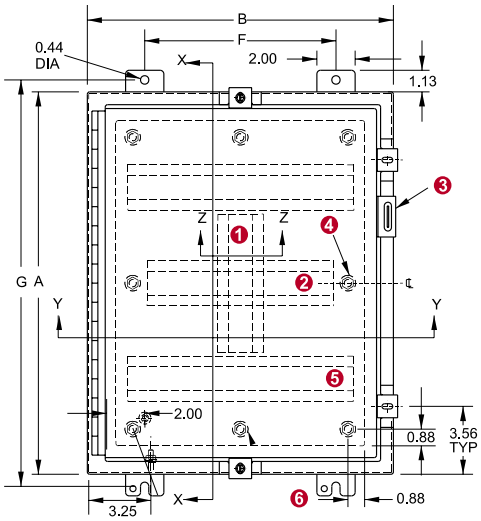
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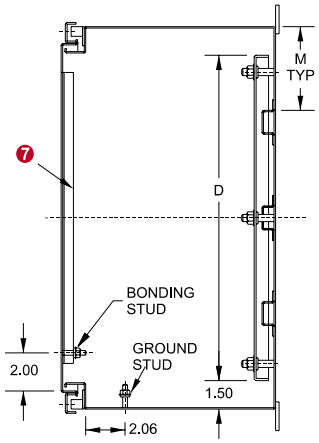
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1418 N4 Series Single Door Enclosures - NEMA 4

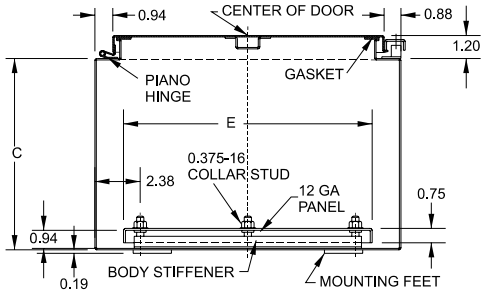
Continuous Hinge, Clamped Cover



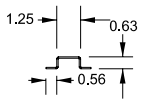
Front View



Side View



Section Y-Y



Section Z-Z

❶ Vertical stiffener required on KK and M only.
❷ Omit center body stiffener if A is less than 41".
❸ Padlocking hasp and staple.
❹ Omit 2 middle studs if A is less than 31".
❺ Omit body stiffeners if A or B is less than 29 .
❻ Omit 2 middle studs if B is less than 31".
❼ Omit door stiffener if A or B is less than 31" except if AxB is 42"x30" or 48"x30".

When A=	M=
30	7.00
36	9.00
42	9.88
48	11.38
60	14.38

Literature pocket supplied loose.
Number of door clamps varies to enclosure size.

Part No.	A	B	C	Panel Size D	Panel Size E	Mtg. Centers F	Mtg. Centers G	Ship Wt. lbs.
1418N4B6[2]	16	12	6	13	9	9.5	17.25	27
1418N4G6[2]	16	16	6	13	13	10.0	17.25	34
1418N4CR6[2]	16	20	6	13	17	14.0	17.25	41
1418N4C6[2]	20	16	6	17	13	10.0	21.25	40
1418N4D6[2]	20	20	6	17	17	14.0	21.25	40
1418N4AR6	24	12	6	21	9	9.5	25.25	41
1418N4H6	24	16	6	21	13	10.0	25.25	42
1418N4E6	24	20	6	21	17	14.0	25.25	56
1418N4J6	24	24	6	21	21	18.0	25.25	65
1418N4F6	30	20	6	27	17	14.0	31.25	70
1418N4K6	30	24	6	27	21	18.0	31.25	80
1418N4L6	36	24	6	33	21	18.0	37.25	91
1418N4B8[2]	16	12	8	13	9	9.5	17.25	29
1418N4C8[2]	20	16	8	17	13	10.0	21.25	44
1418N4D8[2]	20	20	8	17	17	14.0	21.25	51
1418N4ER8	20	24	8	17	21	18.0	21.25	55
1418N4E8	24	20	8	21	17	14.0	25.25	60
1418N4J8	24	24	8	21	21	18.0	25.25	70
1418N4KR8	24	30	8	21	27	24.0	25.25	74
1418N4F8	30	20	8	27	17	14.0	31.25	79
1418N4K8	30	24	8	27	21	18.0	31.25	88
1418N4KK8	30	30	8	27	27	24.0	31.25	106

[1] Does not meet JIC requirements
[2] Flat Panel

Part No.	A	B	C	Panel Size D	Panel Size E	Mtg. Centers F	Mtg. Centers G	Ship Wt. lbs.
1418N4L8	36	24	8	33	21	18.0	37.25	101
1418N4M8	36	30	8	33	27	24	37.25	121
1418N4O8[1]	42	30	8	39	27	24	43.25	132
1418N4P8[1]	42	36	8	39	33	30	43.25	177
1418N4S8[1]	48	36	8	45	33	30	49.25	207
1418N4T8[1]	60	36	8	57	33	30	61.25	245
1418N4C10[2]	20	16	10	17	13	10	21.25	47
1418N4E10	24	20	10	21	17	14	25.25	66
1418N4K10	30	24	10	27	21	18	31.25	91
1418N4M10	36	30	10	33	27	24	37.25	125
1418N4R10[1]	48	30	10	45	27	24	49.25	175
1418N4S10[1]	48	36	10	45	33	30	49.25	183
1418N4T10[1]	60	36	10	57	33	30	61.25	252
1418N4E12	24	20	12	21	17	14	25.25	71
1418N4K12	30	24	12	27	21	18	31.25	95
1418N4L12	36	24	12	33	21	18	37.25	106
1418N4M12	36	30	12	33	27	24	37.25	136
1418N4P12[1]	42	36	12	39	33	30	43.25	202
1418N4S12[1]	48	36	12	45	33	30	49.25	225
1418N4K16	30	24	16	27	21	18	31.25	100
1418N4M16	36	30	16	33	27	24	37.25	149
1418N4S16[1]	48	36	16	45	33	30	49.25	290
1418N4T16[1]	60	36	16	57	33	30	61.25	232

[1] Does not meet JIC requirements
[2] Flat Panel

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1422 Series Two Door Wallmount Enclosures - NEMA 12

Continuous Hinge



Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

Construction

- Enclosures are formed 12 or 14 gauge steel, as noted.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Body stiffeners are provided in enclosures 30" high or more for extra rigidity.
- Welded brackets provide for enclosure mounting.
- Gasketed overlapping doors eliminate the need for a center post.
- Continuously hinged doors may be removed by pulling the hinge pin.
- Doors are secured with a three point latch and operated with a key locking automotive type handle.
- Latch rods are equipped with rollers for easier door closing.
- Oil resistant gaskets are permanently secured.
- A removable 10 gauge inner panel is included in enclosures as noted.
- Smaller sizes include a 12 gauge inner panel.
- Collar studs are provided for mounting inner panels.
- A grounding stud is provided in the enclosure and a bonding stud is provided on the door.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are phosphatized and finished in recoatable smooth ANSI 61 gray powder coating on the outside, with white powder coating on the inside.
- Removable inner panel is finished in white powder coating.

Accessories

- Air conditioners...*see page* ***387-405***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Door stop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Filter fans...*see page* ***408-413***
- Floor stand kits...*see page* ***448***
- Gland plates...*see page* ***441***
- Heaters...*see page* ***418-420***
- Light kit...*see page* ***447***
- Louvered ventilating plates ...*see page* ***450***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

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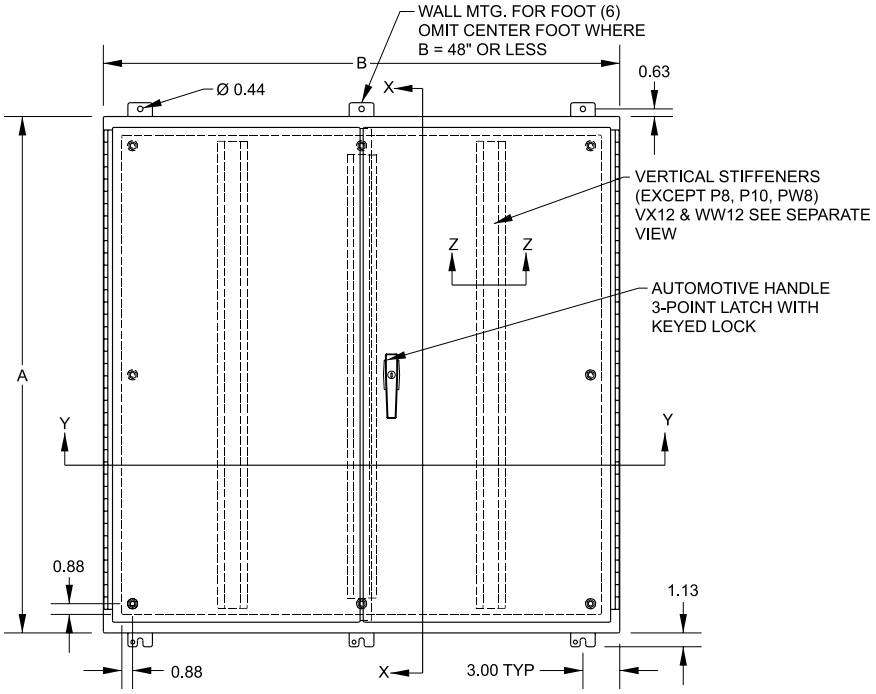
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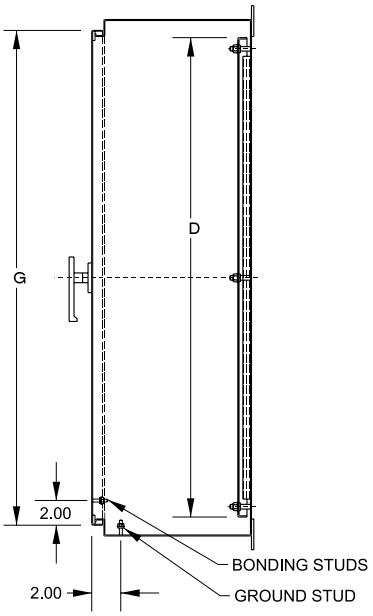
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1422 Series Two Door Wallmount Enclosures - NEMA 12

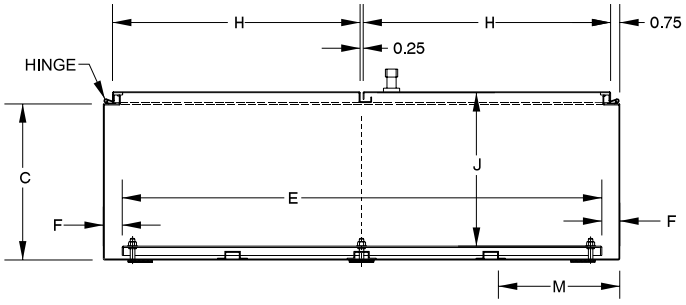
Continuous Hinge



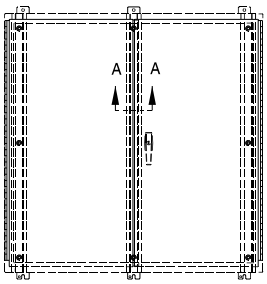
Front View



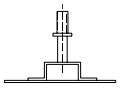
Side View



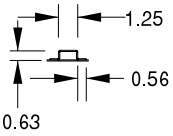
SectionY-Y



Stiffener Layout
1422UX12 & 1422WW12



Section A-A
1422VX12 & 1422WW12



Section Z-Z
(Except 1422VX12 & 1422WW12)

Part No.	A	B	C	Body Gauge	Panel Gauge	Panel Size D	Panel Size E	F	G	H	J	Ship Wt. lbs.
1422P8	24.00	42.00	8.00	14	12	21	39	1.5	22.25	20.13	7.96	79
1422PW8	24.00	48.00	8.00	14	12	21	45	1.5	22.25	23.13	7.96	92
1422P10	24.00	42.00	10.00	14	12	21	39	1.5	22.25	20.13	9.96	101
1422R10	30.00	42.00	10.00	14	12	27	39	1.5	28.25	20.13	9.96	112
1422RW10	30.00	48.00	10.00	14	12	27	45	1.5	28.25	23.13	9.96	115
1422RX10	30.00	60.00	10.00	14	12	27	57	1.5	28.25	29.13	9.96	142
1422UV12	36.00	42.00	12.00	14	12	33	39	1.5	34.25	20.13	11.96	134
1422UW12	36.00	48.00	12.00	14	12	33	45	1.5	34.25	23.13	11.96	230
1422UX12	36.00	60.00	12.00	14	12	33	57	1.5	34.25	29.13	11.96	181
1422VV12	42.00	42.00	12.00	14	12	39	39	1.5	40.25	20.13	11.96	152
1422VW12	42.00	48.00	12.00	14	12	39	45	1.5	40.25	23.13	11.96	161
1422VX12	42.13	60.06	12.69	12	10	38	56	2.0	40.25	29.13	11.96	202
1422WW12	48.13	48.06	12.69	12	10	44	44	2.0	46.25	23.13	11.96	350

When B=	M=
42	9.88
48	11.38
60	14.38

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1422 Series Two Door Floormount Enclosures - NEMA 12

Continuous Hinge



With Feet



Without Feet

Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

Construction

- Enclosures 54" high or less are formed 14 gauge steel.
- Enclosures 60" high are formed 12 gauge steel.
- Enclosures 72" high are formed 12 gauge steel with a 10 gauge steel back.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Body stiffeners are provided in enclosures for extra rigidity.
- Heavy duty lifting eyebolts are provided with reinforced support angles.
- 12" floor stands are welded to the enclosure. (w/ feet Part No.)
- Welded brackets provide for enclosure mounting (w/o feet Part No.)

Construction...Cont'd

- Gasketed overlapping doors eliminate the need for a center post.
- Continuously hinged doors may be removed by pulling the hinge pin.
- Doors are secured with a three point latch and operated with a key locking automotive type handle.
- Latch rods are equipped with rollers for easier door closing.
- Oil resistant gaskets are permanently secured.
- A removable 10 gauge inner panel is included in enclosures 60" and larger. Smaller sizes include a 12 gauge inner panel.
- Panel supports are provided in enclosures 60" and larger for easy panel installation.
- Collar studs are provided for mounting inner panels.
- A grounding stud is provided in the enclosure for each door and a bonding stud is provided on the door.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are phosphatized and finished in recoatable smooth ANSI 61 gray powder coating on the outside, with white powder coating on the inside.
- Removable inner panel is finished in white powder coating.

Accessories

- Air conditioners...see page 387-405
- Blowers...see page 406
- Breather kits...see page 423
- Door stop kits...see page 447
- Drip shield kits...see page 447
- Enclosure stabilizers...see page 451
- Filter fans...see page 408-413
- Floor stand kits...see page 448
- Gland plates...see page 441
- Heaters...see page 418-420
- Inner Panels...see page 434
- Light kit...see page 447
- Louvered ventilating plates...see page 450
- Thermostats...see page 421
- Window kits...see page 444

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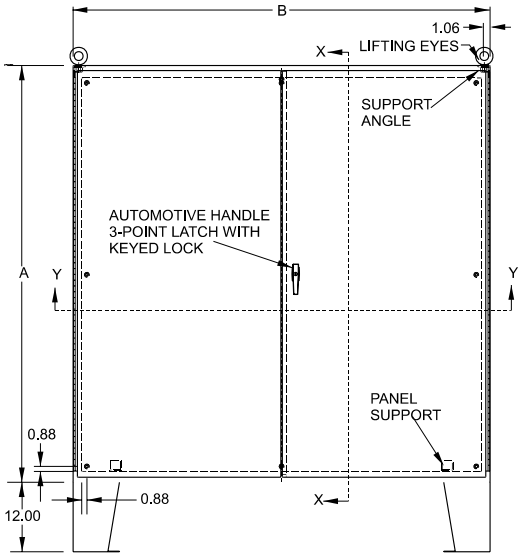
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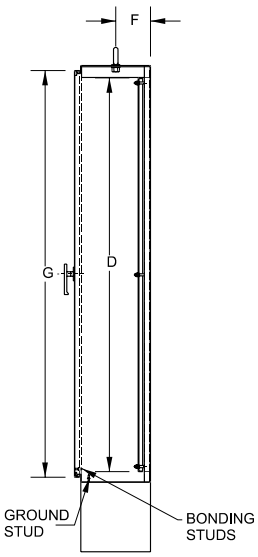
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1422 Series Two Door Floormount Enclosures - NEMA 12

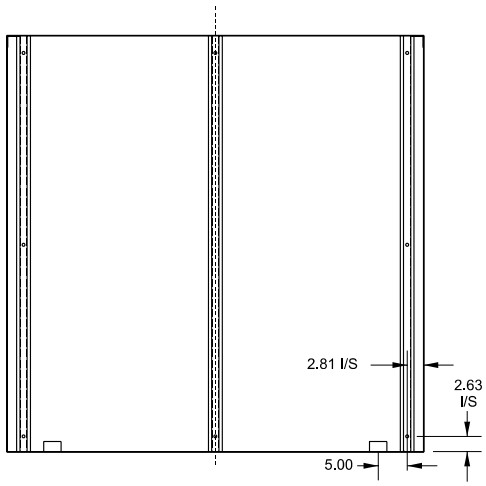
Continuous Hinge



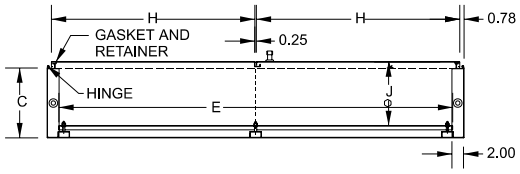
Front View
(Shown with Feet)



Section X-X



Stiffener Layout



Section Y-Y

With Feet Part No.	Without Feet Part No.	A	B	C	Body Gauge	Panel Gauge	Panel Size D	Panel Size E	F	G	H	J	Ship Wt. lbs.
1422A8F	**1422A8**	54.13	42.06	8.69	14	12	50	38	4.03	52.25	20.13	8.96	275
1422B8F	**1422B8**	60.13	48.06	8.69	12	10	56	44	4.03	58.25	23.13	7.96	450
1422B10F	**1422B10**	60.13	48.06	10.69	12	10	56	44	5.03	58.25	23.13	9.96	475
1422D10F	**1422D10**	60.13	60.06	10.69	12	10	56	56	5.03	58.25	29.13	9.96	550
1422E10F	**1422E10**	72.13	60.06	10.69	12	10	68	56	5.03	70.25	29.13	9.96	625
1422F10F	**1422F10**	72.13	72.06	10.69	12	10	68	68	5.03	70.25	35.13	9.96	740
1422B12F	**1422B12**	60.13	48.06	12.69	12	10	56	44	5.03	58.25	23.13	11.96	491
1422D12F	**1422D12**	60.13	60.06	12.69	12	10	56	56	5.03	58.25	29.13	11.96	567
1422E12F	**1422E12**	72.13	60.06	12.69	12	10	68	56	5.03	70.25	29.13	11.96	645
1422F12F	**1422F12**	72.13	72.06	12.69	12	10	68	68	5.03	70.25	35.13	11.96	750
1422B16F	**1422B16**	60.13	48.06	16.69	12	10	56	44	8.03	58.25	23.13	15.96	520
1422D16F	**1422D16**	60.13	60.06	16.69	12	10	56	56	8.03	58.25	29.13	15.96	540
1422E16F	**1422E16**	72.13	60.06	16.69	12	10	68	56	8.03	70.25	29.13	15.96	740
1422F16F	**1422F16**	72.13	72.06	16.69	12	10	68	68	8.03	70.25	35.13	15.96	795
1422B20F	**1422B20**	60.13	48.06	20.69	12	10	56	44	10.03	58.25	23.13	19.96	506
1422E20F	**1422E20**	72.13	60.06	20.69	12	10	68	56	10.03	70.25	29.13	19.96	750
1422F20F	**1422F20**	72.13	72.06	20.69	12	10	68	68	10.03	70.25	35.13	19.96	885
1422B24F	**1422B24**	60.13	48.06	24.69	12	10	56	44	12.03	58.25	23.13	23.96	550
1422D24F	**1422D24**	60.13	60.06	24.69	12	10	56	56	12.03	58.25	29.13	23.96	660
1422E24F	**1422E24**	72.13	60.06	24.69	12	10	68	56	12.03	70.25	29.13	23.96	810
1422F24F	**1422F24**	72.13	72.06	24.69	12	10	68	68	12.03	70.25	35.13	23.96	945

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1422 Series Two Door Floormount Enclosures - NEMA 4

Continuous Hinge, Clamped Doors



Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in outdoor applications for full weather protection.

Standards

- UL 508 Type 3R, 4 and 12
- CSA Type 3R, 4 and 12
- **Complies with**
  - NEMA Type 3R, 4 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Formed 12 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Body stiffeners are provided in the larger enclosures for extra rigidity.
- Heavy duty lifting eyebolts are provided with reinforcing support angles.
- Center post is removable for easy installation of the inner panel.
- Formed lip on door and top of enclosure opening exclude flowing liquids and contaminants.
- Continuously hinged doors may be removed by pulling the stainless steel hinge pin.
- Doors are secured with heavy duty stainless steel clamps.
- Provision for padlocking.
- 12" floor stands are welded to the enclosure.
- Oil resistant gaskets are permanently secured.
- A removable 10 gauge inner panel is included.
- Panel supports are provided for easy panel installation.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating.
- Removable white inner panel is finished in white powder coating.

Accessories

- Air conditioners...*see page* ***387-405***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Door stop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Filter fans...*see page* ***408-413***
- Floor stand kits...*see page* ***448***
- Gland plates...*see page* ***441***
- Heaters...*see page* ***418-420***
- Inner Panels...*see page* ***434***
- Light kit...*see page* ***447***
- Louvered ventilating plates ...*see page* ***450***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

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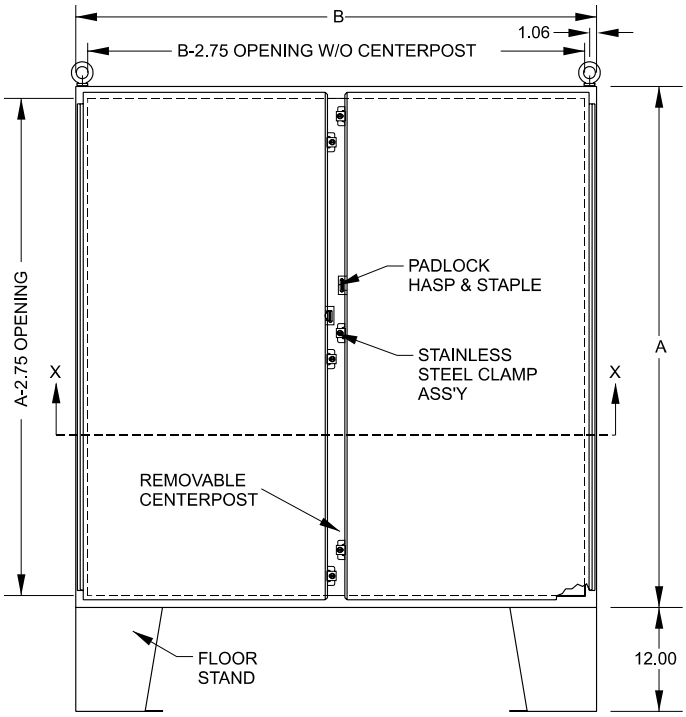
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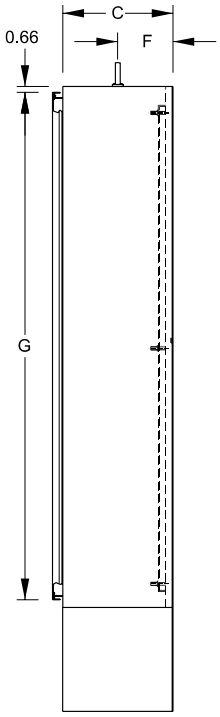
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1422 Series Two Door Floormount Enclosures - NEMA 4

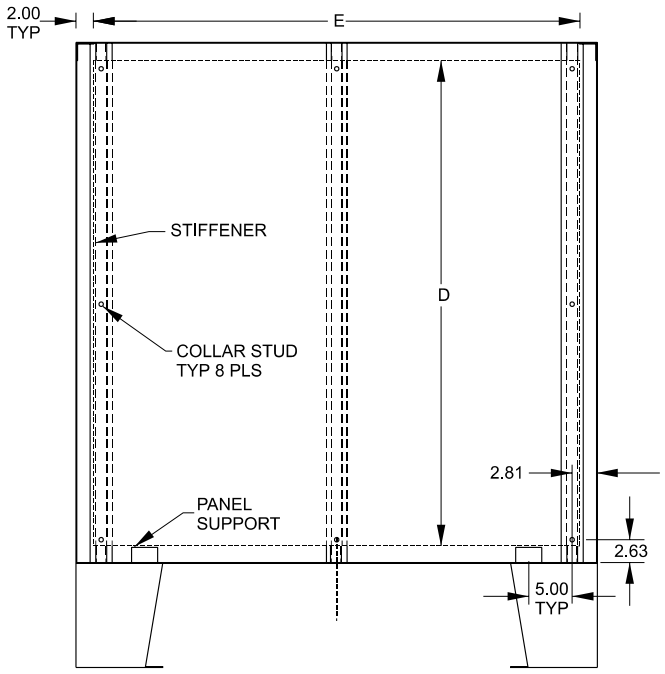
Continuous Hinge, Clamped Doors



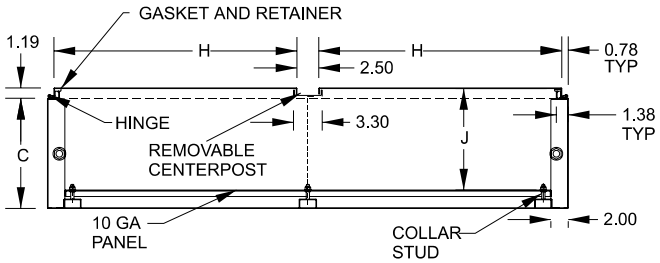
Front View



Side View



View with Doors Open



Section X-X

Part No.	A	B	C	Body Gauge	Panel Gauge	Panel Size D	Panel Size E	F	G	H	J	Ship Wt. lbs.
1422N4B10F	60.13	48.06	10.69	12	10	56	44	5.3	58.59	22	9.87	475
1422N4D12F	60.13	60.06	12.69	12	10	56	56	6.3	58.59	28	11.87	567
1422N4E12F	72.13	60.06	12.69	12	10	68	56	6.3	70.59	28	11.87	645
1422N4F12F	72.13	72.06	12.69	12	10	68	68	6.3	70.59	34	11.87	750
1422N4F24F	72.13	72.06	24.69	12	10	68	68	12.3	70.59	34	23.87	945

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1418 Series Single Door Freestanding Enclosures - NEMA 12

Single or Dual Access



Panel Sold Separately

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls with provision for panel mounting or rack mounting of equipment.
- Provides a degree of protection from falling dirt, dust, oil and water.
- Available with front access only or both front and rear access.
- A variety of inner panels, rack mounting rails and swing out frames are available to provide flexibility in mounting arrangements.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

Construction

- Formed 12 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Lifting eyes provide for easy enclosure handling.
- Doors are supported with heavy gauge continuous hinges.
- Doors are secured with a three point latch and operated with a key locking automotive type handle.
- Latch rods are equipped with rollers for easier door closing.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Mounting channels are welded on the inside of the enclosure for mounting of optional inner panels or rack equipment rails.
- A grounding stud is provided in the enclosure and a bonding stud is provided on the door.
- A literature pocket is provided for the inside of the door (Two pockets are provided for dual access units).

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating on the outside, with white powder coating on the inside.
- Optional inner panels, rails, frames and supports are finished in white powder coating.

Accessories

- Air conditioners...see page 387-405
- Blowers...see page 406
- Breather kits...see page 423
- Door stop kits...see page 447
- Drip shield kits...see page 447
- Filter fans...see page 408-413
- Floor stand kits...see page 448
- Gland plates...see page 441
- Heaters...see page 418-420
- Inner Panels...see page 48
- Light kit...see page 447
- Louvered ventilating plates ...see page 450
- Thermostats...see page 421
- Window kits...see page 444

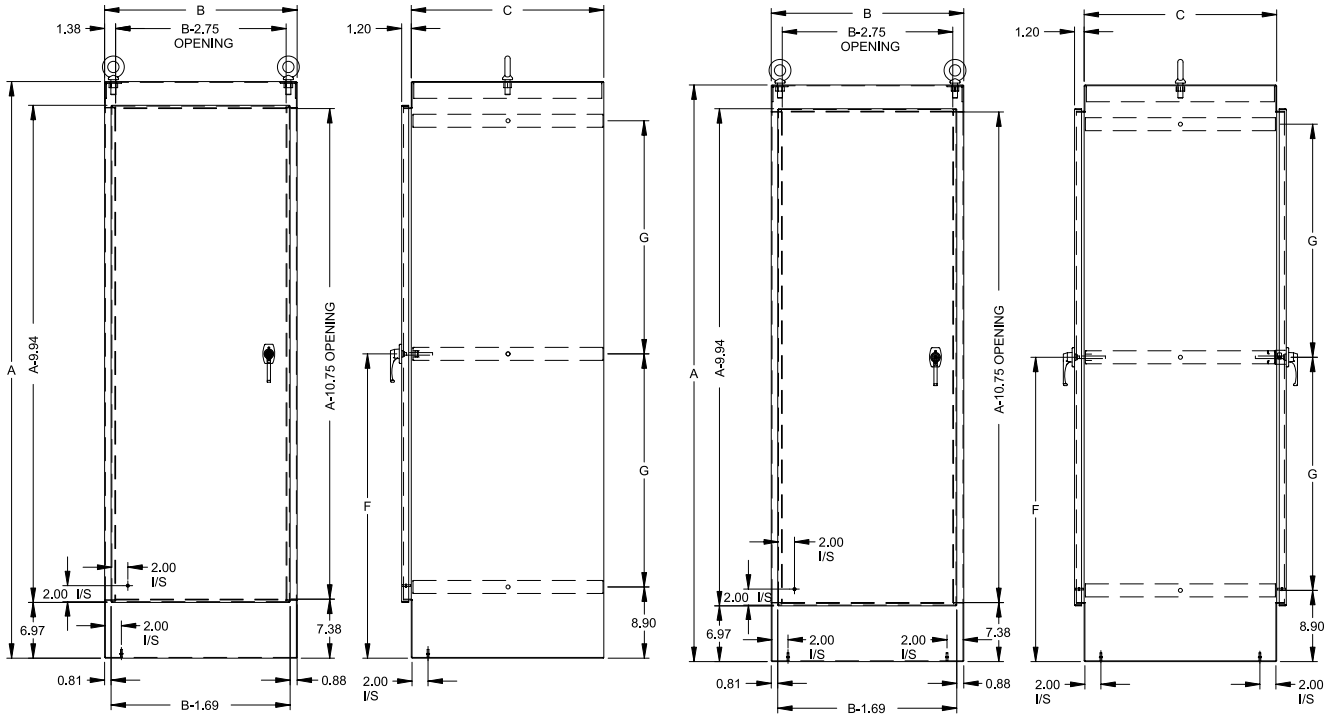
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1418 Series Single Door Freestanding Enclosures - NEMA 12

Single or Dual Access



Single Access Front View | **Single Access Side View** | **Dual Access Front View** | **Dual Access Side View**

Note: 4 eyebolts are provided for 30.06" and 36.06" deep enclosures (both dual and single access)

Single Access

Part No.	A	B	C	F	G	Opt'l Full Panel[1]	Ship Wt. lbs.
1418TW18	60.06	24.06	18.06	32.03	23.13	60TWFW	210
1418W18	72.06	24.06	18.06	38.03	29.13	72WFW	246
1418X18	72.06	30.06	18.06	38.03	29.13	72XFW	285
1418Y18	72.06	36.06	18.06	38.03	29.13	72YFW	325
1418YW20	90.06	24.06	20.06	47.03	38.13	90YWFW	313
1418YY20	90.06	36.06	20.06	47.03	38.13	90YFW	406
1418TY24	60.06	36.06	24.06	32.03	23.13	60TYFW	325
1418W24	72.06	24.06	24.06	38.03	29.13	72WFW	300
1418X24	72.06	30.06	24.06	38.03	29.13	72XFW	335
1418Y24	72.06	36.06	24.06	38.03	29.13	72YFW	370
1418YY24	90.06	36.06	24.06	47.03	38.13	90YFW	440
1418W30	72.06	24.06	30.06	38.03	29.13	72WFW	355
1418Y30	72.06	36.06	30.06	38.03	29.13	72YFW	420
1418W36	72.06	24.06	36.06	38.03	29.13	72WFW	400
1418Y36	72.06	36.06	36.06	38.03	29.13	72YFW	465
1418YY36	90.06	36.06	36.06	47.03	38.13	90YFW	525

[1] Refers to Optional Full Height/Full Width Panels. Depth Panels & Half Height Width panels are also available...*see page* ***48***.

Dual Access

Part No.	A	B	C	F	G	Opt'l Full Panel[1]	Ship Wt. lbs.
1418WD24	72.06	24.06	24.06	38.03	29.13	72WFW	325
1418XD24	72.06	30.06	24.06	38.03	29.13	72XFW	424
1418YD24	72.06	36.06	24.06	38.03	29.13	72YFW	474
1418YYD24	90.06	36.06	24.06	47.03	38.13	90YFW	540
1418WD30	72.06	24.06	30.06	38.03	29.13	72WFW	375
1418WD36	72.06	24.06	36.06	38.03	29.13	72WFW	425
1418YD36	72.06	36.06	36.06	38.03	29.13	72YFW	495
1418YYD36	90.06	36.06	36.06	47.03	38.13	90YFW	555

[1] Refers to Optional Full Height/Full Width Panels. Depth Panels & Half Height Width panels are also available...*see page* ***48***.

Maximum Useable Depth

Single Access only
From inside surface of front door to front face of Full Width Panel
Inner Panel in Full Back Position

Enclosure Depth (In.)	Maximum Usable Depth
18.06	17.80
20.06	19.80
24.06	23.80
30.06	29.80
36.06	35.80

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1418 N4 Series Freestanding Enclosures - NEMA 4

Single Door



Panel Sold Separately

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls with provision for panel mounting or rack mounting of equipment.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a serious problem.
- A variety of inner panels, rack mounting rails and swing out frames are available to provide flexibility in mounting arrangements.

Standards

- UL 508 Type 3R, 4 and 12
- CSA Type 3R, 4 and 12
- **Complies with**
  - NEMA Type 3R, 4, 12 and 13
  - IEC 60529, IP54

Construction

- Formed 12 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Lifting eyes provide for easy enclosure handling.
- Doors are supported with heavy gauge continuous hinges.
- Doors are secured with heavy duty stainless steel clamps.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Mounting channels are welded on the inside of the enclosure for mounting of optional inner panels or rack equipment rails.
- A grounding stud is provided in the enclosure and a bonding stud is provided on the door.

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating on the outside, with white powder coating on the inside.
- Optional inner panels are finished in white powder coating.

Accessories

- Air conditioners...*see page* ***387-405***
- Breather kits...*see page* ***423***
- Door stop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Filter fans...*see page* ***408-413***
- Gland plates...*see page* ***441***
- Heaters...*see page* ***418-420***
- Inner Panels...*see page* ***48***
- Light kit...*see page* ***447***
- Panel rails...*see page* ***49***
- Swing frame...*see page* ***49***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

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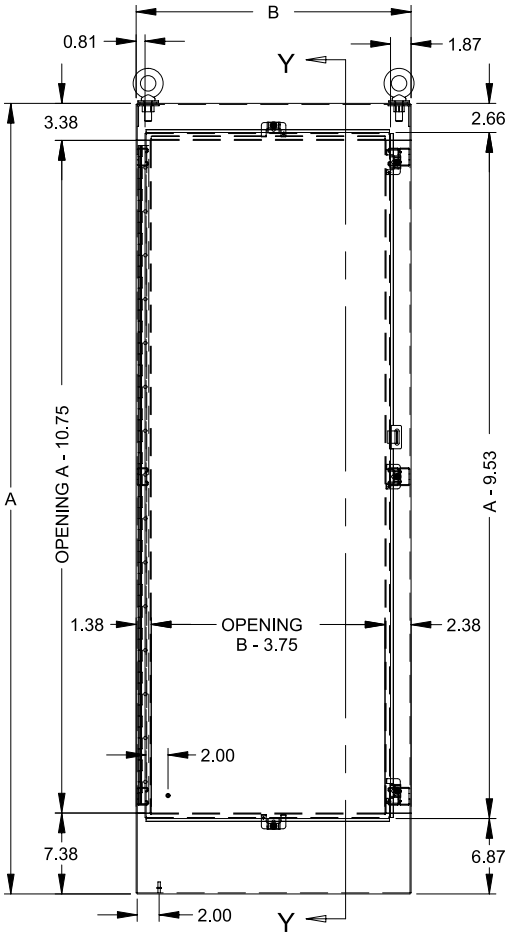
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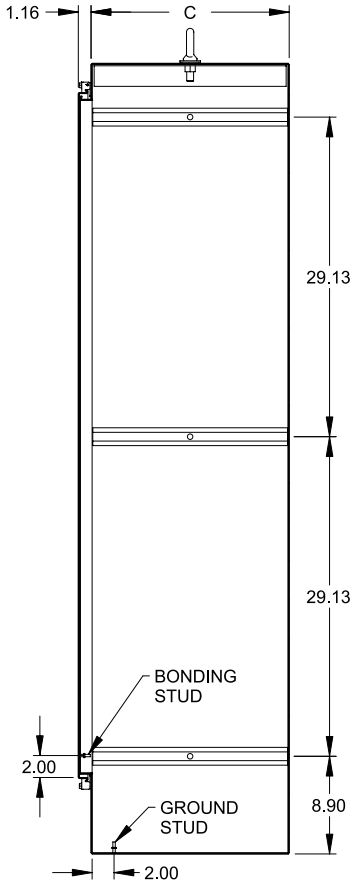
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1418 N4 Series Freestanding Enclosures - NEMA 4

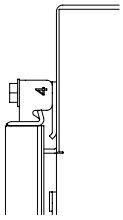
Single Door



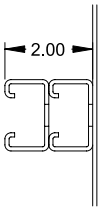
Front View



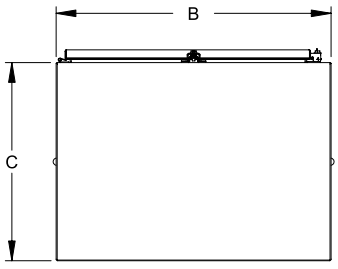
Section Y-Y



Top Lip Detail



Strut Detail - Right Side



Bottom View

Part No.	A	B	C	Optional Full Panel[1]	Ship Wt. lbs.
1418N4W18	72.06	25.06	18.06	**72WFW**	290
1418N4X24	72.06	31.06	24.06	**72XFW**	250
1418N4Y24	72.06	37.06	24.06	**72YFW**	390

[1] Refers to Optional Full Height/Full Width Panels. Depth Panels & Half Height Width panels are also available...*see page* 48.

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1418 Series Two Door Freestanding Enclosures - NEMA 12

Single or Dual Access



Panel Sold Separately

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls with provision for panel mounting or rack mounting of equipment.
- Provides a degree of protection from falling dirt, dust, oil and water.
- Available with front access only or both front and rear access.
- A variety of inner panels, rack mounting angles and swing frames are available to provide flexibility in equipment mounting.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP65

Construction

- Formed 12 gauge steel (10 gauge on back of single access enclosures).
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Stiffeners on the rear of the enclosure provide rigidity. (Single access)
- Lifting eyes provide for easy enclosure handling.
- Doors are supported with heavy gauge continuous hinges.
- Doors are secured with a three point latch and operated with a key locking automotive type handle.
- Latch rods are equipped with rollers for easier door closing.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Mounting channels are welded on the inside of the enclosure for mounting of optional inner panels or rack equipment rails.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided for the inside of the door (Two pockets are provided for dual access units).

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating on the outside, with white powder coating on the inside.
- Optional inner panels, rails, frames and supports are finished in white powder coating.

Accessories

- Air conditioners...*see page* ***387-405***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Center panel support...*see page* ***48***
- Door stop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Filter fans...*see page* ***408-413***
- Floor stand kits...*see page* ***448***
- Gland plates...*see page* ***441***
- Heaters...*see page* ***418-420***
- Inner Panels...*see page* ***48***
- Light kit...*see page* ***447***
- Louvered ventilating plates ...*see page* ***450***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

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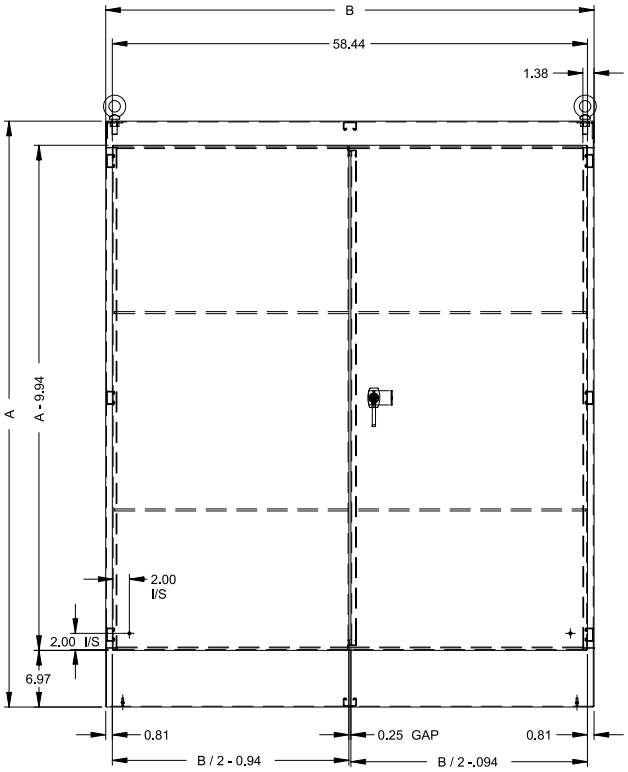
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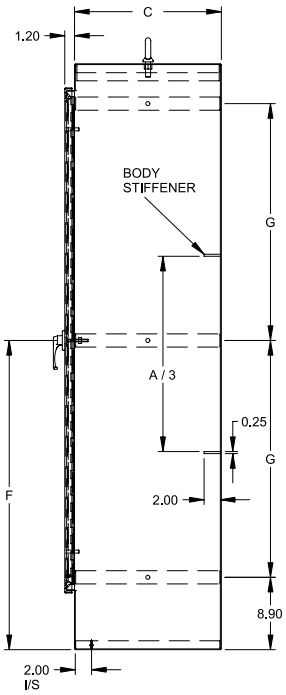
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1418 Series Two Door Freestanding Enclosures - NEMA 12

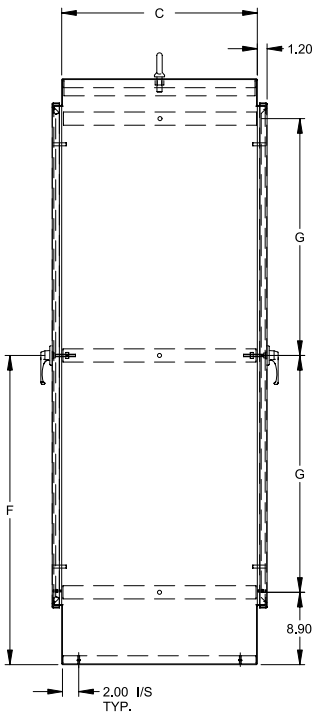
Single or Dual Access



Single or Dual Access - Front View



Single Access - Side View



Dual Access - Side View

Note: 4 eyebolts are provided for 36.06" deep enclosures (both dual and single access)

Single Access

Part No.	A	B	C	F	G	Optional Full Panel[1]	Ship Wt. lbs.
1418AW18	60.06	48.06	18.06	32.03	23.13	60AWFW	550
1418ZW18	72.06	48.06	18.06	38.03	29.13	72ZWFW	575
1418ZX18	72.06	60.06	18.06	38.03	29.13	72ZXFW	625
1418ZY18	72.06	72.06	18.06	38.03	29.13	72ZYFW	700
1418BW20	90.06	48.06	20.06	47.03	38.13	90BWFW	650
1418BY20	90.06	72.06	20.06	47.03	38.13	90BYFW	900
1418BY24	90.06	72.06	24.06	47.03	38.13	90BYFW	950
1418ZW24	72.06	48.06	24.06	38.03	29.13	72ZWFW	600
1418ZX24	72.06	60.06	24.06	38.03	29.13	72ZXFW	650
1418ZY24	72.06	72.06	24.06	38.03	29.13	72ZYFW	740
1418ZX36	72.06	60.06	36.06	38.03	29.13	72ZXFW	850
1418BY36	90.06	72.06	36.06	47.03	38.13	90BYFW	1100

[1] Refers to Optional Full Height/Full Width Panels. Depth Panels & Half Height Width panels are also available...*see page* **48**.

Dual Access

Part No.	A	B	C	F	G	Optional Full Panel[1]	Ship Wt. lbs.
1418ZWD24	72.06	48.06	24.06	38.03	29.13	72ZWFW	625
1418ZXD24	72.06	60.06	24.06	38.03	29.13	72ZXFW	650
1418ZYD24	72.06	72.06	24.06	38.03	29.13	72ZYFW	725
1418BYD24	90.06	72.06	24.06	47.03	38.13	90BYFW	1000
1418ZXD36	72.06	60.06	36.06	38.03	29.13	72ZXFW	900

[1] Refers to Optional Full Height/Full Width Panels. Depth Panels & Half Height Width panels are also available...*see page* **48**.

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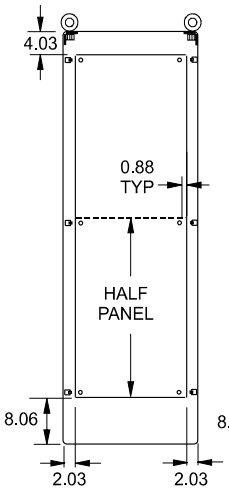
1418 Series Freestanding Enclosures - NEMA 4, 12

Accessories

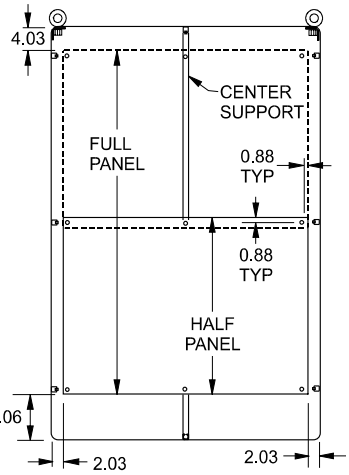
Inner Panels

- Formed from 10 gauge or 12 gauge steel.
- All double door width panels are 10 gauge steel.
- Width panels are available in full or half height.
- Depth panels are available in full height only.
- Depth and width panels are provided with all mounting hardware and center support where required.
- Half panel can be mounted in the top or bottom half of the enclosure.
- Finished in white.





Front View Single Door



Front View Double Door

Single Door Width Panels

Part No.	Description	Enclosure	Panel Size
60TWFW	Full Panel	60 x 24	48.00 x 20
60TWHW	Half Panel		24.87 x 20
72WFW	Full Panel	72 x 24	60.00 x 20
72WHW	Half Panel		30.87 x 20
90YWFW	Full Panel	90 x 24	78.00 x 20
90YWHW	Half Panel		39.87 x 20
72XFW	Full Panel	72 x 30	60.00 x 26
72XHW	Half Panel		30.87 x 26
60TYFW	Full Panel	60 x 36	48.00 x 32
60TYHW	Half Panel		24.87 x 32
72YFW	Full Panel	72 x 36	60.00 x 32
72YHW	Half Panel		30.87 x 32
90YFW	Full Panel	90 x 36	78.00 x 32
90YHW	Half Panel		39.87 x 32

Double Door Width Panels

Part No.	Description	Enclosure	Panel Size
60AWFW	Full Panel	60 x 48	48.00 x 44
60AWHW	Half Panel		24.88 x 44
72ZWFW	Full Panel	72 x 48	60.00 x 44
72ZWHW	Half Panel		30.88 x 44
72ZXFW	Full Panel	72 x 60	60.00 x 56
72ZXHW	Half Panel		30.88 x 56
72ZYFW	Full Panel	72 x 72	60.00 x 68
72ZYHW	Half Panel		30.88 x 68
90BWFW	Full Panel	90 x 48	78.00 x 44
90BWHW	Half Panel		39.88 x 44
90BYFW	Full Panel	90 x 72	78.00 x 68
90BYHW	Half Panel		39.88 x 68

Depth Panels

Part No.	Encl. Height	Encl. Min Depth	Panel W	Panel H
60FD14	60	18	14	48
72FD9	72	18	9	60
72FD14	72	18	14	60
72FD20	72	24	20	60
72FD26	72	36	26	60
90FD9	90	18	9	78
90FD14	90	18	14	78
90FD20	90	24	20	78
90FD26	90	36	26	78

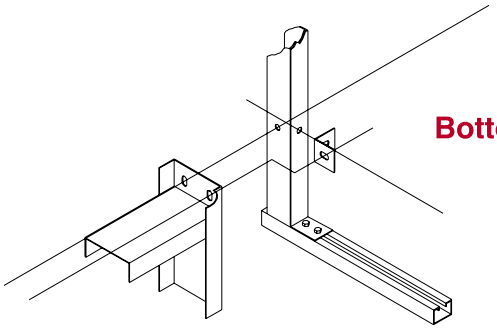
Side Mounted Panels for Single and Double Door Enclosures

1418 CS Series Center Panel Supports

- Adapts panels, swing frames, and panel rails from single door enclosures so they can be used on double door enclosures.
- Suitable for single or dual access double door enclosures.
- Center panel support mounts into front to back mounting channels (top and bottom) found in two door enclosures.
- Allows a combination of two 20" panels in a 48" wide enclosure, two 26" panels in a 60" wide enclosure, or two 32" panels in a 72" wide enclosure.
- Width is adjustable from 1.91" to 2.34".
- Support may be positioned at any depth within the enclosure.
- Finished in white.

Part No.	Enclosure Ht.
1418ACS	60
1418ZCS	72
1418BCS	90





Bottom View

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1418 Series Freestanding Enclosures - NEMA 4, 12

Accessories

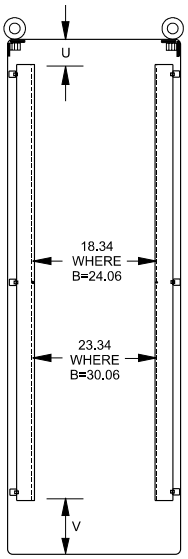
Panel Rails

- Provides 19" or 24" mounting capability.
- Sold in **pairs**.
- Formed from 10 gauge steel.
- Drilled and tapped 10-32 to EIA spacing of 0.5" - 0.63" - 0.63" - 0.5".
- Finished in white.

Electronic Industries Alliance

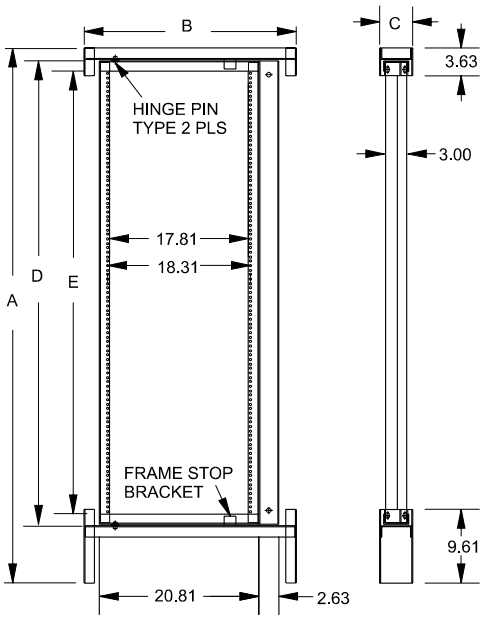
Hardware Included

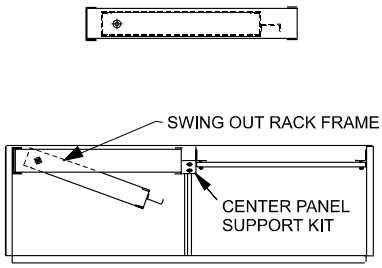
Part No.	Panel Description	Enclosure	Width	Panel Height	U	V
1418TFHP	Full Height	60 x 24	19	49.00	3.78	7.78
1418THHP	Half Height			26.25	3.59	7.59
1418WFHP	Full Height	72 x 24	19	61.25	3.66	7.66
1418WHHP	Half Height			31.50	3.97	7.67
1418XFHP	Full Height	72 x 30	24	61.25	3.66	7.66
1418XHHP	Half Height			31.50	3.97	7.67
1418YYFHP	Full Height	90 x 24	19	78.75	3.91	7.91
1418YYHHP	Half Height			40.25	4.09	8.09



Swing Out Frames For 19" Rack Mounting

- Formed from 10 gauge steel, frames are drilled and tapped to EIA requirements for mounting standard 19" rack accessories.
- Designed for installation in 72" and 90" high enclosures. The swing frame pivots on 0.5" pins within the enclosure for easy access to the rear of rack mounted equipment.
- The frame positions at any depth within the enclosure and is fastened in the closed position with quarter turn fasteners.
- Swing frames may be mounted in 30" and 36" wide enclosures, or in 60" and 72" wide enclosures with an optional center panel support...*see page **48***.
- One or two frames may be mounted in 30" and 36" wide enclosures with dual access, and 1,2,3 or 4 frames may be mounted in 60" and 72" wide dual access enclosures.
- Finished in black.





Section View from Top of Cabinet

Electronic Industries Alliance

Hardware Included

Part No.	A	B	C	D	E	Enclosure Height	Width Single Door	Width Double Door	Center Support
1418SFYY	87.86	33.72	4.28	78.5	75.31	90	36	72	1418 BCS
1418SFY	69.86	33.72	4.28	60.5	57.81	72	36	72	1418 ZCS
1418SFX	69.86	27.72	4.28	60.5	57.81	72	30	60	1418 ZCS

Note: When using a swing out frame on a double door enclosure, a Center Panel Support must also be used and ordered separately...*see previous page*.

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1422 MD Series Multiple Door Enclosures - NEMA 12

Continuous Hinge, Padlockable Doors



Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - JIC EGP-1-1967
  - IEC 60529, IP54

Construction

- Formed 10 gauge steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Heavy duty body stiffeners are provided for extra rigidity.
- Reinforced eyebolts are provided for easy enclosure lifting.
- Double door openings have gasketed overlapping doors, eliminating the need for a center post.
- Continuously hinged doors may be removed by pulling the hinge pin.
- Doors are secured with a three point latch and operated with a vault type padlocking handle.

Construction...cont'd

- Latch rods are equipped with rollers for easier door closing.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Removable 10 gauge inner panels are included in the enclosures.
- 3 door units have 2 panels (34" x 78" and 70" x 78").
- 4 door units have 2 panels (70" x 78" each).
- 5 door units have 3 panels (one 34" x 78" and two 70" x 78").
- Slave doors have mechanical interlock and cannot be opened unless the master door is open.
- Panel supports are provided in enclosures for easy panel installation.
- Collar studs are provided for mounting inner panels.
- A grounding stud is provided in the enclosure for each door and a bonding stud is provided on the door.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating on the outside, with white powder coating on the inside.
- Removable inner panels are finished in white powder coating.

Accessories

- Air conditioners...see page 387-405
- Blowers...see page 406
- Breather kits...see page 423
- Door stop kits...see page 447
- Filter fans...see page 408-413
- Gland plates...see page 441
- Heaters...see page 418-420
- Louvered ventilating plates ...see page 450
- Thermostats...see page 421
- Window kits...see page 444

Part No.	A	B	C	Ship Wt. lbs.
1422MD3	86.12	112.00	14.12	1850
1422MD4	86.12	149.12	14.12	2270
1422MD5	86.12	187.00	14.12	2900

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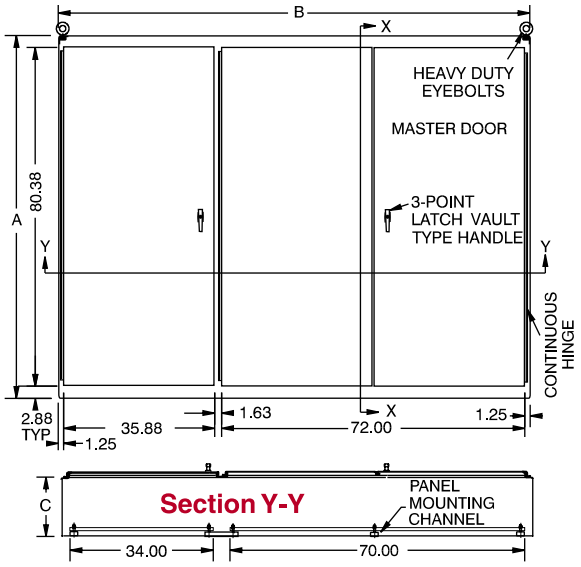
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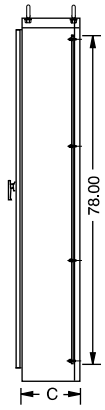
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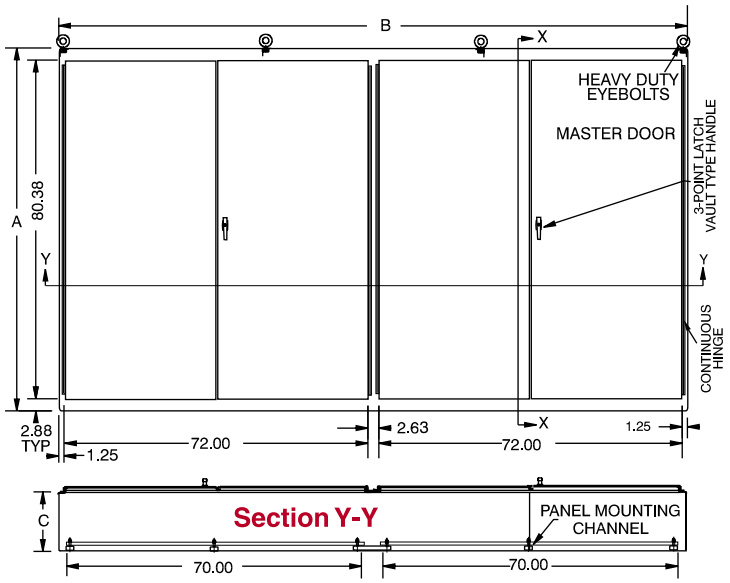
1422 MD Series Multiple Door Enclosures - NEMA 12

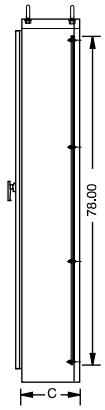
Continuous Hinge, Padlockable Doors



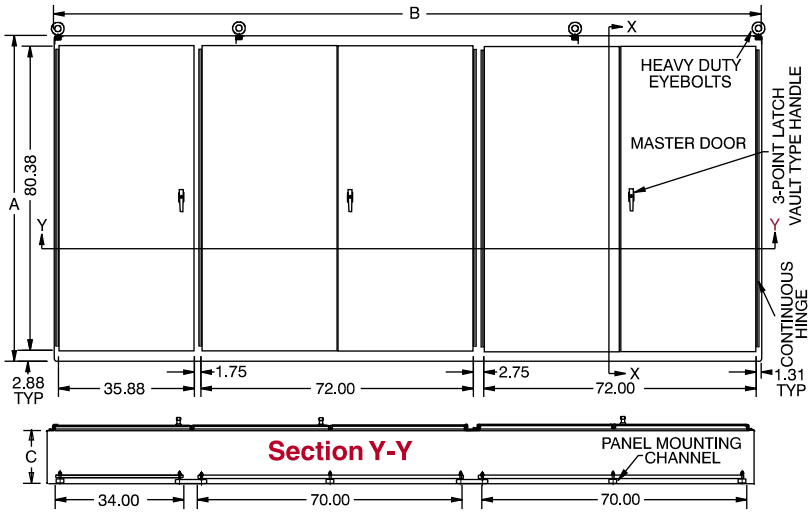


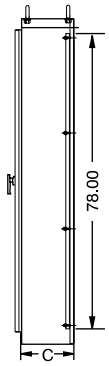
Section X-X





Section X-X





Section X-X

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1414 N4 AL Aluminum Series - Lift-Off Cover
NEMA 4 ..... **54**


1590Z Diecast Aluminum Enclosures - Watertight, Thick Wall
NEMA 4X **56**


R100 Diecast Aluminum Enclosures -
NEMA 4X **58**


1418 Series Single Door Aluminum Enclosures Continuous Hinge, Clamped Cover
NEMA 4 ..... **60**


Eclipse Junior Series Stainless Steel Enclosures Single Door Enclosures
NEMA 4X **62**


1414 N4 PHSS Series 304 Stainless Steel Enclosures Continuous Hinge, Clamped Cover
NEMA 4X **64**

1414 N4 PHSS Series 316 Stainless Steel Enclosures Continuous Hinge, Clamped Cover
NEMA 4X **66**


1414 N4 304 SS Stainless Steel Enclosures - Lift-Off, Clamped Cover
NEMA 4X **68**


Eclipse Series, 304 Stainless Steel - Single Door Enclosures
NEMA 4X **70**

Eclipse Series, 316 Stainless Steel - Single Door Enclosures
NEMA 4X **72**


Eclipse Series, 304 Stainless Steel - Single Window Door Enclosures
NEMA 4X **74**


Eclipse Sloped Top Series, 304 Stainless Steel Single Top Enclosures
NEMA 4X **76**

Eclipse Series Accessories **78-81**


1418 Series 304 Stainless Steel Single Door Enclosures, Continuous Hinge, Clamped Cover
NEMA 4X **82**

1418 Series 316 Stainless Steel Single Door Enclosures, Continuous Hinge, Clamped Cover
NEMA 4X **84**

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Corrosion Resistant Enclosures


1422 Series 304 Stainless Steel
Two Door Floor Mount, Continuous Hinge
NEMA 4X.....**86**

1422 Series 316 Stainless Steel
Two Door Floor Mount, Continuous Hinge
NEMA 4X.....**88**


1418 Series 304 Stainless Steel
Freestanding Enclosures, Single Door
NEMA 4X.....**90**

1418 Series 316 Stainless Steel
Freestanding Enclosures, Single Door
NEMA 4X.....**92**

1418 Series Accessories.....**94-95**


1554 Series Polycarbonate Enclosure -
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PB Series Polyester Modular Enclosures -
Clear Cover
NEMA 4X.....**98**


PB Series Polyester Modular Enclosures -
Solid Cover
NEMA 4X.....**100**

PB Series Accessories.....**102-103**


R130 Series Polyester Modular Enclosures -
NEMA 4X.....**104**


1590ZGRP Series Polyester Modular Enclosures
NEMA 4X.....**106**


PJ Series Polyester Modular Enclosures -
Lift-Off and Hinged Screw Cover
NEMA 4X.....**108**


PJ Series Polyester Modular Enclosures -
Snap & Twist Latch Hinged Cover
NEMA 4X.....**110**


PJ Series Polyester Modular Enclosures -
Lift-Off, Hinged, Snap Latch, Twist Latch,
Window Cover
NEMA 4X.....**112**


PJ Series Polyester Modular Enclosures -
Raised Lift-Off, Hinged Cover,
Solid & Window Door
NEMA 4X.....**114**


PJ Series Polyester Modular Enclosures -
Raised Lid Snap Latch, Hinged Cover,
Solid & Window Door
NEMA 4X.....**116**


PJ Series Polyester Modular Enclosures -
Raised Lid Twist Latch, Hinged Cover,
Solid & Window Door
NEMA 4X.....**118**


PJU Series Polyester Modular Enclosures -
Snap Latch, Hinged Cover, Solid and Window
Door
NEMA 4X.....**120**


PJU Series Polyester Modular Enclosures -
Twist Latch, Hinged Cover, Solid and Window
Door
NEMA 4X.....**122**


PJU Series Polyester Modular Enclosures -
Lift-Off, Solid and Window Door
NEMA 4X.....**124**


PJU Series Polyester Modular Enclosures -
Hinged Screw Cover, Solid and Window Door
NEMA 4X.....**126**

PJU Series Polyester Modular Enclosures -
Enclosure with Viewing Window
NEMA 4X.....**128**


PJW Series Polyester Modular Enclosures -
Continuous Hinge Wallmount
NEMA 4X.....**130**


PJFS Series Polyester Modular Enclosures -
Continuous Hinge Freestanding
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PW Series Polyester Modular Enclosures -
Wallmount Enclosures
NEMA 4X.....**134**

PW Series Accessories.....**136-139**


PHW Series Polyester Modular Enclosures -
Heavy Duty Wallmount Enclosures
NEMA 4X.....**140**

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1414 N4 AL Aluminum Series - NEMA 4

Lift-Off Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a problem.

Standards

- UL 508 Type 4 and 12
- CSA Type 4 and 12
- **Complies with**
  - NEMA Type 4, 12, and 13
  - IEC 60529, IP66

Construction

- Formed from 0.08" Type 5052 H-32 aluminum.
- Sizes smaller than 6" x 6" are formed from 0.06" aluminum.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Welded brackets provide for enclosure mounting.
- Cover is secured with easily operated aluminum clamps.
- Oil resistant gaskets are permanently secured with oil resistant adhesive.
- All models larger than 4" x 4" include a removable 14 gauge inner panel.
- Tapped studs are provided for mounting inner panels.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are natural unfinished aluminum.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels *...see page* ***433***
- Breather kits*...see page* ***423***
- Door clamping hardware *...see page* ***427***
- Heaters*...see page* ***418-420***
- Terminal kit assemblies *...see page* ***436***
- Thermostats*...see page* ***421-422***
- Window kits*...see page* ***444***

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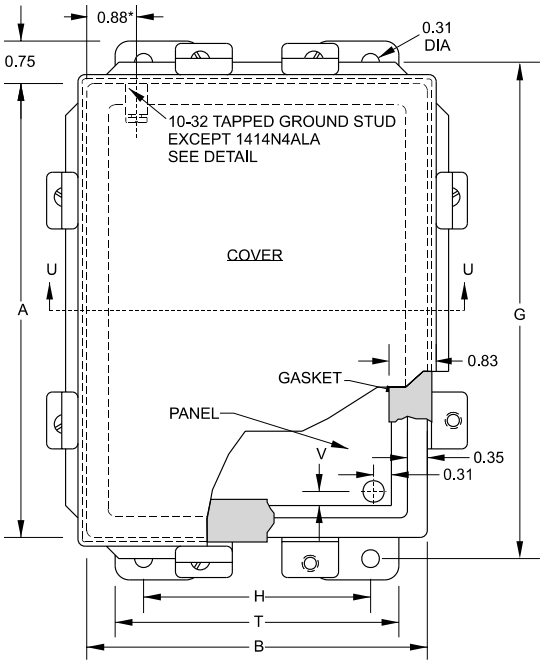
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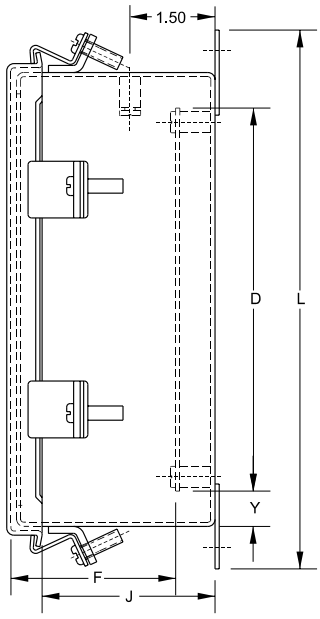
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1414 N4 AL Aluminum Series - NEMA 4

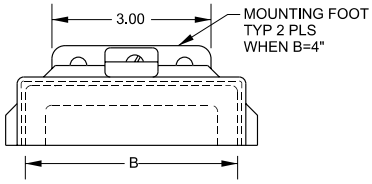
Lift-Off Cover



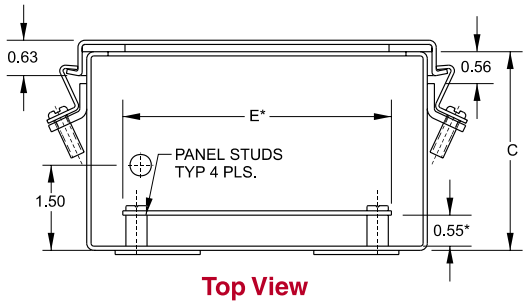
Front View



Side View

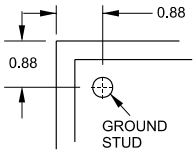


Mounting Foot Detail



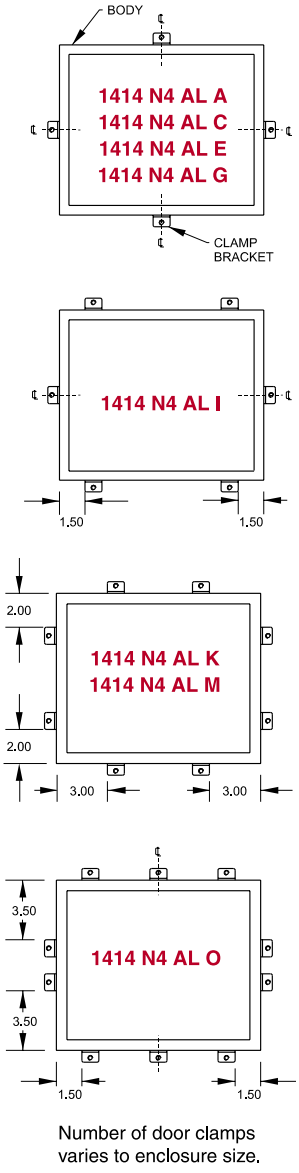
Top View

* Does not apply to 1414N4ALA



Ground Stud Location

1414N4ALA Only



Number of door clamps varies to enclosure size.

Part No.	Panel Dimensions						Centers			Cover Dimensions					Ship Wt.lbs.
	A	B	C	D	E	F	G	H	J	L		T	V	Y	
1414N4ALA	4	4	3.0	—	—	—	4.75	2	2.6	5.5	4.31	4.31	3	—	—	1
1414N4ALC	6	4	3.0	4.88	2.88	2.5	6.75	2	2.6	7.5	6.31	4.31	3	.31	.56	2
1414N4ALE	6	6	4.0	4.88	4.88	3.5	6.75	4	3.6	7.5	6.31	6.31	5	.31	.56	3
1414N4ALG	8	6	3.5	6.75	4.88	3.0	8.75	4	3.1	9.5	8.31	6.31	5	.25	.63	3
1414N4ALI	10	8	4.0	8.75	6.88	3.5	10.75	6	3.6	11.5	10.31	8.31	7	.25	.63	5
1414N4ALK	12	10	5.0	10.75	8.88	4.5	12.75	8	4.6	13.5	12.31	10.31	9	.25	.63	8
1414N4ALM6	14	12	6.0	12.75	10.88	5.5	14.75	10	5.6	15.5	14.31	12.31	11	.25	.63	10
1414N4ALO6	16	14	6.0	14.75	12.88	5.5	16.75	12	5.6	17.5	16.31	14.31	13	.25	.63	13
1414N4ALM8	14	12	8.0	12.75	10.88	7.5	14.75	10	7.6	15.5	14.31	12.31	11	.25	.63	11
1414N4ALO10	16	14	10.0	14.75	12.88	9.5	16.75	12	9.6	17.5	16.31	14.31	13	.25	.63	15

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1590Z Diecast Aluminum Enclosures - NEMA 4X

Watertight, Thick Wall



Application

- Designed for use as electronic instrument enclosures, electrical junction boxes or terminal wiring enclosures.

Standards

- UL 508 Type 4X
- **Complies with**
  - IP66

Construction

- Rugged diecast aluminum alloy BS1490, LM6.
- Two piece "tongue & groove" construction with a neoprene gasket provides protection against dust accumulation and water.
- Ideal for repetitive opening and closing.
- Four recessed stainless steel machine screws secure lid into tapped holes. Screws are self captivating using either individual neoprene "O" rings (outside the lid gasket seal) or using screw captivating lid.
- Copper ground screws and washers included.
- Easy wall mounting with "through box, blind hole" construction.
- Neoprene gasket mounts into cast lid groove.
- Models 1590Z100, 1590Z120, 1590Z150 and 1590Z160 include mounting shelves and 6 drilled and tapped holes for mounting or grounding.
- Models 1590Z110, 1590Z130 and 1590Z135 include 2 drilled and tapped holes for mounting or grounding.
- Models 1590Z135 and 1590X160 also include a drilled and tapped grounding hole in the lid.

Finish

- Painted versions are finished in RAL 7001 gray or black powder coating inside and out.
- Unpainted versions are a natural unfinished aluminum.

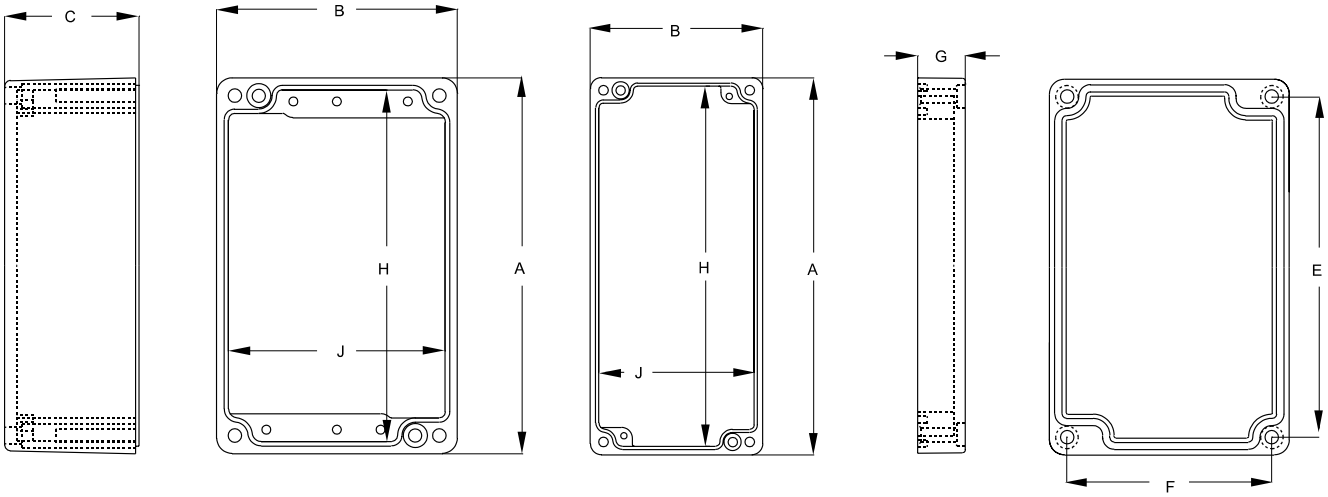
Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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1590Z Diecast Aluminum Enclosures - NEMA 4X

Watertight, Thick Wall



Side View | **Body Inside View with mounting shelf** | **Body Inside View without mounting shelf** | **Lid Side View** | **Lid Inside View**

Unpainted Part No.	Black Part No.	Gray Part No.	Units	A	B	(No Lid) C	Dimensions E	F	G	H	J	Lid Grounding Screw	Shelf
1590Z060	**1590Z060BK**	**1590Z060GY**	inch	1.98	1.77	0.95	1.62	1.44	0.24	1.77	1.57	Yes	No
			mm	*50*	*45*	*24*	*41*	*37*	*6*	*45*	*40*		
1590Z061	**1590Z061BK**	**1590Z061GY**	inch	2.51	2.29	1.03	2.04	1.8	0.39	2.21	1.97	No	No
			mm	*64*	*58*	*26*	*52*	*46*	*10*	*56*	*50*		
1590Z062	**1590Z062BK**	**1590Z062GY**	inch	3.86	2.52	1.03	3.4	2	0.39	3.5	2.2	No	No
			mm	*98*	*64*	*26*	*86*	*52*	*10*	*90*	*56*		
1590Z100	**1590Z100BK**	**1590Z100GY**	inch	2.94	3.14	1.57	2.49	2.68	0.47	2.64	2.84	No	Yes
			mm	*75*	*80*	*40*	*63*	*68*	*12*	*67*	*72*		
1590Z110	**1590Z110BK**	**1590Z110GY**	inch	2.94	3.14	1.57	2.49	2.68	0.47	2.64	2.84	No	No
			mm	*75*	*80*	*40*	*63*	*68*	*12*	*67*	*72*		
1590Z119	**1590Z119BK**	**1590Z119GY**	inch	4.8	4.72	2.36	4.14	4.09	0.81	4.45	4.36	Yes	Yes
			mm	*122*	*120*	*60*	*105*	*104*	*20*	*113*	*111*		
1590Z120	**1590Z120BK**	**1590Z120GY**	inch	4.92	3.15	1.72	4.46	2.68	0.62	4.61	2.84	No	Yes
			mm	*125*	*82*	*43*	*113*	*68*	*15*	*117*	*72*		
1590Z063	**1590Z063BK**	**1590Z063GY**	inch	5.89	2.51	1.03	5.42	2.02	0.39	5.6	2.2	No	No
			mm	*150*	*64*	*26*	*138*	*51*	*10*	*142*	*56*		
1590Z130	**1590Z130BK**	**1590Z130GY**	inch	6.89	3.15	1.61	6.43	2.68	0.47	6.56	2.84	No	No
			mm	*175*	*80*	*40*	*163*	*68*	*12*	*167*	*72*		
1590Z135	**1590Z135BK**	**1590Z135GY**	inch	6.89	3.15	1.61	6.43	2.68	0.79	6.56	2.84	Yes	No
			mm	*175*	*80*	*40*	*163*	*68*	*20*	*167*	*72*		
1590Z160	**1590Z160BK**	**1590Z160GY**	inch	6.3	6.3	2.76	5.55	5.55	0.79	5.98	5.98	Yes	Yes
			mm	*160*	*160*	*70*	*141*	*141*	*20*	*152*	*152*		
1590Z150	**1590Z150BK**	**1590Z150GY**	inch	8.7	4.76	2.39	8.07	4.09	0.79	8.31	4.37	No	Yes
			mm	*220*	*120*	*60*	*205*	*104*	*20*	*211*	*111*		
1590Z162	**1590Z162BK**	**1590Z162GY**	inch	10.24	6.25	2.75	9.38	5.5	0.79	9.83	5.94	Yes	Yes
			mm	*260*	*159*	*70*	*238*	*140*	*20*	*249*	*151*		
1590Z231	**1590Z231BK**	**1590Z231GY**	inch	7.88	8.71	3.63	7.1	8.28	0.8	7.62	8.45	Yes	Yes
			mm	*200*	*221*	*92*	*180*	*210*	*20*	*194*	*215*		

Inches are for reference only. Use metric for precise measurements.

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R100 Diecast Aluminum Enclosures - NEMA 4X



C SA US

Standards

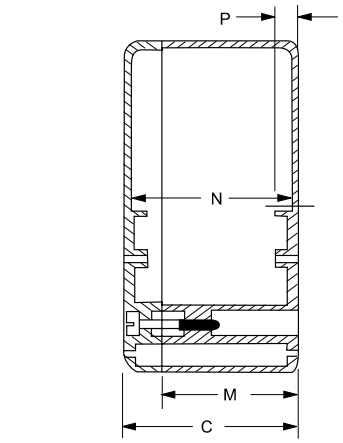
- CSA-US Type 4
- **Complies with**
  - IEC 60529, IP66

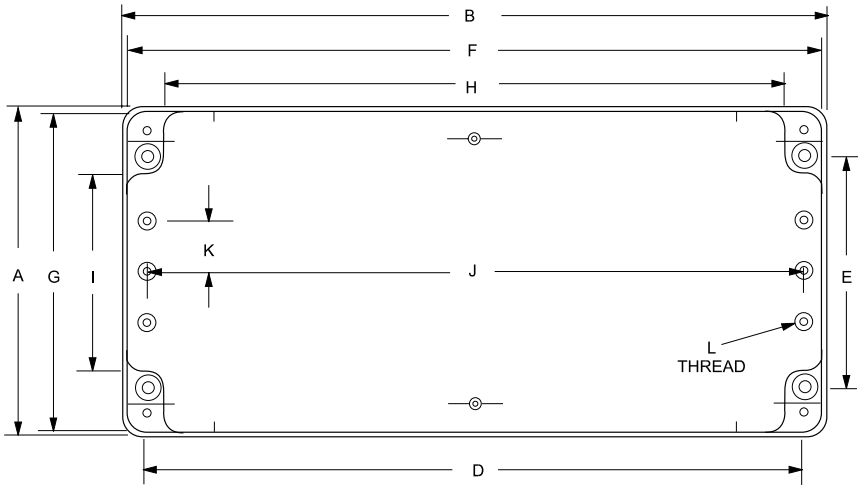
Construction

- Aluminum diecast G Al Si 12 / DIN 1725, Leg 230
- Captive stainless steel lid screws are standard.
- Neoprene oil and petrol resistant gasket standard.
- Temperature range -30°C to +100°C (-22°F to +212°F).
- Single-channel Fastening System. Trouble-free turning 90° to 90° with square enclosures by synchronous arrangement of channels.

Finish

- Textured polyester powder coat, beige RAL 7032.





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All dimensions in inches unless specified otherwise

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R100 Diecast Aluminum Enclosures - NEMA 4X

Part No.	Series	Units	Width A	Length B	Height C	D	E	F	G	H	I	J	K	L	M	N	P
R100-060-000	AS-060	inch	2.56	1.97	1.57	1.50	2.09	1.67	2.26	1.28	1.48	1.34	0.96	*M4*	1.10	1.38	0.35
		mm	*65*	*50*	*40*	*38*	*53*	*43*	*58*	*33*	*38*	*34*	*25*		*28*	*35*	*9*
R100-062-000	AS-062	inch	2.56	2.56	1.57	2.09	2.09	2.26	2.26	1.48	1.48	1.93	0.55	*M4*	1.10	1.34	0.35
		mm	*65*	*65*	*40*	*53*	*53*	*58*	*58*	*38*	*38*	*49*	*14*		*28*	*34*	*9*
R100-064-000	AS-064	inch	2.56	3.94	1.57	3.46	2.09	3.64	2.26	2.85	1.48	3.31	0.55	*M4*	1.10	1.34	0.35
		mm	*65*	*100*	*40*	*88*	*53*	*93*	*58*	*73*	*38*	*84*	*14*		*28*	*34*	*9*
R100-066-000	AS-066	inch	2.56	5.91	1.57	5.43	2.09	5.61	2.26	4.82	1.48	5.28	0.55	*M4*	1.10	1.34	0.35
		mm	*65*	*150*	*40*	*138*	*53*	*143*	*58*	*123*	*38*	*134*	*14*		*28*	*34*	*9*
R100-080-000	AS-080	inch	3.15	3.15	2.36	2.64	2.64	2.78	2.78	1.93	1.93	2.28	0.77	*M4*	1.57	2.13	0.39
		mm	*80*	*80*	*60*	*67*	*67*	*71*	*71*	*49*	*49*	*58*	*20*		*40*	*54*	*10*
R100-082-000	AS-082	inch	3.15	4.72	2.36	4.21	2.64	4.35	2.78	3.54	1.93	3.86	0.77	*M4*	1.57	2.13	0.39
		mm	*80*	*120*	*60*	*107*	*67*	*111*	*71*	*90*	*49*	*98*	*20*		*40*	*54*	*10*
R100-084-000	AS-084	inch	3.15	6.30	2.36	5.79	2.64	5.93	2.78	5.43	1.93	5.43	0.77	*M4*	1.57	2.13	0.39
		mm	*80*	*160*	*60*	*147*	*67*	*151*	*71*	*138*	*49*	*138*	*20*		*40*	*54*	*10*
R100-100-000	AS-100	inch	3.94	3.94	3.15	3.43	3.43	3.54	3.54	2.74	2.74	3.07	1.16	*M4*	2.09	2.91	0.39
		mm	*100*	*100*	*80*	*87*	*87*	*90*	*90*	*70*	*70*	*78*	*30*		*53*	*74*	*10*
R100-102-000	AS-102	inch	3.94	5.91	3.15	5.39	3.43	5.51	3.54	4.70	2.74	5.04	1.16	*M4*	2.09	2.91	0.39
		mm	*100*	*150*	*80*	*137*	*87*	*140*	*90*	*120*	*70*	*128*	*30*		*53*	*74*	*10*
R100-104-000	AS-104	inch	3.94	7.87	3.15	7.36	3.43	7.48	3.54	6.67	2.74	7.01	1.16	*M4*	2.09	2.91	0.39
		mm	*100*	*200*	*80*	*187*	*87*	*190*	*90*	*170*	*70*	*178*	*30*		*53*	*74*	*10*
R100-120-000	AS-120	inch	4.72	4.72	3.94	4.02	4.02	4.29	4.29	3.15	3.15	3.62	1.26	*M6*	2.64	3.62	0.51
		mm	*120*	*120*	*100*	*102*	*102*	*109*	*109*	*80*	*80*	*92*	*32*		*67*	*92*	*13*
R100-122-000	AS-122	inch	4.72	7.09	3.94	6.38	4.02	6.65	4.29	5.51	3.15	5.98	1.26	*M6*	2.64	3.62	0.51
		mm	120	180	100	162	102	169	109	140	80	152	32		67	92	13
R100-124-000	AS-124	inch	4.72	9.45	3.94	8.74	4.02	9.02	4.29	7.87	3.15	8.35	1.26	*M6*	2.64	3.62	0.51
		mm	*120*	*240*	*100*	*222*	*102*	*229*	*109*	*200*	*80*	*212*	*32*		*67*	*92*	*13*
R100-160-000	AS-160	inch	6.30	6.30	3.94	5.59	5.59	5.87	5.87	4.74	4.76	5.20	2.05	*M6*	2.64	3.62	0.51
		mm	160	160	100	142	142	149	149	121	121	132	52		67	92	13
R100-162-000	AS-162	inch	6.30	9.45	3.94	8.74	5.59	9.02	5.87	7.87	4.72	8.39	2.05	*M6*	2.64	3.62	0.51
		mm	*160*	*240*	*100*	*222*	*142*	*229*	*149*	*200*	*120*	*213*	*52*		*67*	*92*	*13*
R100-164-000	AS-164	inch	6.30	12.60	3.94	11.89	5.59	12.17	5.87	11.02	4.72	11.50	2.05	*M6*	2.64	3.62	0.51
		mm	*160*	*320*	*100*	*302*	*142*	*309*	*149*	*280*	*120*	*292*	*52*		*67*	*92*	*13*
R100-166-000	AS-166	inch	6.30	18.90	3.94	18.19	5.59	18.43	5.83	17.28	4.69	17.80	2.05	*M6*	2.64	3.58	0.51
		mm	*160*	*480*	*100*	*462*	*142*	*468*	*148*	*439*	*119*	*452*	*52*		*67*	*91*	*13*
R100-200-000	AS-200	inch	7.87	7.87	4.72	7.09	7.09	7.40	7.40	6.08	6.10	6.61	2.64	*M6*	3.15	4.41	0.51
		mm	*200*	*200*	*120*	*180*	*180*	*188*	*188*	*155*	*155*	*168*	*67*		*80*	*112*	*13*
R100-202-000	AS-202	inch	7.87	11.81	4.72	11.02	7.09	11.34	7.40	10.02	6.10	10.55	2.64	*M6*	3.15	4.41	0.51
		mm	*200*	*300*	*120*	*280*	*180*	*288*	*188*	*255*	*155*	*268*	*67*		*80*	*112*	*13*
R100-204-000	AS-204	inch	7.87	15.75	4.72	14.96	7.09	15.28	7.40	13.96	6.10	14.49	2.64	*M6*	3.15	4.37	0.51
		mm	*200*	*400*	*120*	*380*	*180*	*388*	*188*	*355*	*155*	*368*	*67*		*80*	*111*	*13*
R100-240-000	AS-240	inch	9.45	9.45	4.72	8.66	8.66	8.98	8.98	7.66	7.68	8.19	3.43	*M6*	3.15	4.41	0.51
		mm	*240*	*240*	*120*	*220*	*220*	*228*	*228*	*195*	*195*	*208*	*87*		*80*	*112*	*13*
R100-242-000	AS-242	inch	9.45	14.17	4.72	13.39	8.66	13.70	8.98	12.38	7.68	12.91	3.43	*M6*	3.15	4.37	0.51
		mm	*240*	*360*	*120*	*340*	*220*	*348*	*228*	*315*	*195*	*328*	*87*		*80*	*111*	*13*
R100-244-000	AS-244	inch	9.45	18.90	4.72	18.11	8.66	18.43	8.98	17.11	7.68	17.64	3.43	*M6*	3.15	4.37	0.51
		mm	*240*	*480*	*120*	*460*	*220*	*468*	*228*	*435*	*195*	*448*	*87*		*80*	*111*	*13*
R100-320-000	AS-320	inch	12.60	12.60	4.72	11.81	11.81	12.13	12.13	10.81	10.83	11.34	5.00	*M6*	3.15	4.37	0.51
		mm	*320*	*320*	*120*	*300*	*300*	*308*	*308*	*275*	*275*	*288*	*127*		*80*	*111*	*13*
R100-322-000	AS-322	inch	12.60	18.90	4.72	18.11	11.81	18.43	12.13	17.11	10.83	17.64	5.00	*M6*	3.15	4.37	0.51
		mm	*320*	*480*	*120*	*460*	*300*	*468*	*308*	*435*	*275*	*448*	*127*		*80*	*111*	*13*
R100-324-000	AS-324	inch	12.60	25.20	4.72	24.41	11.81	24.72	12.13	23.41	10.83	23.94	5.00	*M6*	3.15	4.37	0.51
		mm	*320*	*640*	*120*	*620*	*300*	*628*	*308*	*595*	*275*	*608*	*127*		*80*	*111*	*13*

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Data Subject to change without notice

1418 Series Single Door Aluminum Enclosures - NEMA 4

Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion may be a problem.

Standards

- UL 508 Type 4 and 12 as marked[1]
- CSA Type 4 and 12
- **Complies with**
  - NEMA Type 4, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Formed from 0.10" Type 5052 H-32 aluminum.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Door and body stiffeners are provided in the larger enclosures for extra rigidity.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure excludes flowing liquids and contaminants.
- Aluminum continuous hinge on door may be removed by pulling the aluminum hinge pin.
- Door is secured with easily operated aluminum clamps.
- Provision for padlocking.
- Oil resistant gaskets are permanently secured.
- A removable 12 gauge inner panel is included.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are natural unfinished aluminum.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door stop kits...*see page* ***447***
- Heaters...*see page* ***418-420***
- Lock kit...*see page* ***428***
- Terminal kit assemblies ...*see page* ***437***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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Quality Enclosures. Service Excellence.

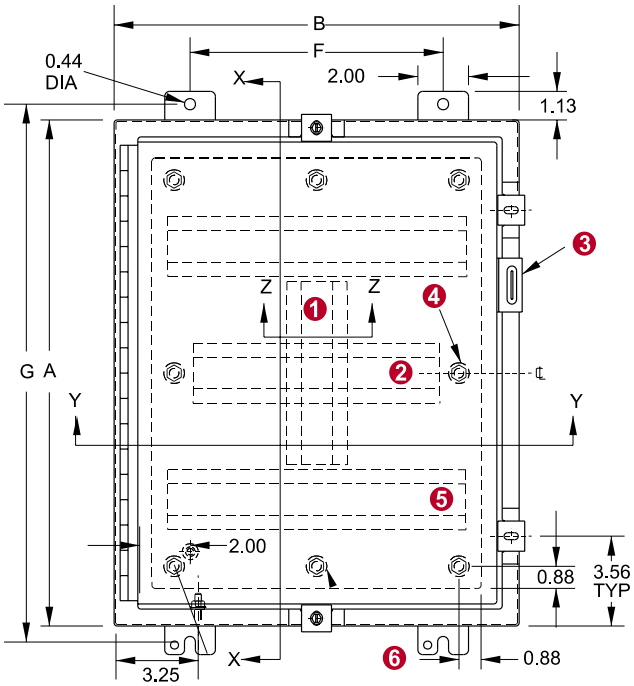
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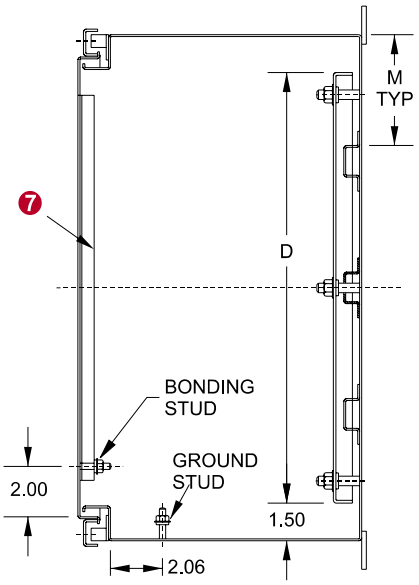
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1418 Series Single Door Aluminum Enclosures - NEMA 4

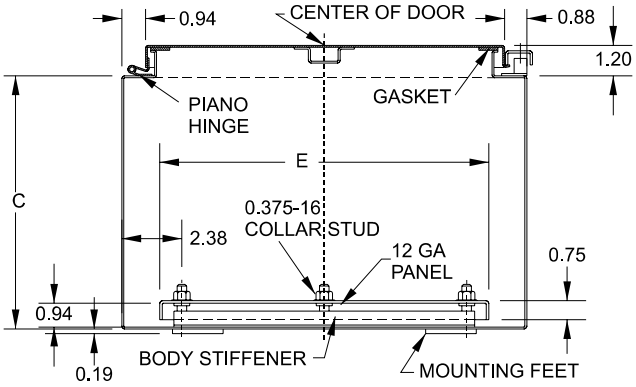
Continuous Hinge, Clamped Cover



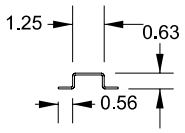
Front View



Side View



Section Y-Y



Section Z-Z

❶ Vertical stiffener required on KK and M only.
❷ Omit center body stiffener if A is less than 41".
❸ Padlocking hasp and staple.
❹ Omit 2 middle studs if A is less than 31".
❺ Omit body stiffeners if A or B is less than 29 .
❻ Omit 2 middle studs if B is less than 31".
❼ Omit door stiffener if A or B is less than 31".

Part No.	A	B	C	Panel Size D	Panel Size E	Mtg. Centers F	Mtg. Centers G	Ship Wt. lbs.
1418N4ALB6[1,2]	16	12	6	13	9	9.5	17.25	14
1418N4ALC6[1,2]	20	16	6	17	13	10.0	21.25	16
1418N4ALE6[1]	24	20	6	21	17	14.0	25.25	21
1418N4ALJ8	24	24	8	21	21	18.0	25.25	26
1418N4ALK8	30	24	8	27	21	18.0	31.25	39
1418N4ALM8	36	30	8	33	27	24.0	37.25	42
1418N4ALS8	48	36	8	45	33	28.0	49.25	56
1418N4ALC10[1,2]	20	16	10	17	13	10.0	21.25	19
1418N4ALE10[1]	24	20	10	21	17	14.0	25.25	24
1418N4ALK12	30	24	12	27	21	18.0	31.25	36
1418N4ALM12	36	30	12	33	27	24.0	37.25	47
1418N4ALT12	60	36	12	57	33	30.0	61.25	83

[1] Meets UL standards [2] Flat panel

When A=	M=
30	7.00
36	9.00
42	9.88
48	11.38
60	14.38

Technical references and DXF downloads available at www.hammfg.com

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Data Subject to change without notice

Eclipse Junior Series Stainless Steel Enclosures - NEMA 4X

Single Door Enclosures



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion may be a problem.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, 4X, 12, and 13
- CSA Type 3R, 4, 4X, 12, and 13
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Body and cover are formed from 304 stainless steel
- Smooth, continuously welded seams without knockouts, cutouts, or holes.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- 14 gauge welded brackets provide for enclosure mounting.
- Continuously hinged cover has 304 stainless steel hinges and provides 180° opening
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Quarter turn latches formed from 316 stainless steel
- Oil resistant gaskets are permanently secured.
- Models larger than 4"x4" include a removable 14 gauge galvanized inner panel.
- Tapped studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided on the enclosure.
- Includes grounding kit and a hardware kit with panel mounting screws.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is unpainted galvanized steel.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***
- Padlock Adaptor (EJPA) ...*see page* ***432***

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All dimensions in inches unless specified otherwise

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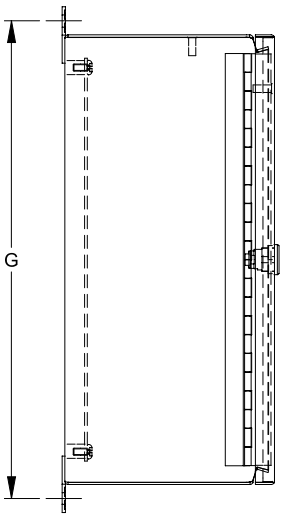
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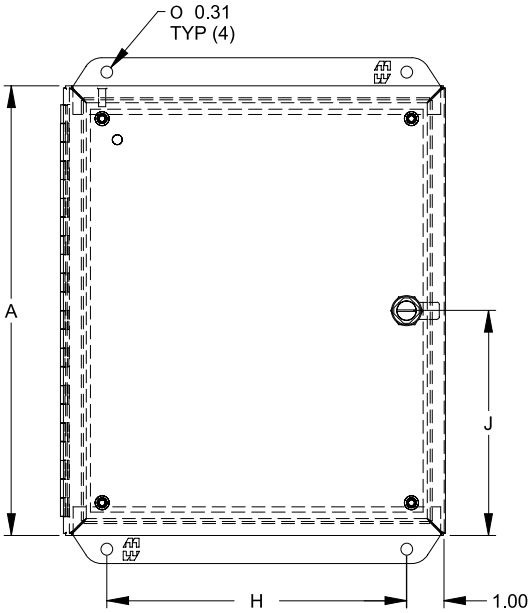
Data Subject to change without notice

Eclipse Junior Series Stainless Steel Enclosures - NEMA 4X

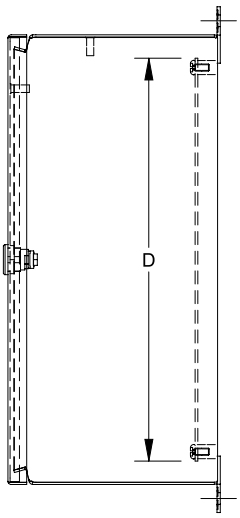
Single Door Enclosures



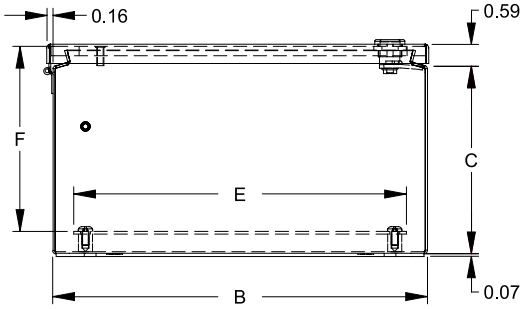
Hinge Side View



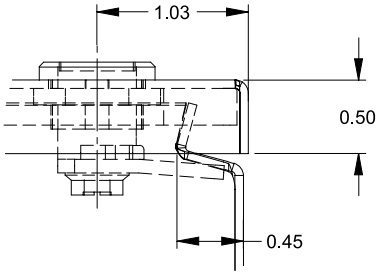
Front View



Latch Side View



Bottom View



Quarter Turn Latch

Part No.	Overall Dimensions A	B	C	Panel Size D	E	F	G	H	J	Ship Wt. lbs.
EJ644SS	6.00	4.00	4.00	4.88	2.88	3.92	6.75	2.00	3.00	3
EJ664SS	6.00	6.00	4.00	4.88	4.88	3.92	6.75	4.00	3.00	4
EJ863SS	8.00	6.00	3.5	6.75	4.88	3.42	8.75	4.00	4.00	5
EJ1084SS	10.00	8.00	4.00	8.75	6.88	3.92	10.75	6.00	5.00	8
EJ12105SS	12.00	10.00	5.00	10.75	8.88	4.92	12.75	8.00	6.00	12
EJ12126SS	12.00	12.00	6.00	10.75	10.88	5.92	12.75	10.00	6.00	15
EJ14126SS	14.00	12.00	6.00	12.75	10.88	5.92	14.75	10.00	7.00	17
EJ14128SS	14.00	12.00	8.00	12.75	10.88	7.92	14.75	10.00	7.00	18
EJ16146SS	16.00	14.00	6.00	14.75	12.88	5.92	16.75	12.00	8.00	21
EJ161410SS	16.00	14.00	10.00	14.75	12.88	9.92	16.75	12.00	8.00	23

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1414 N4 PHSS Series 304 Stainless Steel Enclosures - NEMA 4X

Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion may be a problem.

Standards

- UL 508 Type 3R, 4, 4X, 12 and 13
- CSA Type 3R, 4, 4X, 12 and 13
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Formed from 14 gauge Type 304 stainless steel without knockouts, cutouts or holes.
- Smooth, continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Continuous stainless steel hinged cover is secured with stainless steel clamps and screws.
- Oil resistant gaskets are permanently secured.
- All models include a removable 14 gauge inner panel.
- Tapped studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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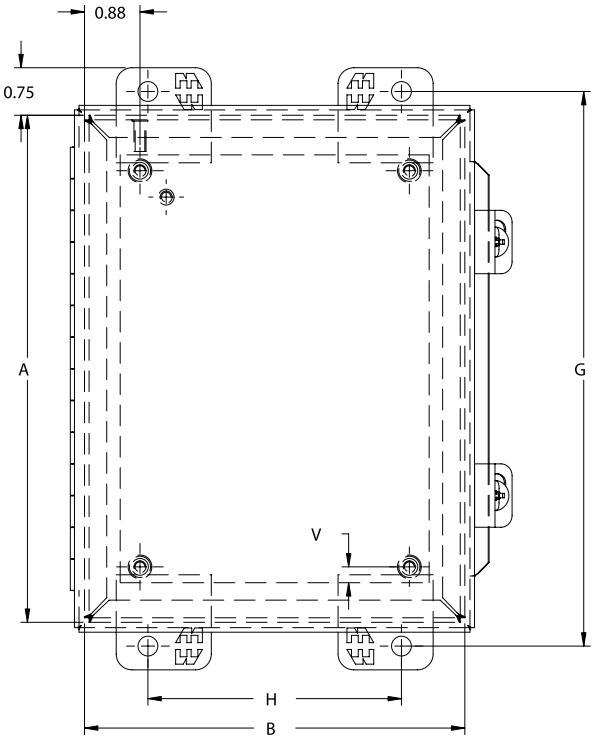
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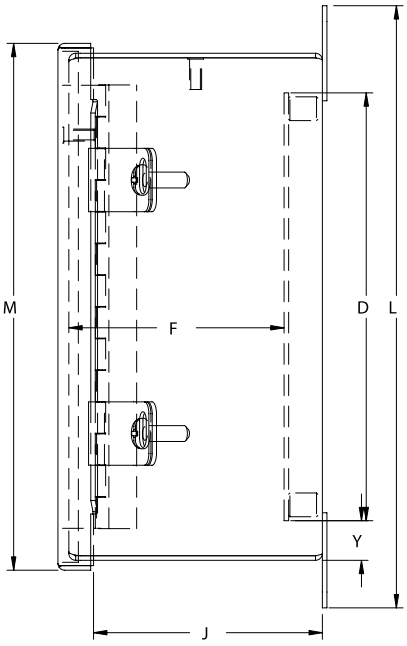
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1414 N4 PHSS Series 304 Stainless Steel Enclosures - NEMA 4X

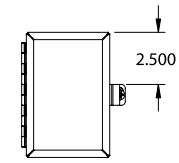
Continuous Hinge, Clamped Cover



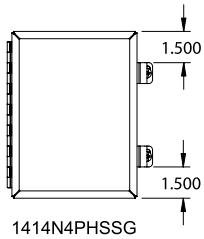
Front View



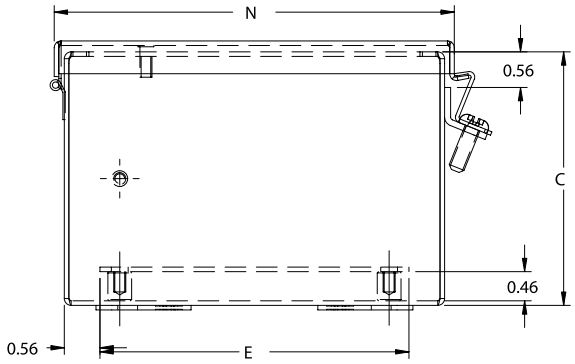
Side View



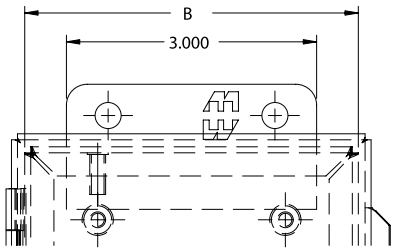
1414N4PHSSC4
1414N4PHSSE



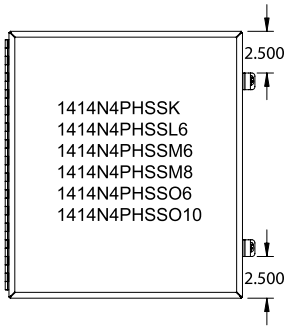
1414N4PHSSG
1414N4PHSSG4
1414N4PHSSI



Bottom View



Mounting Detail When B= 4



1414N4PHSSK
1414N4PHSSL6
1414N4PHSSM6
1414N4PHSSM8
1414N4PHSSO6
1414N4PHSSO10

Part Number With Inner Panel	Part Number Without Inner Panel	Dimensions A	B	C	Panel Size D	E	F	Mounting Centers G	H	J	Cover Dimensions L	M	N	V	Y	Ship Weight w/ Panel	w/o Panel
1414N4PHSSC4	**1414N4PHSSC4LP**	6.0	4.0	4.0	4.88	2.88	3.5	6.75	2.0	3.6	7.5	6.31	4.31	0.31	0.56	5	4
1414N4PHSSE	**1414N4PHSSELP**	6.0	6.0	4.0	4.88	4.88	3.5	6.75	4.0	3.6	7.5	6.31	6.31	0.31	0.56	6	5
1414N4PHSSG	**1414N4PHSSGLP**	8.0	6.0	3.5	6.75	4.88	3.0	8.75	4.0	3.1	9.5	8.31	6.31	0.25	0.63	6	5
1414N4PHSSG4	**1414N4PHSSG4LP**	8.0	6.0	4.0	6.75	4.88	3.5	8.75	4.0	3.6	9.5	8.31	6.31	0.25	0.63	8	7
1414N4PHSSI	**1414N4PHSSILP**	10.0	8.0	4.0	8.75	6.88	3.5	10.75	6.0	3.6	11.5	10.31	8.31	0.25	0.63	10	9
1414N4PHSSK	**1414N4PHSSKLP**	12.0	10.0	5.0	10.75	8.88	4.5	12.75	8.0	4.6	13.5	12.31	10.31	0.25	0.63	15	13
1414N4PHSSL6	**1414N4PHSSL6LP**	12.0	12.0	6.0	10.75	10.88	5.5	12.75	10.0	5.6	13.5	12.31	12.31	0.25	0.63	20	18
1414N4PHSSM6	**1414N4PHSSM6LP**	14.0	12.0	6.0	12.75	10.88	5.5	14.75	10.0	5.6	15.5	14.31	12.31	0.25	0.63	21	19
1414N4PHSSO6	**1414N4PHSSO6LP**	16.0	14.0	6.0	14.75	12.88	5.5	16.75	12.0	5.6	17.5	16.31	14.31	0.25	0.63	26	23
1414N4PHSSM8	**1414N4PHSSM8LP**	14.0	12.0	8.0	12.75	10.88	7.5	14.75	10.0	7.6	15.5	14.31	12.31	0.25	0.63	22	20
1414N4PHSSO10	**1414N4PHSSO10LP**	16.0	14.0	10.0	14.75	12.88	9.5	16.75	12.0	9.6	17.5	16.31	14.31	0.25	0.63	28	25

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1414 N4 PHSS Series 316 Stainless Steel Enclosures - NEMA 4X

Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion may be a problem.

Standards

- UL 508 Type 3R, 4, 4X, 12 and 13.
- CSA Type 3R, 4, 4X, 12 and 13.
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13.
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Formed from 14 gauge Type 316 stainless steel without knockouts, cutouts, or holes.
- Smooth, continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Continuous stainless steel hinged cover is secured with stainless steel clamps.
- Oil resistant gaskets are permanently secured.
- All models include a removable 14 gauge inner panel.
- Tapped studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is finished white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates ...*see page* ***450***
- Terminal kit assemblies ...*see page* ***436***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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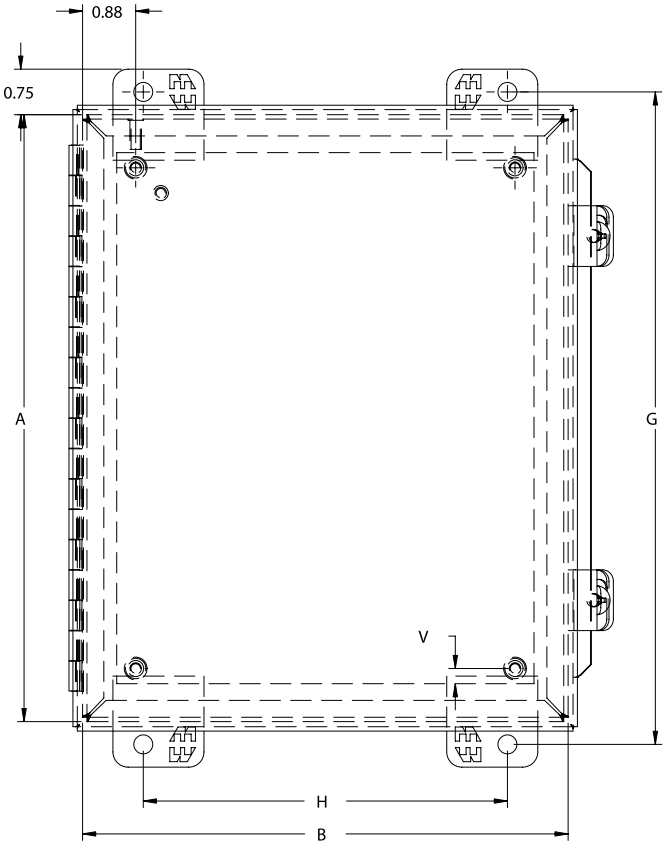
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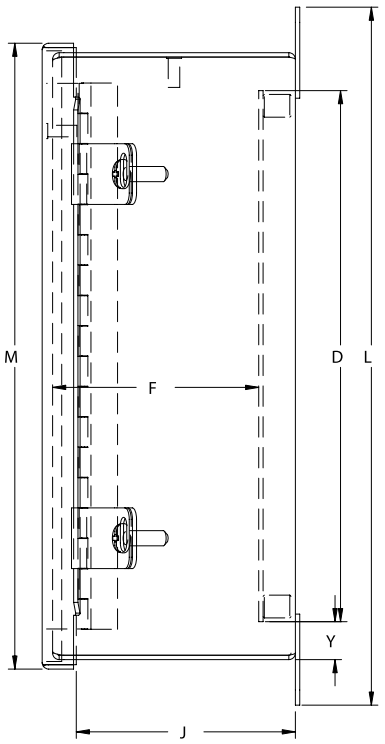
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1414 N4 PHSS Series 316 Stainless Steel Enclosures - NEMA 4X

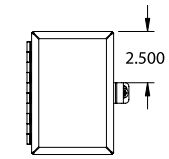
Continuous Hinge, Clamped Cover



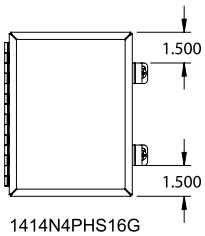
Front View



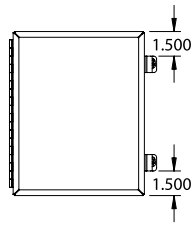
Side View



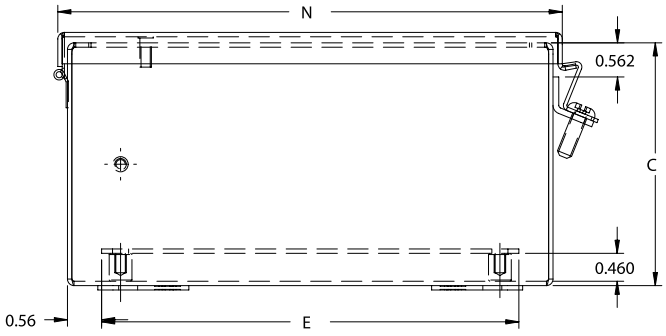
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1414N4PHS16E



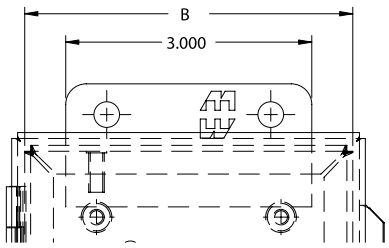
1414N4PHS16G
1414N4PHS16I



1414N4PHS16K
1414N4PHS16L6
1414N4PHS16M6
1414N4PHS16O6



Bottom View



Mounting Detail When B= 4

Part Number	Dimensions A	B	C	Panel Size D	E	F	Mounting Centers G	H	J	Cover Dimensions L	M	N	V	Y	Ship Wt. Lbs
1414N4PHS16C4	6.00	4.00	4.00	4.88	2.88	3.50	6.75	2.00	3.60	7.50	6.31	4.31	0.31	0.56	5
1414N4PHS16E	6.00	6.00	4.00	4.88	4.88	3.50	6.75	4.00	3.60	7.50	6.31	6.31	0.31	0.56	6
1414N4PHS16G	8.00	6.00	3.50	6.75	4.88	3.00	8.75	4.00	3.60	9.50	8.31	6.31	0.25	0.63	6
1414N4PHS16I	10.00	8.00	4.00	8.75	6.88	3.50	10.75	6.00	3.60	11.50	10.31	8.31	0.25	0.63	10
1414N4PHS16K	12.00	10.00	5.00	10.75	8.88	4.50	12.75	8.00	4.60	13.50	12.31	10.31	0.25	0.63	15
1414N4PHS16L6	12.00	12.00	6.00	10.75	10.88	5.50	12.75	10.00	5.60	13.50	12.31	12.31	0.25	0.63	20
1414N4PHS16M6	14.00	12.00	6.00	12.75	10.88	5.50	14.75	10.00	5.60	15.50	14.31	12.31	0.25	0.63	21
1414N4PHS16O6	16.00	14.00	6.00	14.75	12.88	5.50	16.75	12.00	5.60	17.50	16.31	14.31	0.25	0.63	26

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1414 N4 304 SS Stainless Steel Enclosures - NEMA 4X

Lift-Off, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion may be a problem.

Standards

- UL 508 Type 3R, 4, 4X, 12 and 13.
- CSA Type 3R, 4, 4X, 12 and 13.
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13.
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Formed from 14 gauge Type 304 stainless steel without knockouts, cutouts, or holes.
- Smooth, continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Lift-Off cover is secured with stainless steel clamps and screws.
- Oil resistant gaskets are permanently secured.
- All models larger than 4" x 4" include a removable 14 gauge inner panel.
- Tapped studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...see page 433
- Breather kits...see page 423
- Door clamping hardware ...see page 427
- Filter fans...see page 408-414
- Heaters...see page 418-420
- Louvered ventilating plates ...see page 450
- Terminal kit assemblies ...see page 436
- Thermostats...see page 421-422
- Window kits...see page 444

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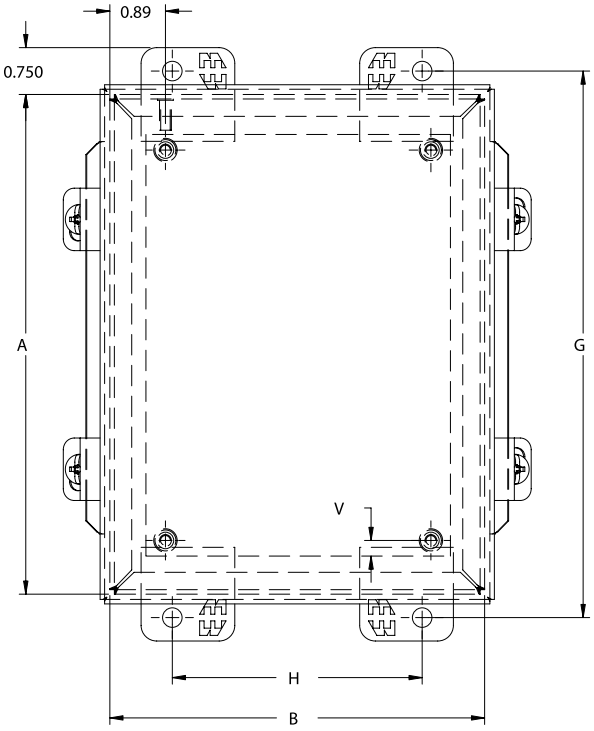
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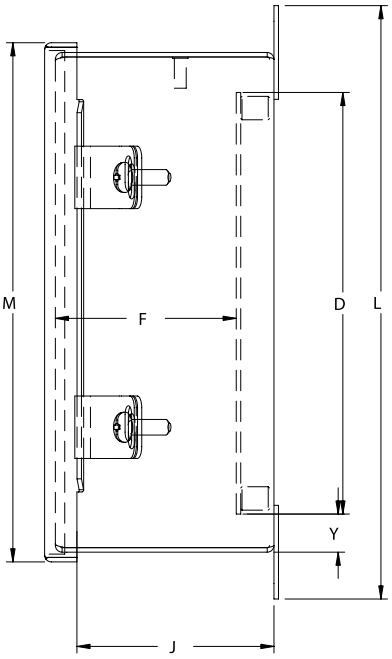
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1414 N4 304 SS Stainless Steel Enclosures - NEMA 4X

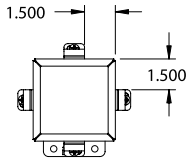
Lift-Off, Clamped Cover



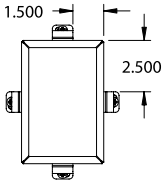
Front View



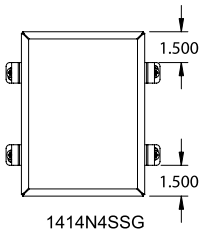
Side View



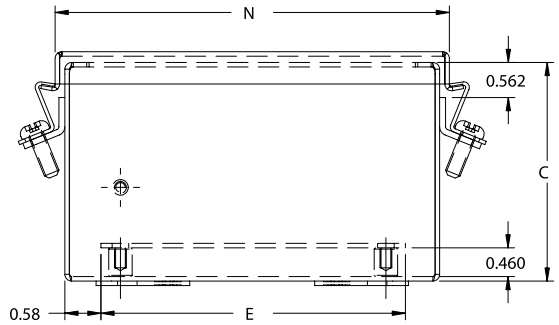
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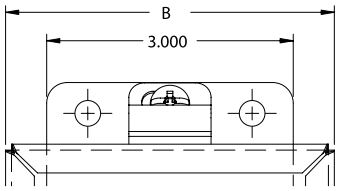
1414N4SSC4
1414N4SSE



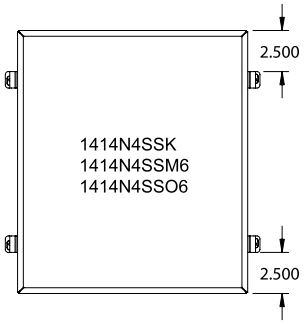
1414N4SSG
1414N4SSI



Bottom View



Mounting Detail When B= 4



Part Number	Dimensions A	B	C	Panel Size D	E	F	Mounting Centers G	H	J	L	Cover Dim. M	N	V	Y	Shit Wt. Lbs w/o Panel
1414N4SSA	4.00	4.00	3.00	-	-	-	4.75	2.00	2.60	5.50	4.31	4.31	-	-	2
1414N4SSC4	6.00	4.00	4.00	4.88	2.88	3.50	6.75	2.00	3.60	7.50	6.31	4.31	0.31	0.56	3
1414N4SSE	6.00	6.00	4.00	4.88	4.88	3.50	6.75	4.00	3.60	7.50	6.31	6.31	0.31	0.56	6
1414N4SSG	8.00	6.00	3.50	6.75	4.88	3.00	8.75	4.00	3.60	9.50	8.31	6.31	0.25	0.63	6
1414N4PHSSI	10.00	8.00	4.00	8.75	6.88	3.50	10.75	6.00	3.60	11.50	10.31	8.31	0.25	0.63	10
1414N4SSK	12.00	10.00	5.00	10.75	8.88	4.50	12.75	8.00	4.60	13.50	12.31	10.31	0.25	0.63	15
1414N4SSM6	14.00	12.00	6.00	12.75	10.88	5.50	14.75	10.00	5.60	15.50	14.31	12.31	0.25	0.63	20
1414N4SSO6	16.00	14.00	6.00	14.75	12.88	5.50	16.75	12.00	5.60	17.50	16.31	14.31	0.25	0.63	26

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All dimensions in inches unless specified otherwise

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Data Subject to change without notice

Eclipse Series, 304 Stainless Steel - NEMA 4X

Single Door Enclosures



Single Door with quarter turns

Panel Sold Separately

Application

- Designed to enclose electrical and/or electronic equipment and protect against harsh, industrial environments for wallmount applications.
- Impressive styling features like hidden hinges and attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, 4X and 12
- CSA Type 3R, 4, 4X and 12
- **Complies with**
  - NEMA 3R, 4, 4X, 12 and 13
  - IEC 60529, IP 66

Construction

- Formed 304 stainless steel.
- Continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured and can easily be replaced in the field if necessary.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Hinges are 304 stainless, 3 point latching handle (where applicable) is zinc diecast with black epoxy finish.
- Stainless steel hinge pins and quarter turns.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.

Accessories

- Air conditioners...see page 387-406
- Blowers...see page 407
- Breather kits...see page 423
- DIN rails...see page 80
- DIN rail mounting kit...see page 79
- Door stop kit...see page 447
- Filter fans...see page 408-414
- Heaters...see page 418-420
- Handles...see page 81
- Inner panel...see page 78
- Quarter turn inserts and keys ...see page 80
- Literature pocket...see page 451
- Mounting foot kit...see page 81
- Swing frame...see page 79
- Swing panel...see page 78
- Replacement hinge pins...see page 79
- Replacement quarter turn assemblies...see page 80
- Thermostats...see page 421-422
- UL/CSA approved hardware kit ...see page 430
- Padlock Adaptor (EPA)...see page 81

Part No.	Overall Dimensions A	B	C	Door/Body Gauge	Latches Qty	Type	Opt. Panel Part No.	Panel Size D	E	No. of Hinges	F	Ship Wt. Lbs.
EN4SD12126SS	12	12	6	16	1	Qtr Turn	**EP1212**	10.2	10.2	2	6	12
EN4SD16126SS	16	12	6	16	1	Qtr Turn	**EP1612**	14.2	10.2	2	10	16
EN4SD16166SS	16	16	6	16	1	Qtr Turn	**EP1616**	14.2	14.2	2	10	19
EN4SD16206SS	16	20	6	16	1	Qtr Turn	**EP1620**	14.2	18.2	2	10	22
EN4SD20166SS	20	16	6	16	1	Qtr Turn	**EP2016**	18.2	14.2	2	14	22
EN4SD20206SS	20	20	6	16	1	Qtr Turn	**EP2020**	18.2	18.2	2	14	26
EN4SD24206SS	24	20	6	16	1	Qtr Turn	**EP2420**	22.2	18.2	2	18	30
EN4SD16208SS	16	20	8	16	1	Qtr Turn	**EP1620**	14.2	18.2	2	10	25
EN4SD20168SS	20	16	8	16	1	Qtr Turn	**EP2016**	18.2	14.2	2	14	25

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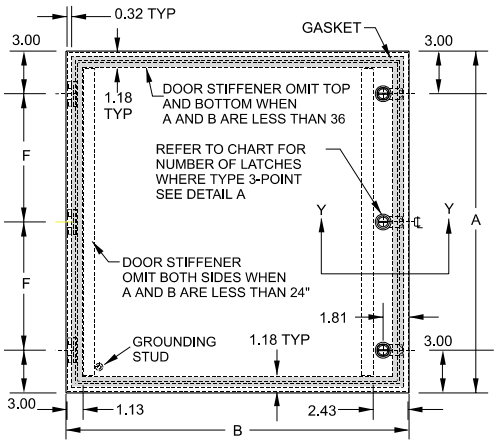
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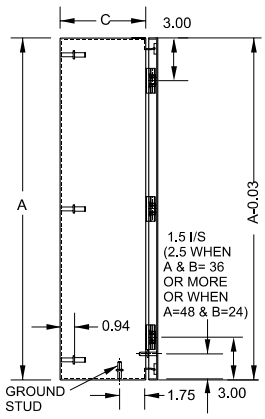
Data Subject to change without notice

Eclipse Series, 304 Stainless Steel - NEMA 4X

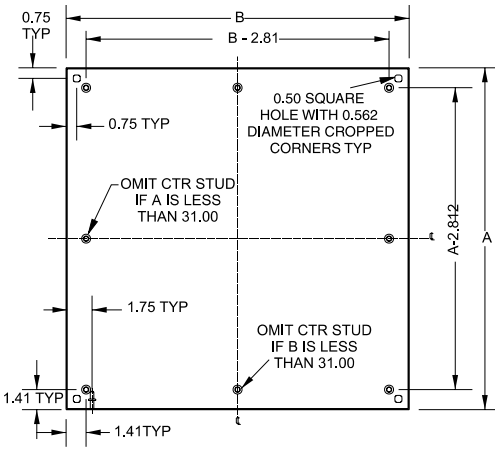
Single Door Enclosures



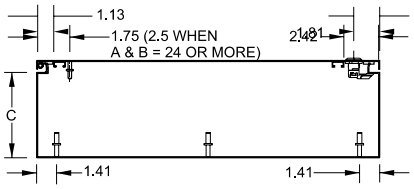
Front View



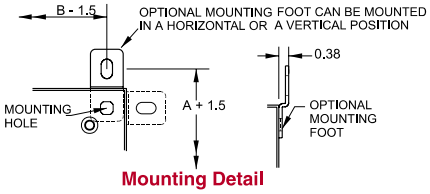
Side View
Hinge Side



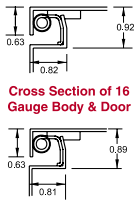
Front View
(Door and Body Flange removed)



Bottom View

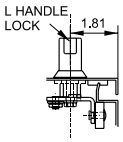


Mounting Detail
Door & Body Flange Removed

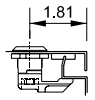


Cross Section of 16 Gauge Body & Door

Cross Section of 14 Gauge Body & Door



Lock Section X-X



Quarter Turn Lock Section Y-Y

Part No.	Overall Dimensions A	B	C	Door/Body Gauge	Latches Qty	Type	Opt. Panel Part No.	Panel Size D	E	No. of Hinges	F	Ship Wt. Lbs.
EN4SD20208SS	20	20	8	16	1	Qtr Turn	**EP2020**	18.2	18.2	2	14	28
EN4SD20248SS	20	24	8	16	1	Qtr Turn	**EP2024**	18.2	22.2	2	14	32
EN4SD24168SS	24	16	8	16	1	Qtr Turn	**EP2416**	22.2	14.2	2	18	26
EN4SD24208SS	24	20	8	16	1	Qtr Turn	**EP2420**	22.2	18.2	2	18	32
EN4SD24248SS	24	24	8	14	2	Qtr Turn	**EP2424**	22.2	22.2	2	18	40
EN4SD24308SS	24	30	8	14	2	Qtr Turn	**EP2430**	22.2	28.2	2	18	48
EN4SD30208SS	30	20	8	14	2	Qtr Turn	**EP3020**	28.2	18.2	3	12	42
EN4SD30248SS	30	24	8	14	2	Qtr Turn	**EP3024**	28.2	22.2	3	12	46
EN4SD30308SS	30	30	8	14	2	Qtr Turn	**EP3030**	28.2	28.2	3	12	67
EN4SD36248SS	36	24	8	14	2	Qtr Turn	**EP3624**	34.2	22.2	3	15	55
EN4SD36308SS	36	30	8	14	2	Qtr Turn	**EP3630**	34.2	28.2	3	15	77
EN4SD42368SS	42	36	8	14	1	3-point	**EP4236**	40.2	34.2	4	12	106
EN4SD48368SS	48	36	8	14	1	3-point	**EP4836**	46.2	34.2	4	14	124
EN4SD201610SS	20	16	10	16	1	Qtr Turn	**EP2016**	18.2	14.2	2	14	28
EN4SD242010SS	24	20	10	16	1	Qtr Turn	**EP2420**	22.2	18.2	2	18	38
EN4SD362410SS	36	24	10	14	2	Qtr Turn	**EP3624**	34.2	22.2	3	15	62
EN4SD363010SS	36	30	10	14	2	Qtr Turn	**EP3630**	34.2	28.2	3	15	83
EN4SD423010SS	42	30	10	14	1	3-point	**EP4230**	40.2	28.2	4	12	110
EN4SD242412SS	24	24	12	14	2	Qtr Turn	**EP2424**	22.2	22.2	2	18	47
EN4SD302412SS	30	24	12	14	2	Qtr Turn	**EP3024**	28.2	22.2	3	12	57
EN4SD363012SS	36	30	12	14	2	Qtr Turn	**EP3630**	34.2	28.2	3	15	95
EN4SD363612SS	36	36	12	14	2	Qtr Turn	**EP3636**	34.2	34.2	3	15	104
EN4SD423612SS	42	36	12	14	1	3-point	**EP4236**	40.2	34.2	4	12	121
EN4SD483612SS	48	36	12	14	1	3-point	**EP4836**	46.2	34.2	4	14	148
EN4SD603612SS	60	36	12	14	1	3-point	**EP6036**	58.2	34.2	4	18	162
EN4SD302416SS	30	24	16	14	2	Qtr Turn	**EP3024**	28.2	22.2	3	12	60
EN4SD363016SS	36	30	16	14	2	Qtr Turn	**EP3630**	34.2	28.2	3	15	89
EN4SD483616SS	48	36	16	14	1	3-point	**EP4836**	46.2	34.2	4	14	135

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All dimensions in inches unless specified otherwise

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Data Subject to change without notice

Eclipse Series, 316 Stainless Steel - NEMA 4X

Single Door Enclosures



Panel Sold Separately

Application

- Designed to enclose electrical and/or electronic equipment and protect against harsh, industrial environments for wallmount applications.
- Impressive styling features like hidden hinges and attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, 4X and 12
- CSA Type 3R, 4, 4X and 12
- **Complies with**
  - NEMA 3R, 4, 4X, 12 and 13
  - IEC 60529, IP 66

Construction

- Formed 316 stainless steel.
- Continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently cured and can easily be replaced in the field if necessary.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Hinges are 316 stainless, 3 point latching handle (where applicable) is zinc diecast with black epoxy finish.
- Stainless steel hinge pins and quarter turns.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.

Accessories

- Air conditioners...see page 387-406
- Blowers...see page 407
- Breather kits...see page 423
- DIN rails...see page 80
- DIN rail mounting kit...see page 79
- Door stop kit...see page 447
- Filter fans...see page 408-414
- Heaters...see page 418-420
- Handles...see page 81
- Inner panel...see page 78
- Quarter turn inserts and keys ...see page 80
- Literature pocket...see page 451
- Mounting foot kit...see page 81
- Swing frame...see page 79
- Swing panel...see page 78
- Replacement hinge pins...see page 79
- Replacement quarter turn assemblies...see page 80
- Thermostats...see page 421-422
- UL/CSA approved hardware kit ...see page 430

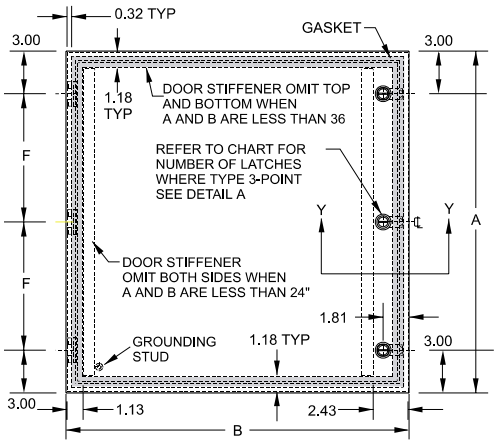
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All dimensions in inches unless specified otherwise

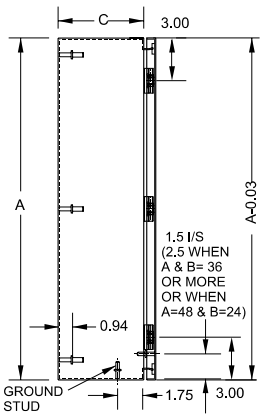
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Eclipse Series, 316 Stainless Steel - NEMA 4X

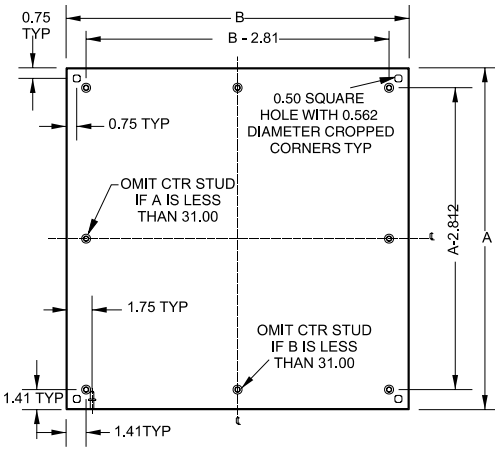
Single Door Enclosures



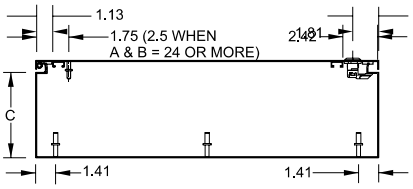
Front View



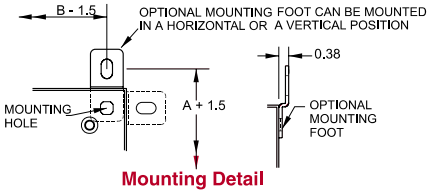
Side View
Hinge Side



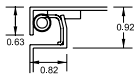
Front View
(Door and Body Flange removed)



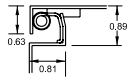
Bottom View



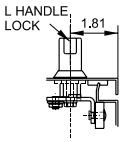
Mounting Detail
Door & Body Flange Removed



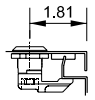
Cross Section of 16 Gauge Body & Door



Cross Section of 14 Gauge Body & Door



Lock Section X-X



Quarter Turn Lock Section Y-Y

Part No.	Overall Dimensions A	B	C	Door/Body Gauge	Latches Qty	Type	Opt. Panel Part No.	Panel Size D	E	No. of Hinges	F	Ship Wt. Lbs.
EN4SD12126S16	12	12	6	16	1	Qtr Turn	**EP1212**	10.2	10.2	2	6	12
EN4SD16126S16	16	12	6	16	1	Qtr Turn	**EP1612**	14.2	10.2	2	10	16
EN4SD16166S16	16	16	6	16	1	Qtr Turn	**EP1616**	14.2	14.2	2	10	19
EN4SD20166S16	20	16	6	16	1	Qtr Turn	**EP2016**	18.2	14.2	2	14	22
EN4SD20206S16	20	20	6	16	1	Qtr Turn	**EP2020**	18.2	18.2	2	14	26
EN4SD16208S16	16	20	8	16	1	Qtr Turn	**EP1620**	14.2	18.2	2	10	25
EN4SD20168S16	20	16	8	16	1	Qtr Turn	**EP2016**	18.2	14.2	2	14	25
EN4SD20208S16	20	20	8	16	1	Qtr Turn	**EP2020**	18.2	18.2	2	14	28
EN4SD24168S16	24	16	8	16	1	Qtr Turn	**EP2416**	22.2	14.2	2	18	26
EN4SD24208S16	24	20	8	16	1	Qtr Turn	**EP2420**	22.2	18.2	2	18	32
EN4SD24248S16	24	24	8	14	2	Qtr Turn	**EP2424**	22.2	22.2	2	18	40
EN4SD30248S16	30	24	8	14	2	Qtr Turn	**EP3024**	28.2	22.2	3	12	46
EN4SD30308S16	30	30	8	14	2	Qtr Turn	**EP3030**	28.2	28.2	3	12	67
EN4SD36248S16	36	24	8	14	2	Qtr Turn	**EP3624**	34.2	22.2	3	15	55
EN4SD36308S16	36	30	8	14	2	Qtr Turn	**EP3630**	34.2	28.2	3	15	77
EN4SD302412S16	30	24	12	14	2	Qtr Turn	**EP3024**	28.2	22.2	3	12	60
EN4SD363012S16	36	30	12	14	2	Qtr Turn	**EP3630**	34.2	28.2	3	15	99
EN4SD363612S16	36	36	12	14	2	Qtr Turn	**EP3636**	34.2	34.2	3	15	104
EN4SD483616S16	48	36	16	14	1	3-point	**EP4836**	46.2	34.2	4	14	135

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All dimensions in inches unless specified otherwise

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Eclipse Series, 304 Stainless Steel - NEMA 4X

Single Window Door Enclosures



Panel Sold Separately

Application

- Designed to enclose electrical and/or electronic equipment in wallmount applications where viewing of component operation is necessary while maintaining protection ratings.
- Impressive styling features like hidden hinges and attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, 4X and 12
- CSA Type 3R, 4, 4X and 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Formed 14 or 16 gauge 304 stainless steel.
- Full view UV resistant polycarbonate window allows maximum viewing area of inner panel.
- Continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Hinges are constructed from 304 stainless steel.
- Stainless steel hinge pins and quarter turns.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.

Accessories

- Air conditioners...*see page* ***387-406***
- Blowers...*see page* ***407***
- Breather kits...*see page* ***423***
- DIN rails...*see page* ***80***
- DIN rail mounting kit...*see page* ***79***
- Door stop kit...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Handles...*see page* ***81***
- Inner panel...*see page* ***78***
- Quarter turn inserts and keys ...*see page* ***80***
- Literature pocket...*see page* ***451***
- Mounting foot kit...*see page* ***81***
- Swing frame...*see page* ***79***
- Swing panel...*see page* ***78***
- Replacement hinge pins...*see page* ***79***
- Replacement quarter turn assemblies...*see page* ***80***
- Thermostats...*see page* ***421-422***
- UL/CSA approved hardware kit ...*see page* ***430***
- Padlock Adaptor (EPA)...*see page* ***81***

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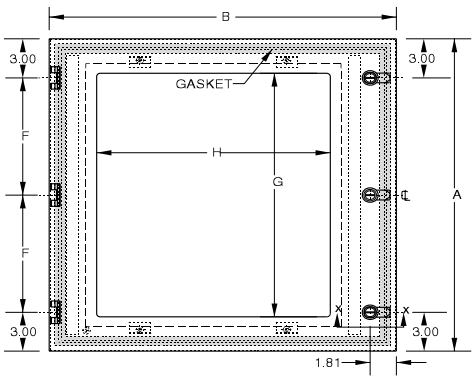
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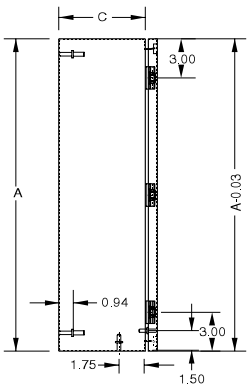
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Eclipse Series, 304 Stainless Steel - NEMA 4X

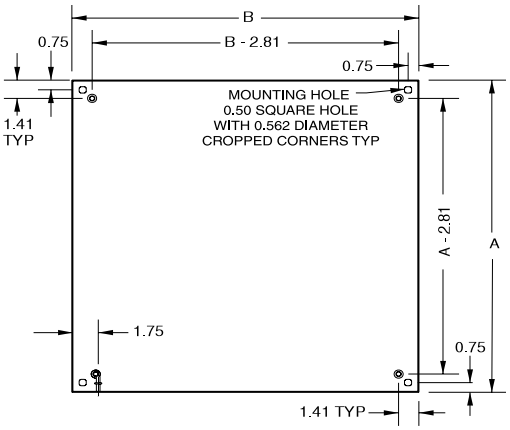
Single Window Door Enclosures



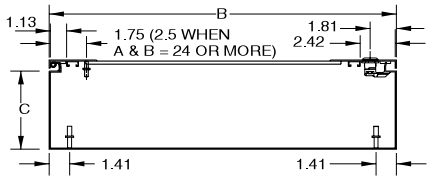
Front View



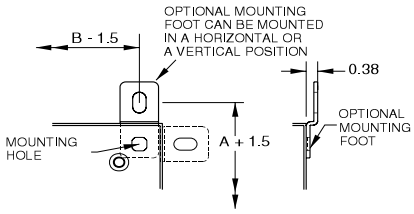
Side View
Hinge Side



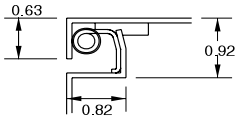
Front Section
Door & Body Flange Removed



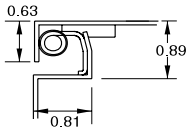
Bottom View



Mounting Detail
Door & Body Flange Removed



Cross Section of 14 gauge Body & Door



Cross Section of 16 gauge Body & Door

Part No.	Overall Dimensions			Door/ Body	Latch[1]	Hinge		Viewing Area		Optional Panel	Inner Panel Dimensions		Ship Wt. Lbs.
	A	B	C	Gauge	Qty	Qty	F	G	H	Part No.	D	E	
EN4SD16126WSS	16	12	6	16	1	2	10	11.33	6.71	**EP1612**	14.2	10.2	16
EN4SD20166WSS	20	16	6	16	1	2	14	15.33	10.71	**EP2016**	18.2	14.2	22
EN4SD20206WSS	20	20	6	16	1	2	14	15.33	14.71	**EP2020**	18.2	18.2	26
EN4SD20168WSS	20	16	8	16	1	2	14	15.33	10.71	**EP2016**	18.2	14.2	25
EN4SD20208WSS	20	20	8	16	1	2	14	15.33	14.71	**EP2020**	18.2	18.2	28
EN4SD24208WSS	24	20	8	16	1	2	18	19.33	14.71	**EP2420**	22.2	18.2	32
EN4SD24248WSS	24	24	8	14	2	2	18	18.33	16.15	**EP2424**	22.2	22.2	40
EN4SD30248WSS	30	24	8	14	2	3	12	24.33	16.15	**EP3024**	28.2	22.2	46

[1] All Window Door latch types are quarter turns.

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Eclipse Sloped Top Series, 304 Stainless Steel - NEMA 4X

Single Top Enclosures



Panel Sold Separately

Application

- Designed to enclose electrical and/or electronic equipment and protect against harsh, industrial environments for wallmount applications.
- Sloped top prevents water from resting on top as well as providing potential for controls mounting
- Impressive styling features like hidden hinges and attractive latching systems make the Eclipse a suitable addition to any high-tech equipment installation.
- A wide range of sizes and practical accessories make this product line a complete package.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- UL 508 Type 3R, 4, 4X and 12
- CSA Type 3R, 4, 4X and 12
- **Complies with**
  - NEMA 3R, 4, 4X, 12 and 13
  - IEC 60529, IP 66

Construction

- Formed 304 stainless steel.
- Continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured and can easily be replaced in the field if necessary.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Hinges are 304 stainless.
- Stainless steel hinge pins and quarter turns.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.

Accessories

- Air conditioners...see page 387-406
- Blowers...see page 407
- Breather kits...see page 423
- DIN rails...see page 80
- DIN rail mounting kit...see page 79
- Door stop kit...see page 447
- Filter fans...see page 408-414
- Heaters...see page 418-420
- Handles...see page 81
- Inner panel...see page 78
- Quarter turn inserts and keys ...see page 80
- Literature pocket...see page 451
- Mounting foot kit...see page 81
- Swing frame...see page 79
- Swing panel...see page 78
- Replacement hinge pins...see page 79
- Replacement quarter turn assemblies...see page 80
- Thermostats...see page 421-422
- UL/CSA approved hardware kit ...see page 430
- Padlock Adaptor (EPA)...see page 81

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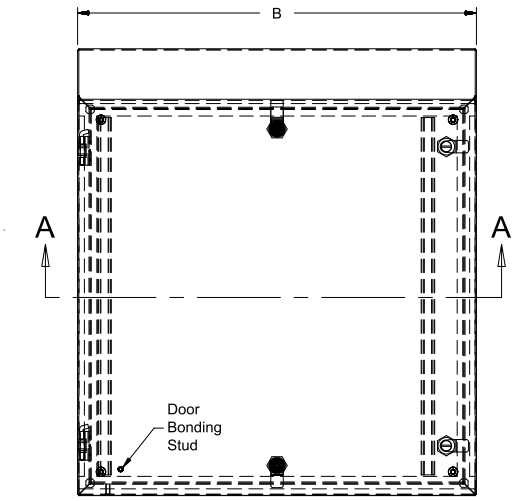
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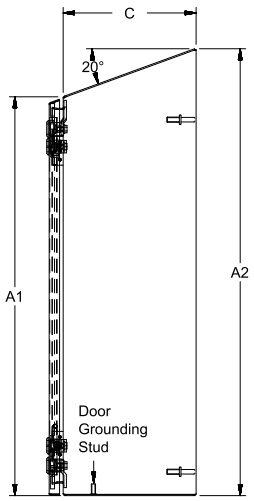
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Eclipse Sloped Top Series, 304 Stainless Steel - NEMA 4X

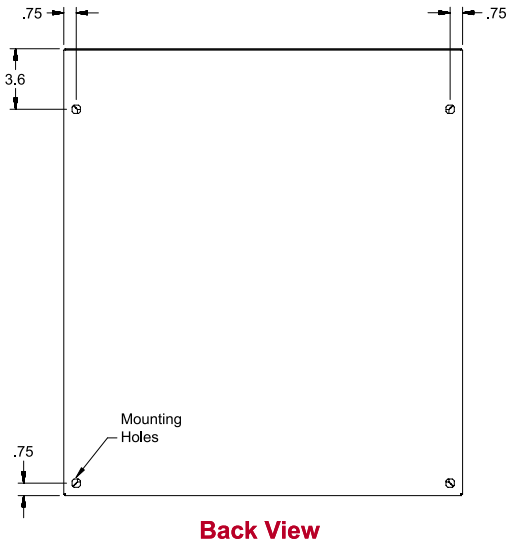
Single Top Enclosures



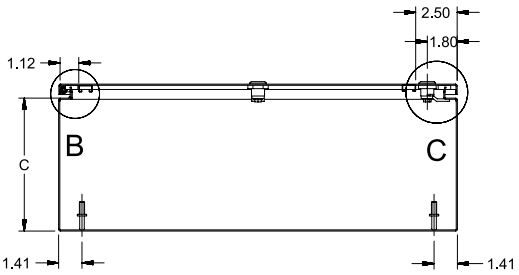
Front View



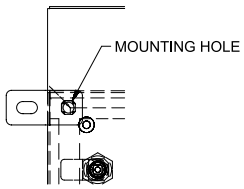
Side View



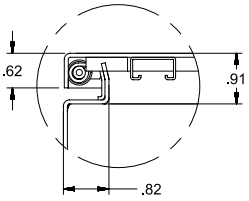
Back View



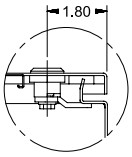
Section A-A



Mounting Details



DETAIL B



DETAIL C
QUARTER TURN LOCK

Part Number	Dimensions [in] Enclosure Size A1	A2	B	C	F	Door/Body Gauge	Optional Panel Cat. Number	Latch Qty	Hinge Qty
ST161208SS	16	18.9	12	8	10	14	EP1612	2	2
ST161608SS	16	18.9	16	8	10	14	EP1616	2	2
ST201608SS	20	22.9	16	8	14	14	EP2016	2	2
ST201612SS	20	24.3	16	12	14	14	EP2016	2	2
ST202008SS	20	22.9	20	8	14	14	EP2020	2	2
ST202012SS	20	24.3	20	12	14	14	EP2020	2	2
ST242008SS	24	26.9	20	8	18	14	EP2420	2	2
ST242408SS	24	26.9	24	8	18	14	EP2424	4	2
ST242412SS	24	28.3	24	12	18	14	EP2424	4	2
ST302408SS	30	32.9	24	8	12	14	EP3024	4	3
ST302412SS	30	34.3	24	12	12	14	EP3024	4	3
ST303008SS	30	32.9	30	8	12	14	EP3030	4	3
ST363008SS	36	38.9	30	8	15	14	EP3630	5	3
ST363012SS	36	40.3	30	12	15	14	EP3630	5	3
ST363016SS	36	41.8	30	16	15	14	EP3630	5	3
ST363612SS	36	40.3	36	12	15	14	EP3636	5	3
ST483616SS	48	53.8	36	16	14	14	EP4836	5	4
ST603616SS*	60	65.8	36	16	18	14	EP6036	5	4

* Back is 10 gauge stainless steel

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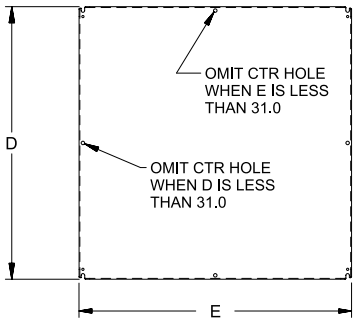
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Eclipse Series - NEMA 4X
Accessories





Eclipse Inner Panel

- Larger than standard NEMA panel used in same sized enclosure.
- Larger sizes have 2 or 4 formed flanges for added strength.
- Slotted corner design for easier mounting.
- Finished in white or unpainted galvanized.

Mild Steel Part No.	Galvanized Part No.	Size D	Size E	Gauge
EP1212	**EPG1212**	10.2	10.2	12
EP1224	**EPG1224**	10.2	22.2	12
EP1612	**EPG1612**	14.2	10.2	12
EP1616	**EPG1616**	14.2	14.2	12
EP1620	**EPG1620**	14.2	18.2	12
EP2012	**EPG2012**	18.2	10.2	12
EP2016	**EPG2016**	18.2	14.2	12
EP2020	**EPG2020**	18.2	18.2	12
EP2024	**EPG2024**	18.2	22.2	12
EP2412	**EPG2412**	22.2	10.2	12
EP2416	**EPG2416**	22.2	14.2	12
EP2420	**EPG2420**	22.2	18.2	12
EP2424	**EPG2424**	22.2	22.2	12
EP2430	**EPG2430**	22.2	28.2	12
EP2442	**EPG2442**	22.2	40.2	12
EP2448	**EPG2448**	22.2	46.2	12
EP3012	**EPG3012**	28.2	10.2	12
EP3016	**EPG3016**	28.2	14.2	12
EP3020	**EPG3020**	28.2	18.2	12
EP3024	**EPG3024**	28.2	22.2	12

Mild Steel Part No.	Galvanized Part No.	Size D	Size E	Gauge
EP3030	**EPG3030**	28.2	28.2	12
EP3036	**EPG3036**	28.2	34.2	12
EP3042	**EPG3042**	28.2	40.2	12
EP3048	**EPG3048**	28.2	46.2	12
EP3060	**EPG3060**	28.2	58.2	12
EP3624	**EPG3624**	34.2	22.2	12
EP3630	**EPG3630**	34.2	28.2	12
EP3636	**EPG3636**	34.2	34.2	12
EP3642	**EPG3642**	34.2	40.2	12
EP3648	**EPG3648**	34.2	46.2	12
EP3660	**EPG3660**	34.2	58.2	12
EP4224	**EPG4224**	40.2	22.2	12
EP4230	**EPG4230**	40.2	28.2	12
EP4236	**EPG4236**	40.2	34.2	12
EP4824	**EPG4824**	46.2	22.2	12
EP4830	**EPG4830**	46.2	28.2	12
EP4836	**EPG4836**	46.2	34.2	12
EP6036	**EPG6036**	58.2	34.2	12
EP7230	**EPG7230**	70.2	28.2	12
EP7236	**EPG7236**	70.2	34.2	12



Eclipse Swing Panel



- Hinged panel allows access to internally mounted equipment.
- 12 gauge steel construction.
- Slotted quarter turn latches provide closure.
- Adding optional locking quarter turn latches (Part Number **EQTRL**...*see page* ***30***) convert this to a dead front panel.
- Complete with 4-6" depth adjustment channels.
- Hardware kit maintains UL, CSA and NEMA ratings when field installed.
- Finished in white.

Part No.	Fits Enclosure Size (A x B)
ESP1212	12 x 12
ESP1612	16 x 12
ESP1616	16 x 16
ESP2016	20 x 16
ESP2416	24 x 16
ESP1620	16 x 20
ESP2020	20 x 20
ESP2420	24 x 20

Part No.	Fits Enclosure Size (A x B)
ESP3020	30 x 20
ESP2024	20 x 24
ESP2424	24 x 24
ESP3024	30 x 24
ESP3624	36 x 24
ESP3030	30 x 30
ESP3630	36 x 30
ESP3636	36 x 36

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Eclipse Replacement Hinge Pins

- These are supplied with enclosure but offered here as replacements should originals be misplaced.
- Packaged in quantities of 5.

Part No.	Material
EPINSS	Stainless steel hinge pin



Eclipse Swing Frame

- Provides 19" rack mounting with full EIA spacing (punched holes).
- Hinges allow easy equipment access.
- Slotted quarter turn latches provide closure.
- Adding optional locking quarter turn latches (**EQTRL**...*see page* ***80***) provides added security.
- Complete with 4-6" depth adjustment channels.
- Order package of 25 clip nuts separately (Part No. **1421N25**...*see page* ***430***).
- Hardware kit maintains UL, CSA and NEMA ratings when field installed.
- Finished in black.

Electronic Industries Alliance

Hardware Included

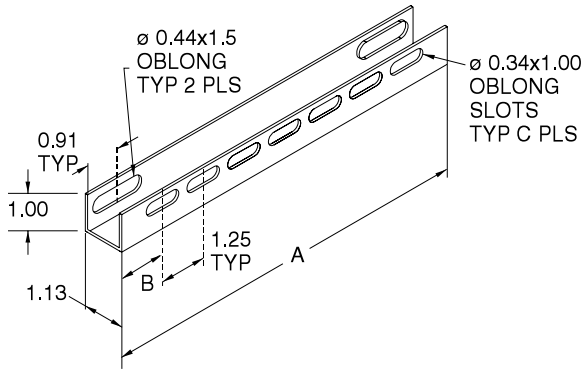
Part No.	Fits Enclosure Size (A x B)	Rack Spacing Width	Rack Spacing Height (Units)
ESF2424	24 x 24	19	11
ESF3024	30 x 24	19	14
ESF3624	36 x 24	19	17



DIN Rail Mounting Kit

- Field installable.
- Mounts directly to panel collar studs (panel not required).
- Accepts optional DIN rails, see below.
- DIN rails available separately.
- Zinc plated, yellow dichromate.

Part No.	A	B	C
2DMK12	10	1.25	7
2DMK16	14	0.75	11
2DMK20	18	0.88	14
2DMK24	22	1.00	17
2DMK30	28	0.88	22



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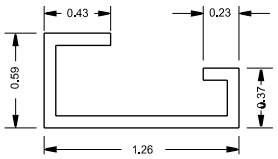
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Eclipse Series - NEMA 4X
Accessories

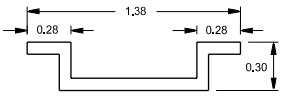


DIN Rails

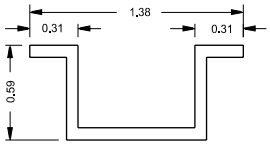
- Field installable.
- Includes a set of 3 plated rails.
- Available in 3 industry standard profiles - DIN 1, DIN 3, and CENELEC.
- DIN rail mounting kit required for installation (see above).
- Rails have a 0.28 x 1.25 oblong slot on each end.
- Zinc plated.



Asymmetric DIN 1 Pro



Symmetric DIN 3 Pro



CENELEC Pro

Asymmetric Din 1 Profile Part No.	Symmetric Din 3 Profile Part No.	Cenelec Profile Part No.	Length
2D1K12	**2D2K12**	**2DCK12**	9.25
2D1K16	**2D2K16**	**2DCK16**	13.25
2D1K20	**2D2K20**	**2DCK20**	17.25
2D1K24	**2D2K24**	**2DCK24**	21.25
2D1K30	**2D2K30**	**2DCK30**	27.25



Quarter Turn Inserts and Keys

- Field installable inserts replace standard quarter turn slot.
- Available in 7mm square and triangle formats, as well as slotted.
- Square and triangle inserts provide extra security since standard screw drivers cannot open.
- Keys sold separately from inserts.
- Maintains NEMA, UL and CSA 12, 4 and 4X ratings.

Part No.	Description
2SQI7	7mm square insert, black
2SQK7	7mm square key, fits 2SQI7
2TRI7	7mm triangle insert, black
2TRK7	7mm triangle key, fits 2TRI7
2SLI	Slotted insert, black



EQTRL



2QPL



2WKL



2SSQTR

Replacement Quarter Turn Assemblies

- Field installable.
- Interchangeable with standard quarter turn latches.
- Maintains NEMA, UL and CSA ratings as noted.

Part No.	Description	Material	NEMA Rating
EQTRL[1]	Locking Qtr Turn	Zinc Die/Chrome	n/a (internal use only)
2QTR	Slotted Qtr Turn	Zinc Die/Black	12, 4
2SSQTR	Slotted Qtr Turn	Stainless steel	12, 4, 4X
2WKL	Wing knob lock	Zinc Die/Black	12, 4
2QPL	Padlockable quarter turn latch	Zinc Die/Black	12, 4

[1] For use with Swing Frame/Panel. ..*see page* 78. All others for use with enclosures.

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Handles

- Field installable.
- Interchangeable with standard quarter turn latches.
- Maintain NEMA, UL and CSA ratings as noted.

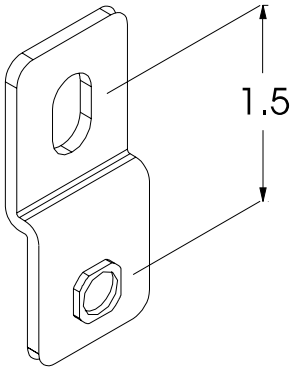
Part No.	Description	Material	NEMA Rating
EHTL	Locking T Handle	Zinc Die/Black	12, 4
EHLL	Locking L Handle	Zinc Die/Black	12, 4
EHLPL	Padlockable L Handle	Zinc Die/Black	12
EHLPLSS	Padlockable L Handle	Stainless Steel	12, 4, 4X
EHLNLSS	Non Locking L Handle	Stainless Steel	12, 4, 4X



Eclipse Mounting Foot Kit

- Maintains UL, CSA and NEMA ratings.
- Field installable.
- Pilot sits squarely into enclosure mounting holes for horizontal or vertical positioning.
- Available in plated black and stainless steel.
- Packaged in quantities of four.

Part No.	Material
EZPMF	Mild Steel
ESSMF	Type 304 Stainless
ES16MF	Type 316 Stainless





Eclipse Padlock Adaptor

- For use with EN4SD Series Enclosures.
- Padlock adaptor fits directly over the slotted quarter turn preventing access.
- 2mm thick 14 guage stainless steel.
- Stainless steel moutning hardware provided
- Once installed, the bolts cannot be removed without the door open.
- Easy installed in the field.
- Padlock not included.
- Maintains UL/CSA Type 4 rating.

Part No.	EPA

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1418 Series 304 Stainless Steel Single Door Enclosures

NEMA 4X- Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a serious problem.

Standards

- UL 508 Type 3R, 4, 4X, and 12
- CSA Type 3R, 4, 4X, and 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP66

Construction

- Formed 14 gauge Type 304 stainless steel bodies and doors.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Door and body stiffeners are provided in the larger enclosures for extra rigidity.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure excludes flowing liquids and contaminants.
- Stainless steel continuous hinge on door may be removed by pulling the stainless steel hinge pin.
- Door is secured with easily operated stainless steel clamps.
- Provision for padlocking.
- Oil resistant gaskets are permanently secured.
- A removable 12 gauge inner panel is included.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Air conditioners...*see page* ***388-403***
- Blowers...*see page* ***407***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Door stop kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Filter fans...*see page* ***408-414***
- Floor stand kits...*see page* ***448***
- Heaters...*see page* ***418-420***
- Lock kit...*see page* ***428***
- Louvered ventilating plates ...*see page* ***450***
- Quick release clamp...*see page* ***427***
- Terminal kit assemblies ...*see page* ***437***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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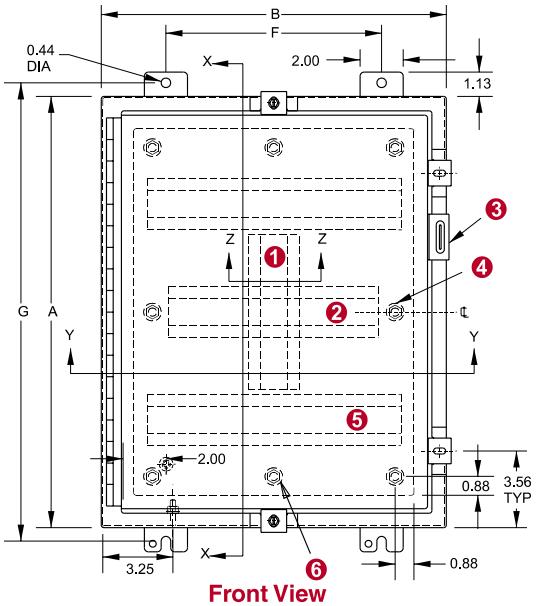
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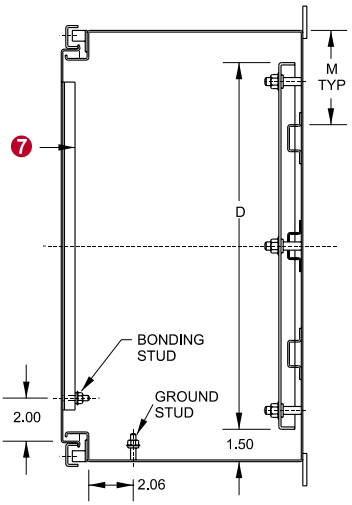
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1418 Series 304 Stainless Steel Single Door Enclosures

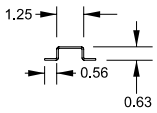
NEMA 4X- Continuous Hinge, Clamped Cover



Front View

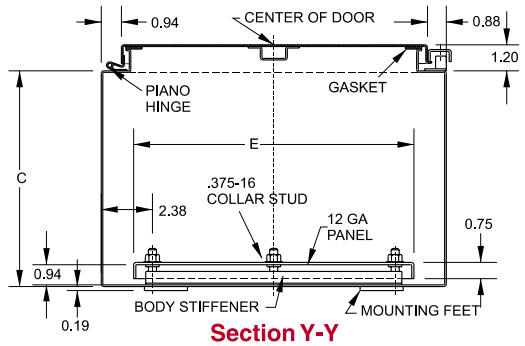


Side View



Section Z-Z

When A=	M=
30	7.00
36	9.00
42	9.88
48	11.38
60	14.38
72	17.38



Section Y-Y

1. Vertical stiffener required on KK, LL & M only.
2. Omit center body stiffener if A is less than 41".
3. Padlocking hasp and staple.
4. Omit 2 middle studs if A is less than 31".
5. Omit body stiffeners if A or B is less than 29".
6. Omit 2 middle studs if B is less than 31".
7. Omit door stiffener if A or B is less than 31" except if AxB is 42"x30".

Literature pocket supplied loose.
Number of door clamps varies to enclosure size.

Part No.	A	B	C	Panel Size D	E	Mtg.Centers F	G	Ship Wt. lbs.
1418N4SSB6[2]	16	12	6	13	9	9.5	17.25	28
1418N4SSG6[2]	16	16	6	13	13	10.0	17.25	30
1418N4SSCR6[2]	16	20	6	13	17	14.0	17.25	38
1418N4SSC6[2]	20	16	6	17	13	10.0	21.25	38
1418N4SSD6[2]	20	20	6	17	17	14.0	21.25	40
1418N4SSE6	24	20	6	21	17	14.0	25.25	61
1418N4SSJ6	24	24	6	21	21	18.0	25.25	65
1418N4SSB8	16	12	8	13	9	9.5	17.25	32
1418N4SSC8[2]	20	16	8	17	13	10.0	21.25	38
1418N4SSD8[2]	20	20	8	17	17	14.0	21.25	52
1418N4SSER8	20	24	8	17	21	18.0	21.25	61
1418N4SSH8	24	16	8	21	13	10.0	25.25	61
1418N4SSE8	24	20	8	21	17	14.0	25.25	61
1418N4SSJ8	24	24	8	21	21	18.0	25.25	75
1418N4SSKR8	24	30	8	21	27	24.0	25.25	89
1418N4SSF8	30	20	8	27	17	14.0	31.25	72
1418N4SSK8	30	24	8	27	21	18.0	31.25	89
1418N4SSKK8	30	30	8	27	27	24.0	31.25	100
1418N4SSL8	36	24	8	33	21	18.0	37.25	100
1418N4SSM8	36	30	8	33	27	24	37.25	121

Part No.	A	B	C	Panel Size D	E	Mtg.Centers F	G	Ship Wt. lbs.
1418N4SSP8[1]	42	36	8	39	33	30	43.25	177
1418N4SSS8[1]	48	36	8	45	33	30	49.25	207
1418N4SSC10	20	16	10	17	13	10	21.25	47
1418N4SSE10	24	20	10	21	17	14	25.25	66
1418N4SSK10	30	24	10	27	21	18	31.25	120
1418N4SSL10	36	24	10	33	21	18	37.25	108
1418N4SSM10	36	30	10	33	27	24	37.25	125
1418N4SSO10[1]	42	30	10	39	27	24	43.25	175
1418N4SSS10[1]	48	36	10	45	33	30	49.25	215
1418N4SSJ12	24	24	12	21	21	18	25.25	71
1418N4SSK12	30	24	12	27	21	18	31.25	95
1418N4SSM12	36	30	12	33	27	24	37.25	136
1418N4SSLL12[1]	36	36	12	33	33	30	37.25	202
1418N4SSS12[1]	48	36	12	45	33	30	49.25	225
1418N4SST12[1]	60	36	12	57	33	30	61.25	270
1418N4SSK16	30	24	16	27	21	18	31.25	100
1418N4SSM16	36	30	16	33	27	24	37.25	149
1418N4SSS16[1]	48	36	16	45	33	30	49.25	290
1418N4SST16[1]	60	36	16	57	33	30	61.25	280

[1] Does not meet JIC requirements [2] Flat panel

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1418 Series 316 Stainless Steel Single Door Enclosures - NEMA 4X

Continuous Hinge, Clamped Cover



Inner Panel Included

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a serious problem.

Standards

- UL 508 Type 3R, 4, 4X, and 12
- CSA Type 3R, 4, 4X, and 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967 unless marked[1]
  - IEC 60529, IP66

Construction

- Formed 14 gauge Type 316 stainless steel bodies and doors.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Door and body stiffeners are provided in the larger enclosures for extra rigidity.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Stainless steel continuous hinge on door may be removed by pulling the stainless steel hinge pin.
- Door is secured with easily operated stainless steel clamps.
- Provision for padlocking.
- Oil resistant gaskets are permanently secured.
- A removable 12 gauge inner panel is included.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided for the inside of the door.
- All exterior hardware on Type 316 enclosures matches the enclosure material.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Air conditioners...*see page* ***388-403***
- Blowers...*see page* ***407***
- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Door stop kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Lock kit...*see page* ***428***
- Louvered ventilating plates ...*see page* ***450***
- Quick release clamp...*see page* ***427***
- Terminal kit assemblies ...*see page* ***437***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

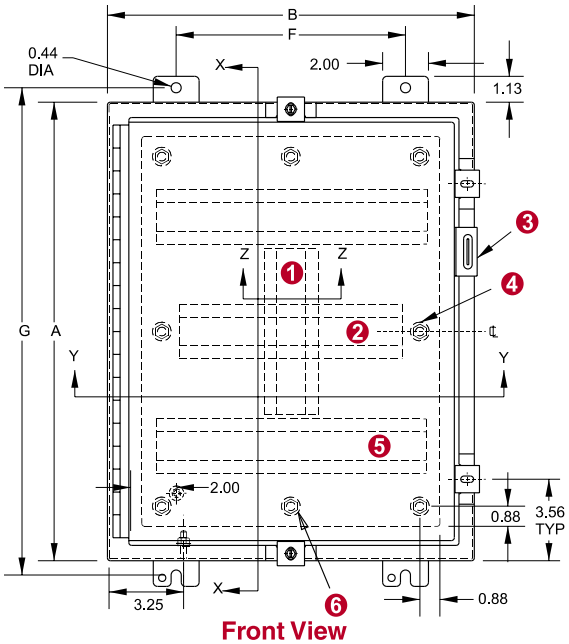
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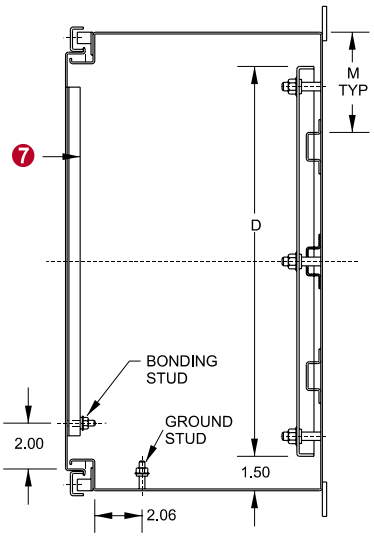
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1418 Series 316 Stainless Steel Single Door Enclosures - NEMA 4X

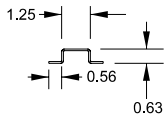
Continuous Hinge, Clamped Cover



Front View

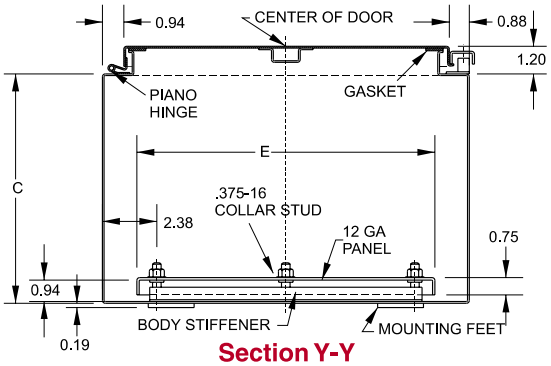


Side View



Section Z-Z

When A=	M=
30	7.00
36	9.00
42	9.88
48	11.38
60	14.38
72	17.38



Section Y-Y

1. Vertical stiffener required on M only.
2. Omit center body stiffener if A is less than 41".
3. Padlocking hasp and staple.
4. Omit 2 middle studs if A is less than 31".
5. Omit body stiffeners if A or B is less than 29".
6. Omit 2 middle studs if B is less than 31".
7. Omit door stiffener if A or B is less than 31".

Literature pocket supplied loose.
Number of door clamps varies to enclosure size.

Part No.	A	B	C	Panel Size D	E	Mtg.Centers F	G	Ship Wt. lbs.
1418N4S16B6[2]	16	12	6	13	9	9.5	17.25	28
1418N4S16G6[2]	16	16	6	13	13	10.0	17.25	30
1418N4S16CR6[2]	16	20	6	13	17	14.0	17.25	38
1418N4S16C6[2]	20	16	6	17	13	10.0	21.25	38
1418N4S16D6[2]	20	20	6	17	17	14.0	21.25	40
1418N4S16E6	24	20	6	21	17	14.0	25.25	61
1418N4S16J6	24	24	6	21	21	18.0	25.25	65
1418N4S16B8	16	12	8	13	9	9.5	17.25	32
1418N4S16C8[2]	20	16	8	17	13	10.0	21.25	38
1418N4S16D8[2]	20	20	8	17	17	14.0	21.25	52
1418N4S16ER8	20	24	8	17	21	18.0	21.25	61
1418N4S16H8	24	16	8	21	13	10.0	25.25	61
1418N4S16E8	24	20	8	21	17	14.0	25.25	61
1418N4S16J8	24	24	8	21	21	18.0	25.25	75
1418N4S16KR8	24	30	8	21	27	24.0	25.25	89
1418N4S16F8	30	20	8	27	17	14.0	31.25	72
1418N4S16K8	30	24	8	27	21	18.0	31.25	89
1418N4S16KK8	30	30	8	27	27	24.0	31.25	100
1418N4S16L8	36	24	8	33	21	18.0	37.25	100
1418N4S16M8	36	30	8	33	27	24	37.25	121

Part No.	A	B	C	Panel Size D	E	Mtg.Centers F	G	Ship Wt. lbs.
1418N4S16P8[1]	42	36	8	39	33	30	43.25	177
1418N4S16S8[1]	48	36	8	45	33	30	49.25	207
1418N4S16C10	20	16	10	17	13	10	21.25	47
1418N4S16E10	24	20	10	21	17	14	25.25	66
1418N4S16K10	30	24	10	27	21	18	31.25	120
1418N4S16L10	36	24	10	33	21	18	37.25	108
1418N4S16M10	36	30	10	33	27	24	37.25	125
1418N4S16O10[1]	42	30	10	39	27	24	43.25	175
1418N4S16S10[1]	48	36	10	45	33	30	49.25	215
1418N4S16J12	24	24	12	21	21	18	25.25	71
1418N4S16K12	30	24	12	27	21	18	31.25	95
1418N4S16M12	36	30	12	33	27	24	37.25	136
1418N4S16LL12[1]	36	36	12	33	33	30	37.25	202
1418N4S16S12[1]	48	36	12	45	33	30	49.25	225
1418N4S16T12[1]	60	36	12	57	33	30	61.25	270
1418N4S16K16	30	24	16	27	21	18	31.25	100
1418N4S16M16	36	30	16	33	27	24	37.25	149
1418N4S16S16[1]	48	36	16	45	33	30	49.25	290
1418N4S16T16[1]	60	36	16	57	33	30	61.25	280

[1] Does not meet JIC requirements [2] Flat panel

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All dimensions in inches unless specified otherwise

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1422 Series 304 Stainless Steel Two Door Floor Mount - NEMA 4X

Continuous Hinge



Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a serious problem.

Standards

- UL 508 Type 3R, 4, 4X, and 12
- CSA Type 3R, 4, 4X, and 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Formed 12 gauge 304 stainless steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Body stiffeners are provided in the larger enclosures for extra rigidity.
- Heavy duty nickel plate/chrome coated lifting eyebolts are provided with reinforcing support angles.
- Center post is removable for easy installation of the inner panel.
- Formed lip on door and top of enclosure opening exclude flowing liquids and contaminants.
- Continuously hinged doors may be removed by pulling the stainless steel hinge pin.
- Doors are secured with heavy duty stainless steel clamps.
- Provision for padlocking.
- 12" floor stands are welded to the enclosure.
- Oil resistant gaskets are permanently secured.
- Panel supports are provided for easy panel installation.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is finished in white powder coating.

Accessories

- Breather kits...*see page* ***423***
- Door clamping hardware ...*see page* ***427***
- Door stop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Louvered ventilating plates ...*see page* ***450***
- Quick release clamp...*see page* ***427***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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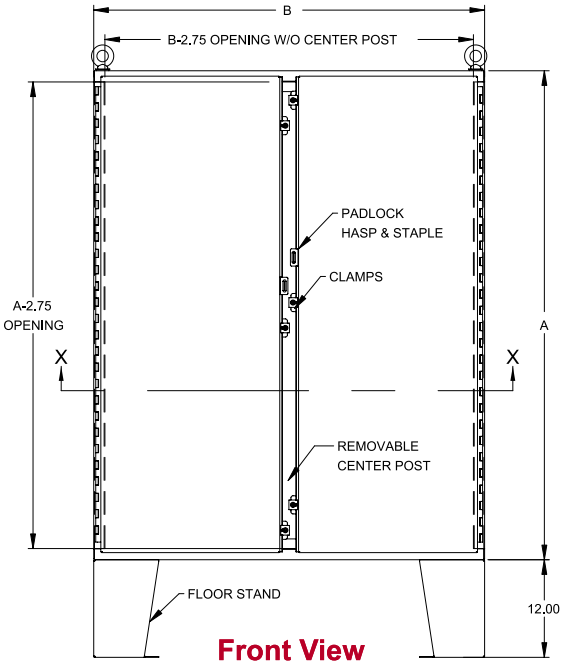
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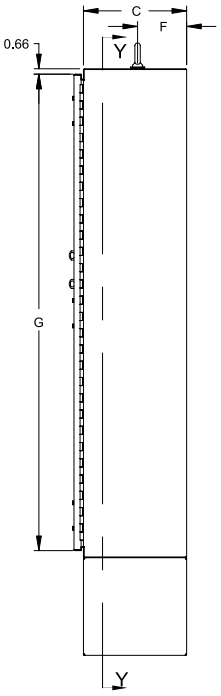
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1422 Series 304 Stainless Steel Two Door Floor Mount - NEMA 4X

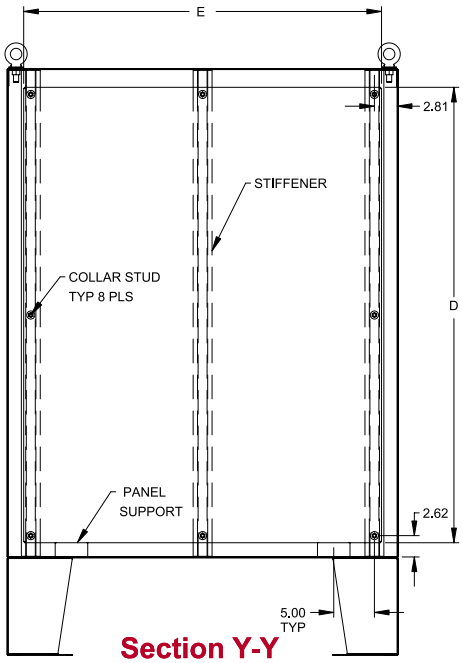
Continuous Hinge



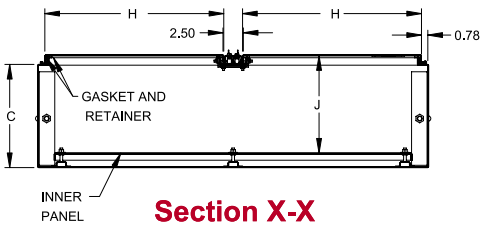
Front View



Side View



Section Y-Y



Section X-X

Part No.	A	B	C	Body Gauge	Panel Gauge	Panel Size D	Panel Size E	F	G	H	J	Ship Wt. lbs.
1422N4SSB12F	60.13	48.06	12.69	12	10	56	44	6.3	58.59	22	11.87	491
1422N4SSD12F	60.13	60.06	12.69	12	10	56	56	6.3	58.59	28	11.87	567
1422N4SSE12F	72.13	60.06	12.69	12	10	68	56	6.3	70.59	28	11.87	645
1422N4SSF12F	72.13	72.06	12.69	12	10	68	68	6.3	70.59	34	11.87	750
1422N4SSF24F	72.13	72.06	24.69	12	10	68	68	12.3	70.59	34	23.87	945

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1422 Series 316 Stainless Steel Two Door Floor Mount - NEMA 4X

Continuous Hinge



Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a serious problem.

Standards

- UL 508 Type 3R, 4, 4X, and 12
- CSA Type 3R, 4, 4X, and 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66

Construction

- Formed 12 gauge 316 stainless steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Body stiffeners are provided in the larger enclosures for extra rigidity.
- Heavy duty nickel plate/chrome coated lifting eyebolts are provided with reinforcing support angles.
- Center post is removable for easy installation of the inner panel.
- Formed lip on door and top of enclosure opening exclude flowing liquids and contaminants.
- Continuously hinged doors may be removed by pulling the stainless steel hinge pin.
- Doors are secured with heavy duty stainless steel clamps.
- Provision for padlocking.
- 12" floor stands are welded to the enclosure.
- Oil resistant gaskets are permanently secured.
- Panel supports are provided for easy panel installation.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner panel is finished in white powder coating.

Accessories

- Breather kits...*see page* ***423***
- Door clamping hardware *...see page* ***427***
- Door stop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Heaters...*see page* ***418-420***
- Louvered ventilating plates *...see page* ***450***
- Quick release clamp...*see page* ***427***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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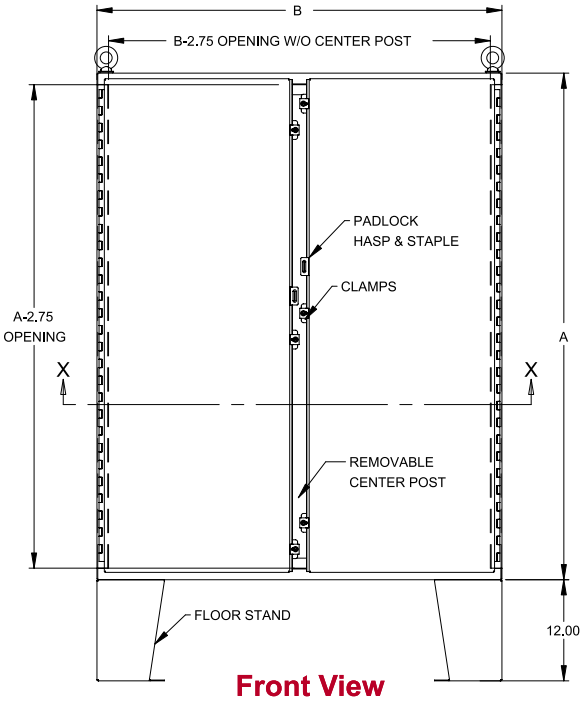
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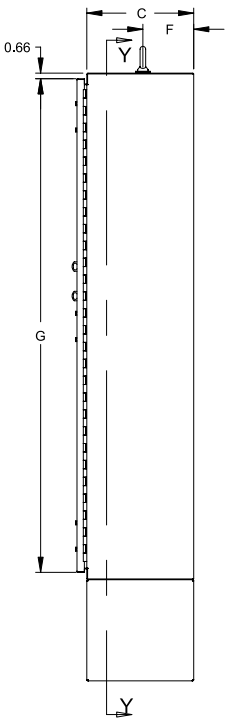
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1422 Series 316 Stainless Steel Two Door Floor Mount - NEMA 4X

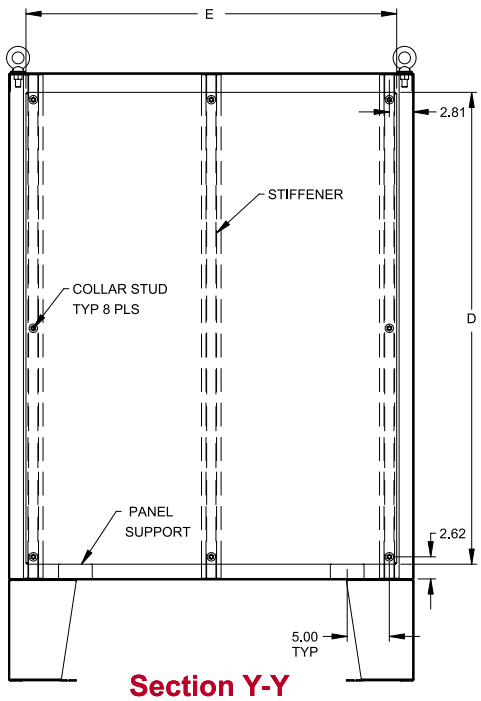
Continuous Hinge



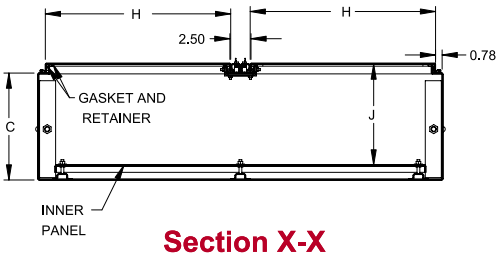
Front View



Side View



Section Y-Y



Section X-X

Part No.	A	B	C	Body Gauge	Panel Gauge	Panel Size D	Panel Size E	F	G	H	J	Ship Wt. lbs.
1422N4S16B12F	60.13	48.06	12.69	12	10	56	44	6.3	58.59	22	11.87	491
1422N4S16D12F	60.13	60.06	12.69	12	10	56	56	6.3	58.59	28	11.87	567
1422N4S16E12F	72.13	60.06	12.69	12	10	68	56	6.3	70.59	28	11.87	645
1422N4S16F12F	72.13	72.06	12.69	12	10	68	68	6.3	70.59	34	11.87	750
1422N4S16F24F	72.13	72.06	24.69	12	10	68	68	12.3	70.59	34	23.87	945

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1418 Series 304 Stainless Steel Freestanding Enclosures - NEMA 4X

Single Door



Panel Sold Separately

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls with provision for panel mounting or rack mounting of equipment.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a serious problem.
- A variety of inner panels, rack mounting rails and swing out frames are available to provide flexibility in mounting arrangements.

Standards

- UL 508 Type 3R, 4, 4X and 12
- CSA Type 3R, 4, 4X and 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Formed 12 gauge 304 stainless steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Heavy duty nickel plate/chrome coated lifting eyebolts are provided for easy enclosure handling.
- Doors are supported with heavy gauge continuous hinges.
- Doors are secured with heavy duty stainless steel clamps.
- Oil resistant gaskets are permanently secured.
- Mounting channels are welded on the inside of the enclosure for mounting of optional inner panels or rack equipment rails.
- A grounding stud is provided in the enclosure and a bonding stud is provided on the door.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Optional inner panels are finished in white powder paint.

Accessories

- Air conditioners...*see page* ***388-403***
- Breather kits...*see page* ***423***
- Door stop kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Inner panels...*see page* ***94***
- Light kit...*see page* ***447***
- Panel rails...*see page* ***94***
- Swing frames...*see page* ***95***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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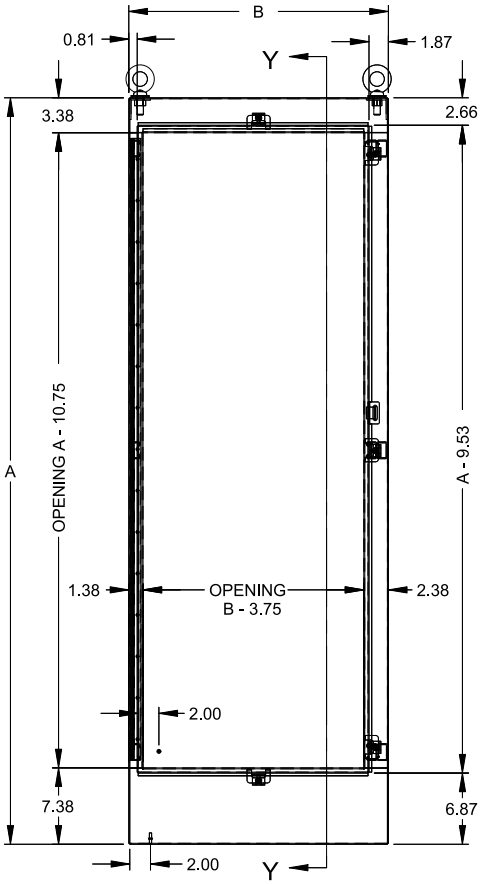
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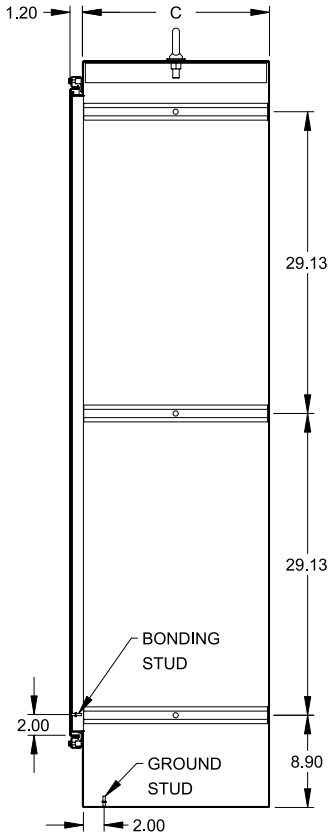
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1418 Series 304 Stainless Steel Freestanding Enclosures - NEMA 4X

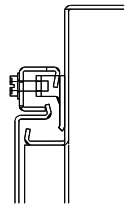
Single Door



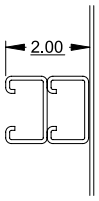
Front View



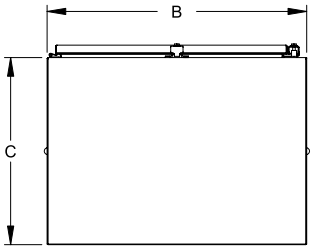
Section Y-Y



Top Lid Detail



Strut Detail - Right Side



Bottom View

Part No.	A	B	C	Optional Full Panel	Ship Wt. lbs.
1418N4SSW18	72.06	25.06	18.06	72WFW	290
1418N4SSX24	72.06	31.06	24.06	72XFW	350
1418N4SSY24	72.06	37.06	24.06	72YFW	390

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1418 Series 316 Stainless Steel Freestanding Enclosures - NEMA 4X

Single Door



Panel Sold Separately

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls with provision for panel mounting or rack mounting of equipment.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion is a serious problem.
- A variety of inner panels, rack mounting rails and swing out frames are available to provide flexibility in mounting arrangements.

Standards

- UL 508 Type 3R, 4, 4X and 12
- CSA Type 3R, 4, 4X and 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Formed 12 gauge 316 stainless steel.
- Smooth, continuously welded seams without knockouts, cutouts or holes.
- Heavy duty nickel plate/chrome coated lifting eyebolts are provided for easy enclosure handling.
- Doors are supported with heavy gauge continuous hinges.
- Doors are secured with heavy duty stainless steel clamps.
- Oil resistant gaskets are permanently secured.
- Mounting channels are welded on the inside of the enclosure for mounting of optional inner panels or rack equipment rails.
- A grounding stud is provided in the enclosure and a bonding stud is provided on the door.
- All exterior hardware on Type 316 enclosures matches the enclosure material.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Optional inner panels are finished in white powder paint.

Accessories

- Air conditioners...*see page* ***388-403***
- Breather kits...*see page* ***423***
- Door stop kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Inner panels...*see page* ***94***
- Light kit...*see page* ***447***
- Panel rails...*see page* ***94***
- Swing frames...*see page* ***95***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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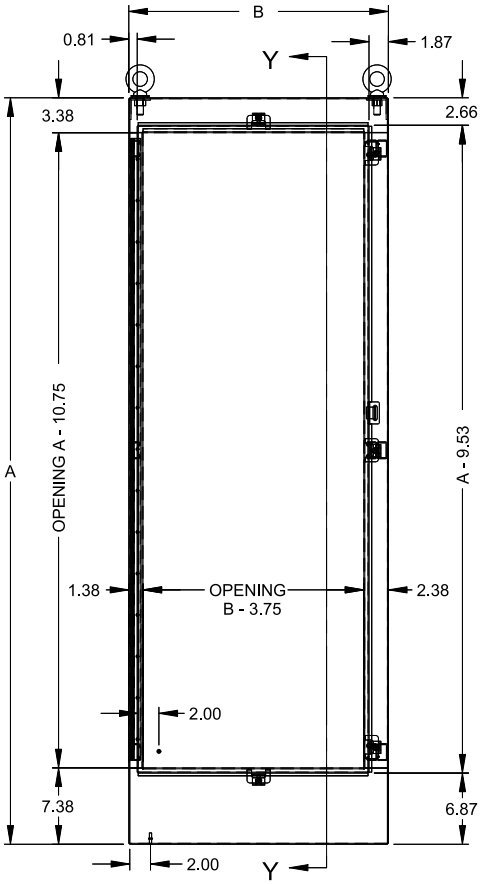
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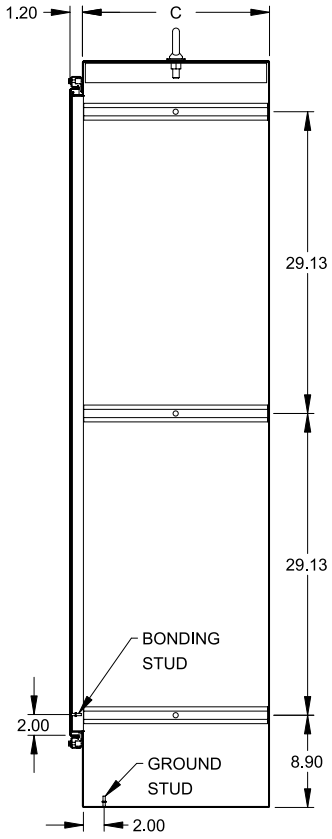
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1418 Series 316 Stainless Steel Freestanding Enclosures - NEMA 4X

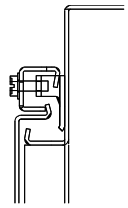
Single Door



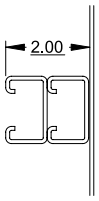
Front View



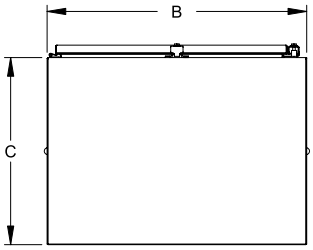
Section Y-Y



Top Lid Detail



Strut Detail - Right Side



Bottom View

Part No.	A	B	C	Optional Full Panel	Ship Wt. lbs.
1418N4S16W18	72.06	25.06	18.06	72WFW	290
1418N4S16X24	72.06	31.06	24.06	72XFW	350
1418N4S16Y24	72.06	37.06	24.06	72YFW	390

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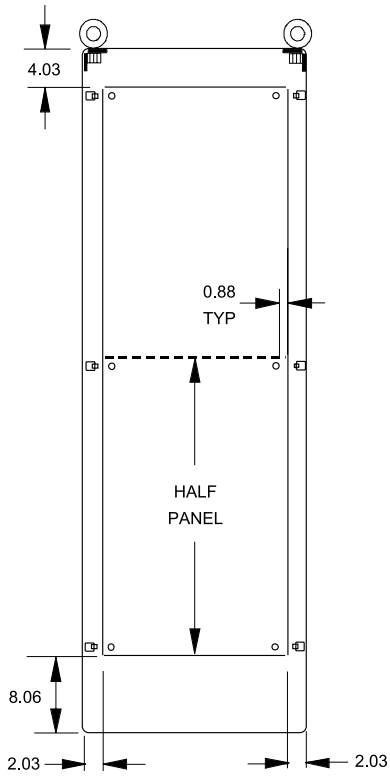
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1418 Series Freestanding Enclosures - NEMA 4, 4X

Accessories

Inner Panels

- Formed from 10 gauge or 12 gauge steel.
- Width panels are available in full or half height.
- Depth panels are available in full height only.
- Depth and width panels are provided with all mounting hardware.
- Half panel can be mounted in the top or bottom half of the enclosure.
- Finished in white.



Front View

Depth Panels

Part No.	Encl. Height	Panel Width	Panel Height
72FD14	72	14	60
72FD20	72	20	60

Side Mounted Panels for Single and Double Door Enclosures

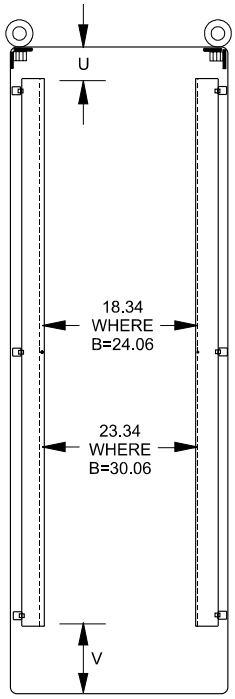


Single Door Width Panels

Part No.	Description	Enclosure	Panel Size
72WFW	Full Panel	72 x 24	60.00 x 20
72WHW	Half Panel		30.87 x 20
72XFW	Full Panel	72 x 30	60.00 x 26
72XHW	Half Panel		30.87 x 26
72YFW	Full Panel	72 x 36	60.00 x 32
72YHW	Half Panel		30.87 x 32

Panel Rails

- Provides 19" or 24" mounting capability.
- Sold in **pairs**.
- Formed from 10 gauge steel.
- Drilled and tapped 10-32 to EIA spacing of 0.5" - 0.63" - 0.63" - 0.5".
- Finished in white.



Part No.	Panel Description	Enclosure	Width	Panel Height	U	V
1418WFHP	Full Height	72 x 24	19	61.25	3.66	7.66
1418WHHP	Half Height			31.50	3.97	7.67
1418XFHP	Full Height	72 x 30	24	61.25	3.66	7.66
1418XHHP	Half Height			31.50	3.97	7.67

EIA Electronic Industries Alliance

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1418 Series Freestanding Enclosures - NEMA 4, 4X

Accessories

Swing Out Frames For 19" Rack Mounting

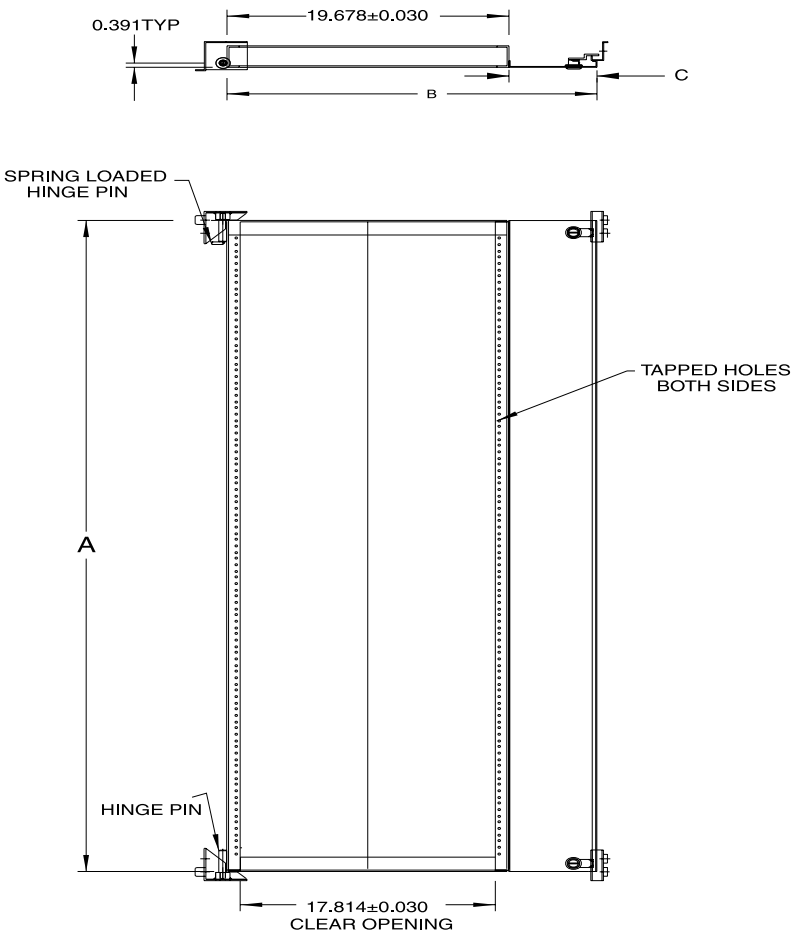
Formed from 10 gauge steel, frames are drilled and tapped to EIA requirements for mounting standard 19" rack accessories.

- The swing frame pivots on 0.5" pins within the enclosure for easy access to the rear of rack mounted equipment.
- The frame positions at any depth within the enclosure and is fastened in the closed position with quarter turn fasteners.
- Swing frames may be mounted in 30" and 36" wide enclosures.
- Finished in black.

Hardware Included

Electronic Industries Alliance

Part No.	A	B	C	Enclosure Height	Width Single Door
1418SFY	69.86	33.72	4.28	72	36
1418SFX	69.86	27.72	4.28	72	30



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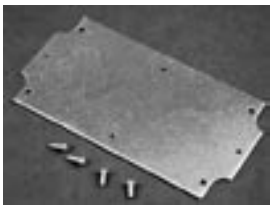
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Polycarbonate Enclosure - NEMA 4X

1554 Series





Optional Inner Panel



Feet Kit

Standards

- IP66
- NEMA 4, 4X, 12 & 13
- UL94 5V

Construction

- Electronic instrument enclosures, designed for mounting printed circuit boards or DIN rail mounted components.
- The polycarbonate material carries a UL flammability rating of UL94 5V and is suitable for outdoor use.
- Lid and mounting holes are located outside of the gasket seal.
- Lid is secured with self captivating M4 stainless steel machine screws (included), threaded into integral stainless steel bushings (for repetitive assembly & disassembly).
- Heavy duty 16 gauge galvanized steel panels available (see chart)
- All stainless steel hardware to avoid corrosion caused by dissimilar metals.
- Gasket is factory poured using high temperature U.L. listed - silicone rubber gasket material.
- Gasketed lid with two piece “tongue & groove” construction provides protection against access of oil, dust and water.
- Internal DIN rail mounting tabs molded in all except the 1554CGY & 1554C2GY
- Threaded (M3) integral brass inserts & standoffs designed for M3.5 or #6 self tapping screws for P.C. board or inner panel mounting in all but the smallest size (1554BGY & 1554B2GY)
- Vertical P.C. card guides (for 1.5 mm thick P.C. boards) are molded in all but the smallest size (1554BGY & 1554B2GY)

Finish

- Color is light gray (RAL 7035)

Optional Inner Panel

- Heavy duty panels for mounting components.
- Galvanized 16 ga. steel.
- Includes mounting hardware.

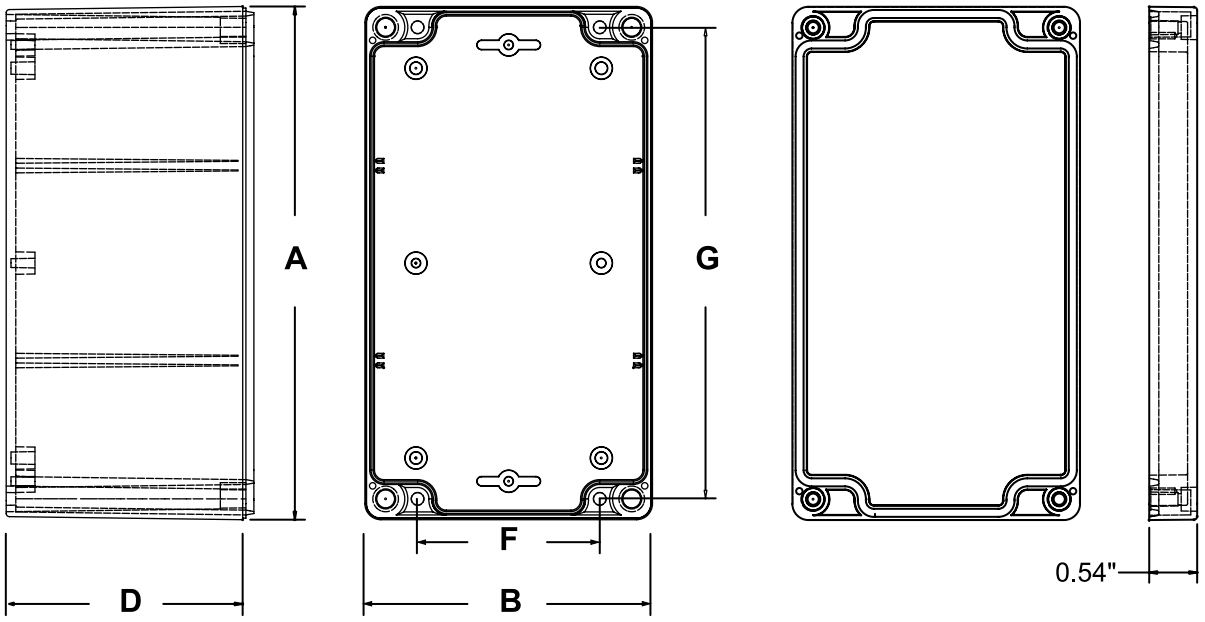
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Polycarbonate Enclosure - NEMA 4X

1554 Series



Body View **Lid View**

Part Number		Units			Overall Depth			Optional Inner Panel	Units	Dimensions	
Clear Cover	Solid Cover		A	B	C	D	F	G	Part No.		Length	Width
1554B2GYCL	**1554B2GY**	inch	2.6	2.6	1.6	0.98	2.05	1.26	**1554BPL**	inch	2.2	2.2
		mm	*65*	*65*	*40*	*25*	*52*	*32*		*mm*	*56*	*59*
1554E2GYCL	**1554E2GY**	inch	3.5	3.5	2.4	1.77	2.24	2.24	**1554EPL**	inch	3.1	3.1
		mm	*90*	*90*	*60*	*45*	*57*	*57*		*mm*	*79*	*79*
1554C2GYCL	**1554C2GY**	inch	4.7	2.6	1.6	0.98	2.05	3.43	**1554CPL**	inch	4.4	2.1
		mm	*120*	*65*	*40*	*25*	*52*	*87*		*mm*	*112*	*53*
1554D2GYCL	**1554D2GY**	inch	4.7	2.6	2.4	1.77	2.05	3.43	**1554CPL**	inch	4.4	2.1
		mm	*120*	*65*	*60*	*45*	*52*	*87*		*mm*	*112*	*53*
1554F2GYCL	**1554F2GY**	inch	4.7	3.5	2.4	1.77	2.68	4.21	**1554FPL**	inch	4.3	3.1
		mm	*120*	*90*	*60*	*45*	*68*	*107*		*mm*	*109*	*79*
1554G2GYCL	**1554G2GY**	inch	4.7	3.5	3.2	2.56	4.21	4.21	**1554FPL**	inch	4.3	3.1
		mm	*120*	*90*	*80*	*65*	*107*	*107*		*mm*	*109*	*79*
1554N2GYCL	**1554N2GY**	inch	4.7	4.7	2.4	1.77	3.43	4.21	**1554NPL**	inch	4.25	4.2
		mm	*120*	*120*	*60*	*45*	*87*	*107*		*mm*	*108*	*107*
1554P2GYCL	**1554P2GY**	inch	4.7	4.7	3.15	2.56	3.43	4.21	**1554NPL**	inch	4.25	4.2
		mm	*120*	*120*	*80*	*65*	*87*	*107*		*mm*	*108*	*107*
1554J2GYCL	**1554J2GY**	inch	6.3	3.5	2.4	1.77	2.24	5.79	**1554JPL**	inch	5.8	3
		mm	*160*	*90*	*60*	*45*	*57*	*147*		*mm*	*147*	*76*
1554K2GYCL	**1554K2GY**	inch	6.3	3.5	3.5	2.95	2.24	5.79	**1554JPL**	inch	5.8	3
		mm	*160*	*90*	*90*	*75*	*57*	*147*		*mm*	*147*	*76*
1554R2GYCL	**1554R2GY**	inch	6.3	6.3	2.4	1.77	5.00	5.79	**1554RPL**	inch	5.94	5.8
		mm	*160*	*160*	*60*	*45*	*127*	*147*		*mm*	*151*	*147*
1554S2GYCL	**1554S2GY**	inch	6.3	6.3	3.5	2.95	5.00	5.79	**1554RPL**	inch	5.94	5.8
		mm	*160*	*160*	*90*	*75*	*127*	*147*		*mm*	*151*	*147*
1554H2GYCL	**1554H2GY**	inch	7.1	4.7	2.4	1.77	3.43	6.58	**1554HPL**	inch	6.6	4.2
		mm	*180*	*120*	*60*	*45*	*87*	*167*		*mm*	*168*	*107*
1554T2GYCL	**1554T2GY**	inch	7.1	4.7	3.5	2.95	3.43	6.58	**1554HPL**	inch	6.6	4.2
		mm	*180*	*120*	*90*	*75*	*87*	*167*		*mm*	*168*	*107*
1554U2GYCL	**1554U2GY**	inch	7.9	4.7	3.5	2.95	3.43	7.37	**1554UPL**	inch	7.6	4.2
		mm	*200*	*120*	*90*	*75*	*87*	*187*		*mm*	*193*	*107*
1554V2GYCL	**1554V2GY**	inch	9.5	6.3	3.5	2.95	5.00	8.93	**1554VPL**	inch	9.1	5.7
		mm	*240*	*160*	*90*	*75*	*127*	*227*		*mm*	*231*	*145*

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Polyester Modular Enclosures - NEMA 4X

PB Series - Clear Cover



Panel Sold Separately

c UL us

Application

- Designed for use as insulated instrument enclosures, electric, control housings, electrical junction boxes or terminal wiring enclosures.
- Transparent cover provides visibility of inner components without exposure to the environment.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.
- High UV resistance is ideal for outdoor installations.

Construction

- Base is constructed of hot molded fiberglass reinforced polyester and has a clear polycarbonate lid.
- Self-extinguishing materials.
- Sealable slotted screws are provided to close the enclosure.
- M6 screws are provided for attaching inner panels or other equipment.
- Fully gasketed lids.
- Operating temperatures between -30°C and 120°C (-22°F to 248°F).
- Dielectric rigidity > 5kV insulating resistance > 5 MW.

Finish

- Fiberglass polyester base is finished in RAL 7032 beige.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum.

Accessories

- External hinges...see page 102
- Mounting feet...see page 103
- Painted steel inner panels...see page 102
- PB replacement screws...see page 103
- Unfinished aluminum inner panels...see page 102

Standards

- UL/cUL 508 Type 1, 2, 3, 4, 4X, 12 & 13
- **Complies with**
  - NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12, 13
  - IEC 60529, IP66

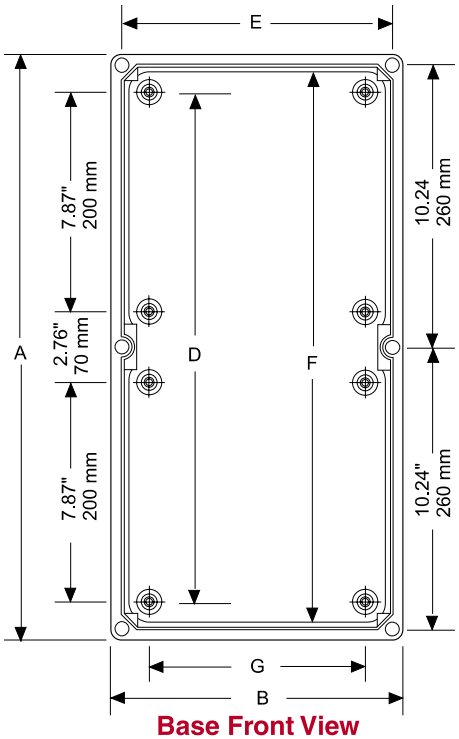
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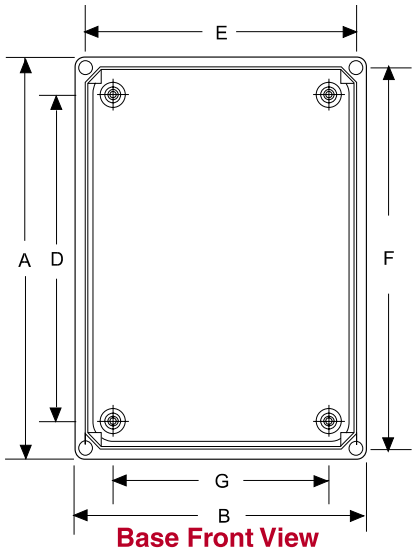
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Polyester Modular Enclosures - NEMA 4X

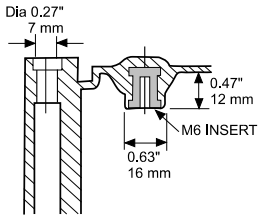
PB Series - Clear Cover



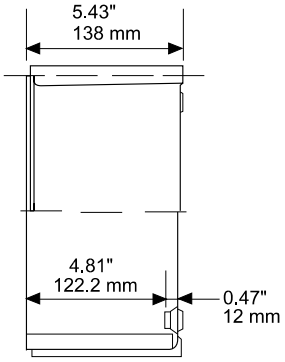
Base Front View
PB542718CC
PB543618CC



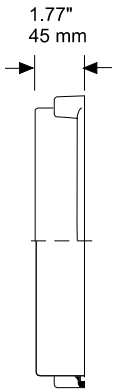
Base Front View
PB271818CC,
PB272718CC,
PB362718CC



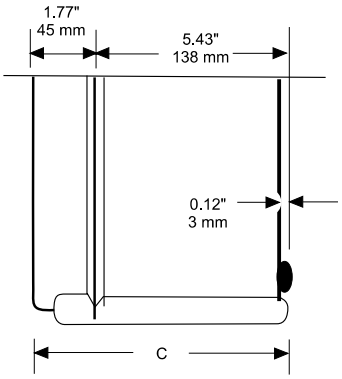
Cross Section of Base Inside Corner with M6 Insert



Base Side View



Lid Side View



Assembled Side View

Clear Lid Part No.		Overall Dimensions A	B	C	D	E	F	G	Opt. Steel Inner Panel[1]	Inner Panel Dimensions	Ship Wt. lbs
PB271818CC	inch	10.6	7.1	7.1	7.9	6.3	9.8	4.3	**PBP2718**	9.06 x 5.51	3
	mm	*270*	*180*	*180*	*200*	*159*	*249*	*110*		*230 x 140*	
PB272718CC	inch	10.6	10.6	7.1	7.9	9.8	9.8	7.9	**PBP2727**	9.06 x 9.06	4
	mm	*270*	*270*	*180*	*200*	*249*	*249*	*200*		*230 x 230*	
PB362718CC	inch	14.2	10.6	7.1	11.4	9.8	13.3	7.9	**PBP3627**	12.60 x 9.06	4
	mm	*360*	*270*	*180*	*290*	*249*	*339*	*200*		*320 x 230*	
PB542718CC	inch	21.3	10.6	7.1	18.5	9.8	20.4	7.9	**PBP5427**	19.69 x 9.06	6
	mm	*540*	*270*	*180*	*470*	*249*	*519*	*200*		*500 x 230*	
PB543618CC	inch	21.3	14.2	7.1	18.5	13.3	20.4	11.4	**PBP5436**	19.69 x 12.60	10
	mm	*540*	*360*	*180*	*470*	*339*	*519*	*290*		*500 x 320*	

[1] For aluminum panel...*see page* **102**.
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Polyester Modular Enclosures - NEMA 4X

PB Series - Solid Cover



Panel Sold Separately

Application

- Designed for use as insulated instrument enclosures, electric, control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.
- High UV resistance ideal for outdoor installations.

Standards

- UL/cUL 508 Type 1, 2, 3, 4, 4X, 12 & 13
- **Complies with**
  - NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12, 13
  - IEC 60529, IP66

Construction

- Bases and lids are constructed of hot molded fiberglass reinforced polyester.
- Self-extinguishing materials.
- Sealable slotted screws are provided to close the enclosure.
- M6 screws are provided for attaching inner panels or other equipment.
- Fully gasketed lids.
- Operating temperatures between -30°C and 150°C (-22°F to 302°F).
- Dielectric rigidity > 5kV insulating resistance > 5 MW.
- For corrosion resistance information, please refer to table in the Technical Information section... *see page* **467**.

Finish

- Fiberglass polyester material is finished in RAL 7032 beige.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum.

Accessories

- External hinges...*see page* ***102***
- Mounting feet...*see page* ***103***
- Painted steel inner panels...*see page* ***102***
- PB replacement screws...*see page* ***103***
- Unfinished aluminum inner panels...*see page* ***102***

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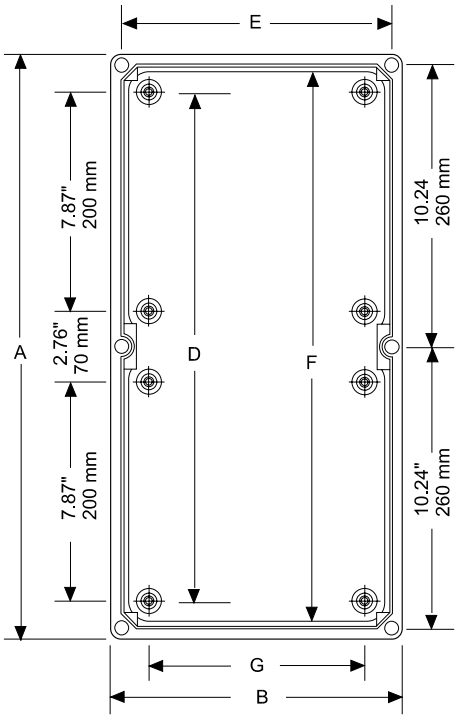
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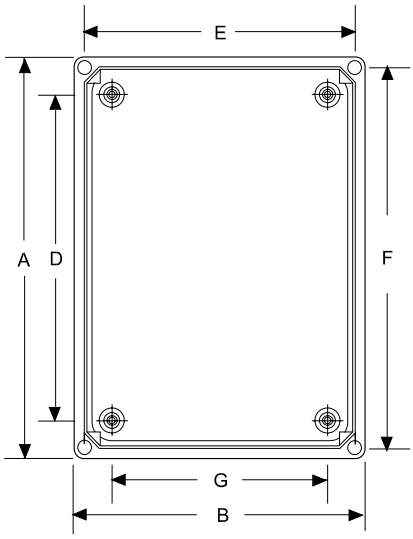
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Polyester Modular Enclosures - NEMA 4X

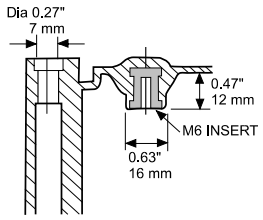
PB Series - Solid Cover



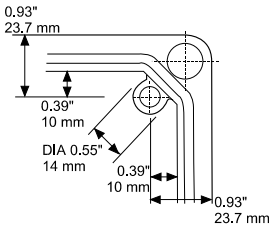
Base Front View PB542718



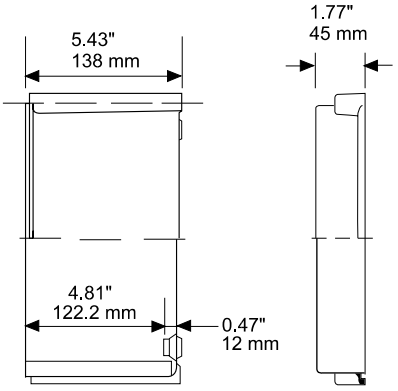
Base Front View PB271818, PB272718, PB362718



Cross Section of Base Inside Corner with M6 Insert

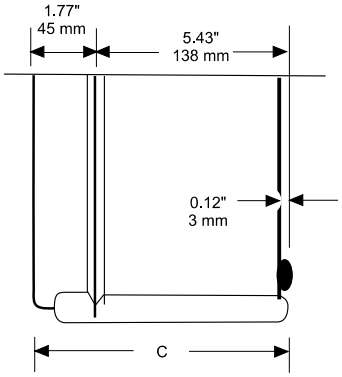


Typical Corner View Polyester Cover



Base Side View

Lid Side View



Assembled Side View

Solid Lid Part No.	Units	Overall Dimensions A	B	C	D	E	F	G	Opt. Steel Inner Panel[1]	Inner Panel Dimensions	Ship Wt. lbs
PB271818	inch	10.6	7.1	7.1	7.9	6.3	9.8	4.3	**PBP2718**	9.06 x 5.51	3
	mm	*270*	*180*	*180*	*200*	*159*	*249*	*110*		*230 x 140*	
PB272718	inch	10.6	10.6	7.1	7.9	9.8	9.8	7.9	**PBP2727**	9.06 x 9.06	5
	mm	*270*	*270*	*180*	*200*	*249*	*249*	*200*		*230 x 230*	
PB362718	inch	14.2	10.6	7.1	11.4	9.8	13.3	7.9	**PBP3627**	12.60 x 9.06	5
	mm	*360*	*270*	*180*	*290*	*249*	*339*	*200*		*320 x 230*	
PB542718	inch	21.3	10.6	7.1	18.5	9.8	20.4	7.9	**PBP5427**	19.69 x 9.06	7
	mm	*540*	*270*	*180*	*470*	*249*	*519*	*200*		*500 x 230*	

[1] For aluminum panel...*see page* **102**.
Inches are for reference only. Use metric for precise measurements.

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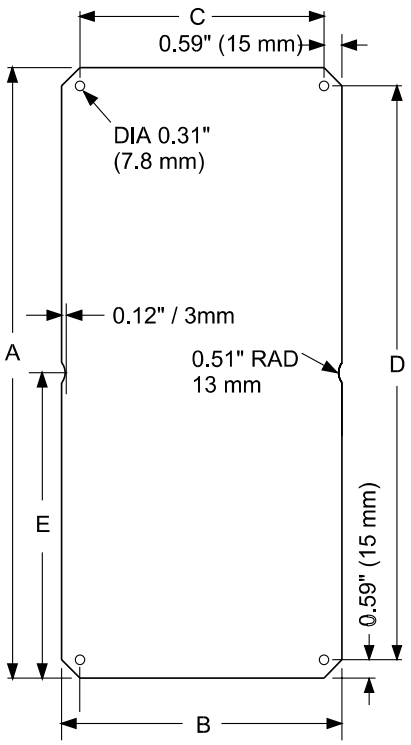
PB Series - Accessories



PB Series Inner Panel

- Available in steel or unfinished aluminum.
- 14 gauge steel panels are finished in white powder coating.
- Aluminum panels are 0.080" (2.03 mm) unfinished.
- Hardware to mount inner panel is included with PB series enclosures.





Steel Panel Part No.	Aluminum Panel	Fits PB Enclosure		A	B	C	D	E
PBP2718	**PBPA2718**	PB271818	inch	9.06	5.51	4.33	7.88	—
		PB271818CC	*mm*	*230*	*140*	*110*	*200*	
PBP2727	**PBPA2727**	PB272718	inch	9.06	9.06	7.88	7.88	—
		PB272718CC	*mm*	*230*	*230*	*200*	*200*	
PBP3627	**PBPA3627**	PB362718	inch	12.60	9.06	7.88	11.42	—
		PB362718CC	*mm*	*320*	*230*	*200*	*290*	
PBP5427	**PBPA5427**	PB542718	inch	19.69	9.06	7.88	18.51	9.84
		PB542718CC	*mm*	*500*	*230*	*200*	*470*	*250*
PBP5436	**PBPA5436**	PB543618	Inch	19.69	12.60	11.42	18.51	9.84
		PB543618CC	*mm*	*500*	*320*	*290*	*470*	*250*



PB Series External Hinges

- Fit all PB series enclosures sizes.
- External hinges have a 180° opening.
- Polyamide and fiberglass construction.
- Maintains IP rating when installed.
- Packaged in quantities of two.
- Easily installed in the field.



Part No.	PBEH

Technical references and DXF downloads available at www.hammfg.com

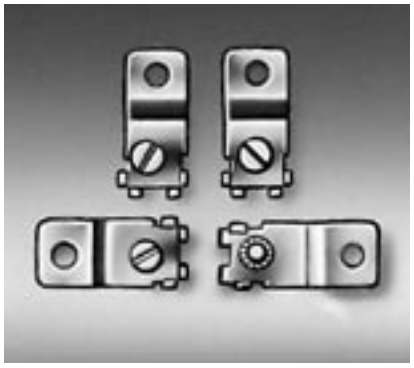
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Polyester Modular Enclosures - NEMA 4X

PB Series - Accessories

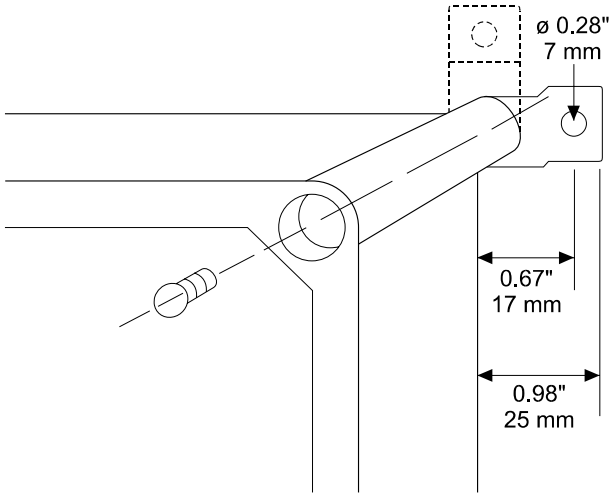




PB Series Mounting Feet

- Constructed of stainless steel.
- Fits all sizes of PB series enclosures.
- Packaged in quantities of four.
- Can be mounted horizontally or vertically.
- Easily installed in the field.

Part No.	PBMF





PB Replacement Screws

- Fit all PB series enclosure sizes.
- Replacement screws in case the original screws are lost or broken.
- Packaged in quantities of eight.

Part No.	PBSC8

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Polyester Modular Enclosures - NEMA 4X

R130 Series Enclosures



Application

- Designed for use as instrument enclosures, electrical junction boxes or terminal wiring enclosures.
- Provide outstanding protection against dust, oil and pressurized water.
- Impervious to atmospheric and marine corrosion.

Standards

- **Complies with**
  - NEMA 1, 2, 3, 3R, 4, 4X, 5, 12, 13
  - IEC 60529, IP66
- VO Flammability Rating

Construction

- Two piece molded fiberglass reinforced polyester construction.
- Captive polyfibre cover screws are provided with a standard slot head.
- Cover screws fasten into pre-threaded holes.
- The threaded cover screw holes also provide single channel access to rear mounting positions.
- Recessed neoprene gasket with tongue and groove construction is oil and petroleum resistant.
- Threaded stainless steel inserts provide for internal mounting.
- Spring loaded stainless steel hinge pins are standard, allowing for quick lid removal.

Finish

- Light beige RAL 7032

Accessories

- External mounting feet...*see page* ***105***
- Inner panels...*see page* ***105***
- Cross rails...*see page* ***105***
- Bonded acrylic glass windows are available on special request.

Part No.	Series	Units	Width A	Length B	Height C	D	E	F	G	H	I	J	K	K1	L	M	N	P
R130-120-000	PD-120	inch	4.72	5.51	3.94	4.65	3.86	4.33	4.25	3.62	2.81	3.82	3.74	2.28		2.76	3.62	0.28
		mm	*120*	*140*	*100*	*118*	*98*	*110*	*108*	*92*	*71.5*	*97*	*95*	*58*	*M6*	*70*	*92*	*7*
R130-122-000	PD-122	inch	4.72	7.87	3.94	7.01	3.86	6.69	4.25	5.98	2.81	6.18	3.74	2.28		2.76	3.62	0.28
		mm	*120*	*200*	*100*	*178*	*98*	*170*	*108*	*152*	*71.5*	*157*	*95*	*58*	*M6*	*70*	*92*	*7*
R130-124-000	PD-124	inch	4.72	10.24	3.94	9.37	3.86	9.06	4.25	8.35	2.81	8.54	3.74	2.28		2.76	3.62	0.28
		mm	*120*	*260*	*100*	*238*	*98*	*230*	*108*	*212*	*71.5*	*217*	*95*	*58*	*M6*	*70*	*92*	*7*
R130-160-000	PD-160	inch	6.30	7.09	3.94	6.22	5.43	5.91	5.83	5.20	4.39	5.39	5.31	3.86		2.76	3.62	0.28
		mm	*160*	*180*	*100*	*158*	*138*	*150*	*148*	*132*	*111.5*	*137*	*135*	*98*	*M6*	*70*	*92*	*7*
R130-162-000	PD-162	inch	6.30	10.24	3.94	9.37	5.43	9.06	5.83	8.35	4.39	8.54	5.31	3.86		2.76	3.62	0.28
		mm	*160*	*260*	*100*	*238*	*138*	*230*	*148*	*212*	*111.5*	*217*	*135*	*98*	*M6*	*70*	*92*	*7*
R130-164-000	PD-164	inch	6.30	13.39	3.94	12.52	5.43	12.20	5.83	11.50	4.39	11.69	5.31	3.86		2.76	3.62	0.28
		mm	*160*	*340*	*100*	*318*	*138*	*310*	*148*	*292*	*111.5*	*297*	*135*	*98*	*M6*	*70*	*92*	*7*
R130-200-000	PD-200	inch	7.87	8.66	4.72	7.80	7.01	7.46	7.38	6.73	5.94	6.97	6.89	5.43		3.54	4.41	0.28
		mm	*200*	*220*	*120*	*198*	*178*	*189.5*	*187.5*	*171*	*151*	*177*	*175*	*138*	*M6*	*90*	*112*	*7*
R130-202-000	PD-202	inch	7.87	12.60	4.72	11.73	7.01	11.40	7.38	10.67	5.94	10.91	6.89	5.43		3.54	4.41	0.28
		mm	*200*	*320*	*120*	*298*	*178*	*289.5*	*187.5*	*271*	*151*	*277*	*175*	*138*	*M6*	*90*	*112*	*7*

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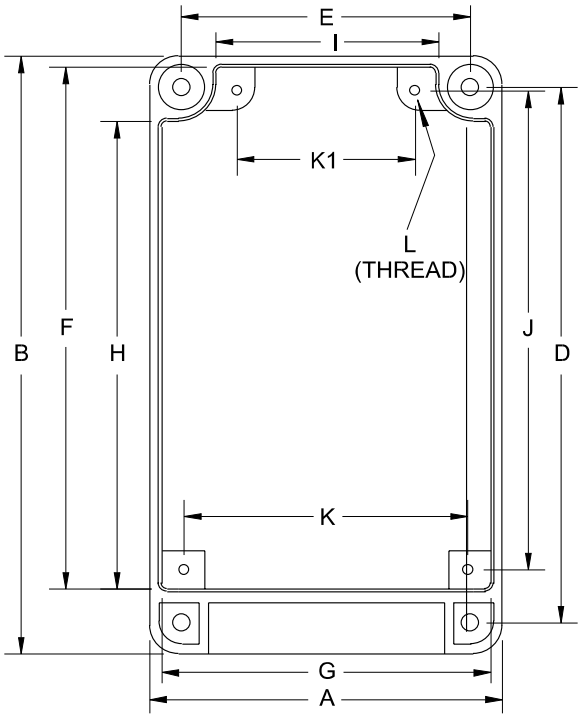
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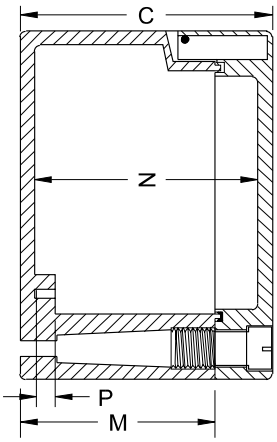
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Polyester Modular Enclosures - NEMA 4X

R130 Series Enclosures



Front View



Side View

Accessories

Part No.	External Feet (Set of 4) Stainless Steel	Inner Panel (1.5 mm) Steel, Zinc Plated	Cross Rail (Pair) (Low Bottom Part)
R130-120-000	R501-000-001	R530-120-000	R531-120-000
R130-122-000	R501-000-001	R530-122-000	R531-120-000
R130-124-000	R501-000-001	R530-124-000	R531-120-000
R130-160-000	R501-000-001	R530-160-000	R531-160-000
R130-162-000	R501-000-001	R530-162-000	R531-160-000
R130-164-000	R501-000-001	R530-164-000	R531-160-000
R130-200-000	R501-000-001	R530-200-000	R531-200-000
R130-202-000	R501-000-001	R530-202-000	R531-200-000

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Polyester Enclosure - NEMA 4X

1590ZGRP Series



Application

- Designed for use as instrument enclosures, electrical junction boxes or terminal wiring enclosures.
- Provide outstanding protection against dust, oil and pressurized water.
- Impervious to atmospheric and marine corrosion.
- Ideal in applications with high temperatures or highly corrosive environments.

Standard

- UL/cUL 508 Type 1, 2, 3, 4, 4X, 12 & 13

  Complies with
  - NEMA 1, 2, 3, 4, 4X, 12, 13
  - IEC 60529, IP66

Construction

- Two piece molded fiberglass reinforced polyester construction.
- Captive polyfibre cover screws are provided with a standard slot head.
- Cover screws fasten into pre-threaded holes.
- The threaded cover screw holes also provide single channel access to rear mounting positions.
- Recessed neoprene gasket with tongue and groove construction is oil and petroleum resistant.
- Threaded stainless steel inserts provide for internal mounting.
- Spring loaded stainless steel hinge pins are standard, allowing for quick lid removal.

Finish

- Grey RAL 7000

Accessories

- Galvanized Steel Inner panels...*see page* ***107***

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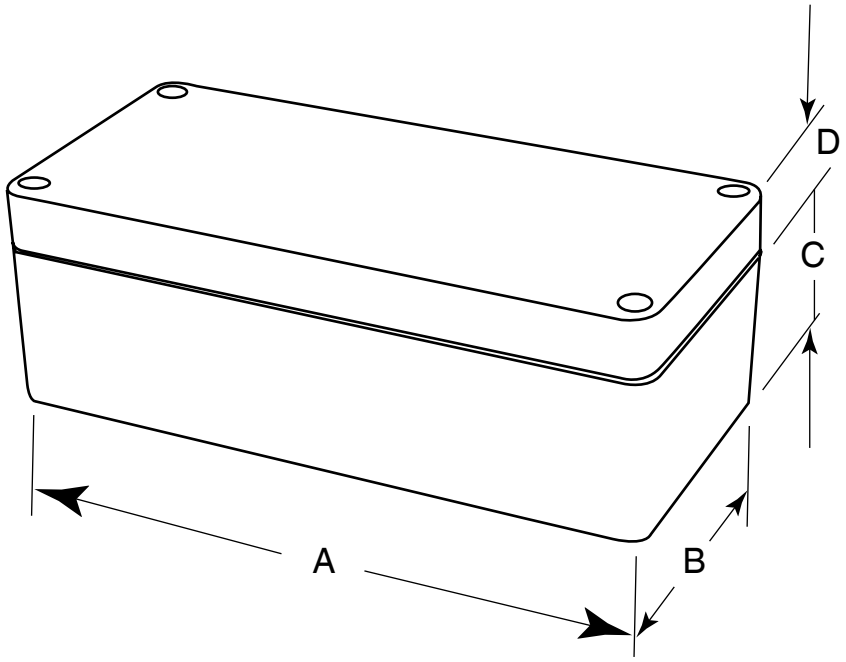
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Polyester Enclosure - NEMA 4X

1590ZGRP Series



Part Number	Units	Dimensions A	B	C	D	Optional Inner Panel Part Number
1590ZGRP081	inch	3.15	2.95	1.57	0.59	**1590ZGRP081PL**
	mm	80	75	40	15	
1590ZGRP082	inch	4.33	2.95	1.57	0.59	**1590ZGRP082PL**
	mm	110	75	40	15	
1590ZGRP083	inch	6.30	2.95	1.57	0.59	**1590ZGRP083PL**
	mm	160	75	40	15	
1590ZGRP121	inch	4.80	4.72	2.56	0.98	**1590ZGRP121PL**
	mm	122	120	65	25	
1590ZGRP123	inch	8.66	4.72	2.76	0.79	**1590ZGRP123PL**
	mm	220	120	70	20	
1590ZGRP131	inch	7.48	2.95	1.57	0.59	**1590ZGRP131PL**
	mm	190	75	40	15	
1590ZGRP161	inch	6.30	6.30	2.76	0.79	**1590ZGRP161PL**
	mm	160	160	70	20	
1590ZGRP162	inch	10.24	6.30	2.76	0.79	**1590ZGRP162PL**
	mm	260	160	70	20	
1590ZGRP233	inch	9.84	7.87	3.74	0.98	**1590ZGRP233PL**
	mm	250	200	95	25	
1590ZGRP234	inch	10.04	9.84	3.74	0.98	**1590ZGRP234PL**
	mm	255	250	95	25	
1590ZGRP235	inch	10.04	9.84	3.74	2.56	**1590ZGRP234PL**
	mm	255	250	95	65	
1590ZGRP243	inch	15.75	9.84	3.74	0.98	**1590ZGRP243PL**
	mm	400	250	95	25	
1590ZGRP263	inch	23.62	9.84	3.74	0.98	**1590ZGRP263PL**
	mm	600	250	95	25	

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Polyester Modular Enclosures - NEMA 4X

PJ Series - Lift-Off and Hinged Screw Cover



Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- **Complies with**
  - NEMA Type 1, 2, 3, 4, 4X,12 and 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18" x 16".
- 10-32 threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware included.
- Cover is fastened with captive stainless steel screws in threaded brass inserts.
- Captive oil resistant gasket provides a positive seal.
- Threaded brass inserts are provided for mounting feet to the rear of the enclosure.
- Stainless steel mounting brackets and hardware are provided for mounting feet to the rear of the enclosure.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel, unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels *...see page* ***129***
- PJ/ PJU swing panel*...see page* ***129***
- Unfinished aluminum inner panels*...see page* ***129***
- Fiberglass inner panels *...see page* ***129***
- Terminal kit assemblies *...see page* ***436***
- Viewing windows*...see page* ***138***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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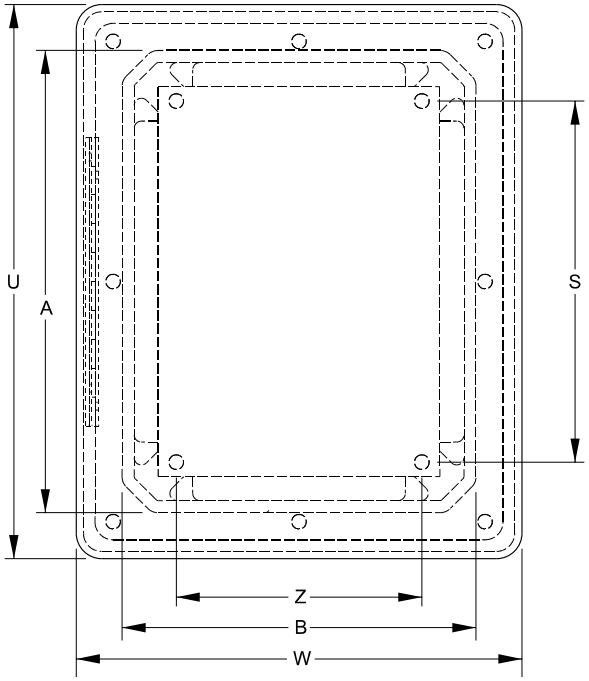
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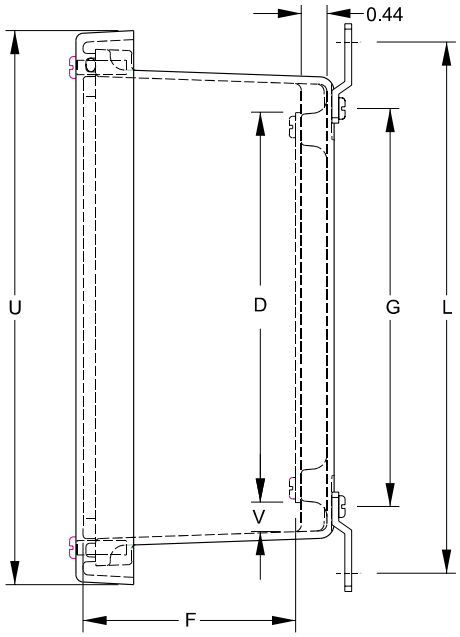
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Polyester Modular Enclosures - NEMA 4X

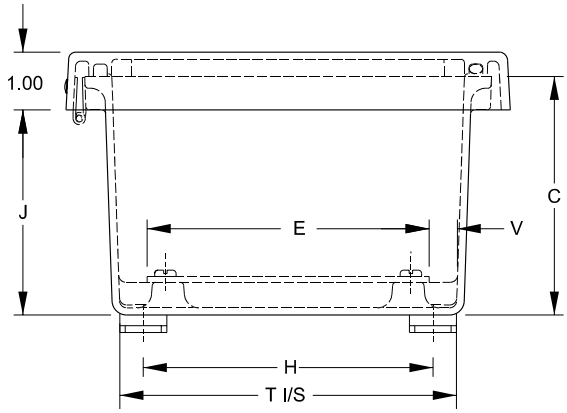
PJ Series - Lift-Off and Hinged Screw Cover



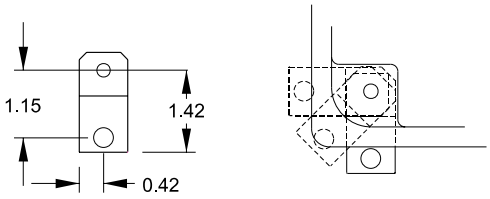
Front View
Hinged Screw Cover



Side View



End View



Optional Mounting Feet Locations

Thermal Index
130°C to -40°C (266°F to -40°F)

Impact Index
6.78J (5 ft/lb)

Lift-Off Cover Part No.	Hinged Cover Part No.	Enclosure Dimensions A	B	C	Panel Dimensions D	E	F	G	Centers H	J	S	Z	L	T	V	Cover Dimensions U	W	Opt Steel Panel Part No.[1]	Ship Wt. Lbs.
PJ664	**PJ664H**	6.10	6.10	4.13	4.88	4.88	3.76	5.01	5.01	3.52	4.25	4.25	7.32	5.83	0.49	7.69	7.69	**14R0505**	4
PJ864	**PJ864H**	8.00	6.12	4.13	6.75	4.88	3.68	6.89	5.01	3.47	6.25	4.25	9.19	5.85	0.50	9.59	7.71	**14R0705**	4
PJ1084	**PJ1084H**	10.13	8.26	4.13	8.75	6.88	3.68	8.89	7.01	3.47	8.25	6.25	11.19	7.85	0.50	11.77	9.90	**14R0907**	6
PJ1086	**PJ1086H**	10.13	8.26	6.13	8.75	6.88	5.68	8.89	7.01	5.47	8.25	6.25	11.19	7.85	0.50	11.77	9.90	**14R0907**	6
PJ12106	**PJ12106H**	12.13	10.26	6.13	10.75	8.88	5.68	10.89	9.01	5.47	10.25	8.25	13.19	9.85	0.50	13.77	11.90	**14R1109**	8
PJ14126	**PJ14126H**	14.13	12.26	6.13	12.75	10.88	5.68	12.89	11.01	5.47	12.25	10.25	15.19	11.85	0.50	15.73	13.85	**14R1311**	11
PJ16148	**PJ16148H**	16.27	14.40	8.13	14.75	12.88	7.68	14.89	13.01	7.47	14.25	12.25	17.19	13.71	0.50	17.87	15.99	**14R1513**	12
PJ18168	**PJ18168H**	18.40	16.40	8.13	16.88	14.88	7.68	16.97	14.97	7.47	16.25	14.25	19.28	15.72	0.50	20.00	18.00	**P1868**	17
PJ20168	**PJ20168H**	20.00	16.00	8.13	18.44	14.44	7.68	18.54	14.54	7.47	17.81	13.81	20.84	15.31	0.52	21.59	17.59	**P2068**	19

[1]For aluminum and fiberglass panels...*see page* **129**.

Technical references and DXF downloads available at www.hammfg.com

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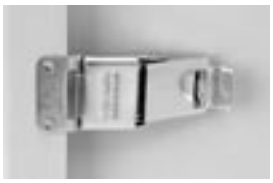
Polyester Modular Enclosures - NEMA 4X

PJ Series - Snap & Twist Latch Hinged Cover





Twist Latch Detail



Snap Latch Detail

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12, & 13
- CSA Type 1, 2, 3, 4, 4X, 12, & 13
- **Complies with**
  - NEMA Type 1, 2, 3, 4, 4X,12, & 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.

Construction...Cont'd

- 10-32 threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Stainless steel butterfly type "twist latch" door fasteners.
- Stainless steel draw type "snap latch" door fasteners.
- Door fasteners include a provision for padlocking.
- Twist latch enclosures are available with bonded polycarbonate viewing windows.
- Door is supported with a continuous stainless steel hinge.
- Captive oil resistant gasket provides a positive seal.
- Threaded brass inserts are provided for mounting feet to the rear of the enclosure.
- Stainless steel mounting brackets and hardware are provided for mounting to the rear of the enclosure.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb). For corrosion resistance information, please refer to table in the Technical Information section... *see page* **467**.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel, unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels *...see page* **129**
- PJ/ PJU swing panel*...see page* **129**
- Unfinished aluminum inner panels*...see page* **129**
- Fiberglass inner panels *...see page* **129**
- Terminal kit assemblies *...see page* **436**
- Viewing windows*...see page* **138**

Snap Latch

Part No.	Overall Dimensions A	B	C	Panel Dimensions D	E	F	G	H	J	Centers S	Z	L	T	V	Cover Dimensions U	W	Opt. Steel Panel Part No.	Ship Weight (lbs)
PJ664L	6.10	6.10	4.18	4.88	4.88	3.76	5.01	5.01	3.52	4.25	4.25	7.32	5.83	0.49	7.69	7.69	**14R0505**	4
PJ864L	8.00	6.12	4.13	6.75	4.88	3.68	6.89	5.01	3.47	6.25	4.25	9.19	5.85	0.50	9.59	7.71	**14R0705**	4
PJ1084L	10.13	8.26	4.13	8.75	6.88	3.68	8.89	7.01	3.47	8.25	6.25	11.19	7.85	0.50	11.77	9.90	**14R0907**	6
PJ1086L	10.13	8.26	6.13	8.75	6.88	5.68	8.89	7.01	5.47	8.25	6.25	11.19	7.85	0.50	11.77	9.90	**14R0907**	6
PJ12106L	12.13	10.26	6.13	10.75	8.88	5.68	10.89	9.01	5.47	10.25	8.25	13.19	9.85	0.50	13.77	11.90	**14R1109**	8
PJ14126L	14.13	12.26	6.13	12.75	10.88	5.68	12.89	11.01	5.47	12.25	10.25	15.19	11.85	0.50	15.73	13.85	**14R1311**	11
PJ16148L	16.27	14.40	8.13	14.75	12.88	7.68	14.89	13.01	7.47	14.25	12.25	17.19	13.71	0.50	17.87	15.99	**14R1513**	12
PJ18168L	18.40	16.40	8.13	16.88	14.88	7.68	16.97	14.97	7.47	16.25	14.25	19.28	15.72	0.50	20.00	18.00	**P1868**	17
PJ20168L	20.00	16.00	8.13	18.44	14.44	7.68	18.54	14.54	7.47	17.81	13.81	20.84	15.31	0.52	21.59	17.59	**P2068**	19

For aluminum and fiberglass panels...*see page* **129**.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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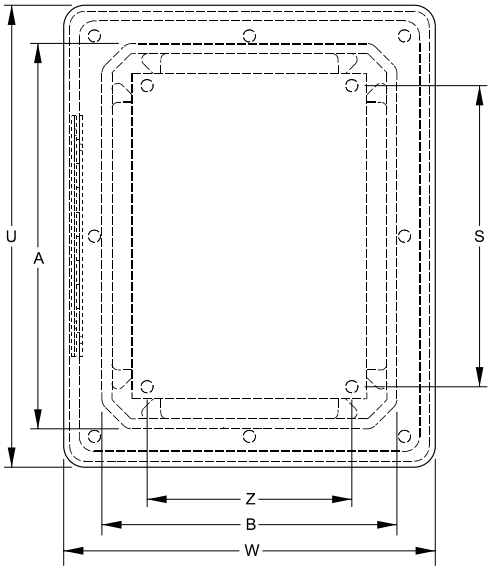
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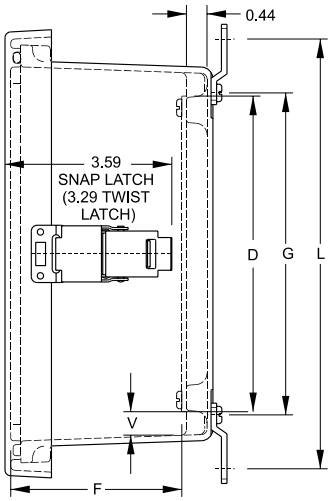
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Polyester Modular Enclosures - NEMA 4X

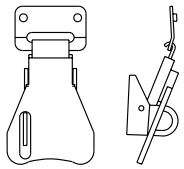
PJ Series - Snap & Twist Latch Hinged Cover



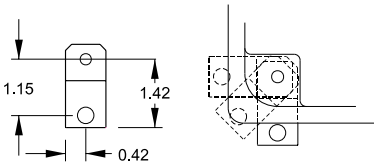
Front View



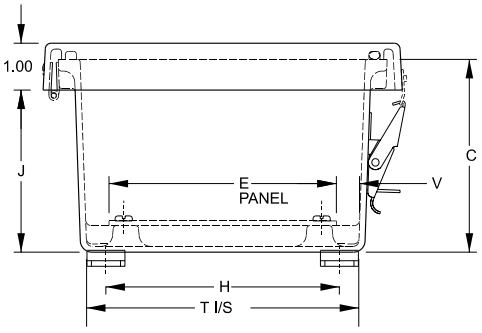
Side View



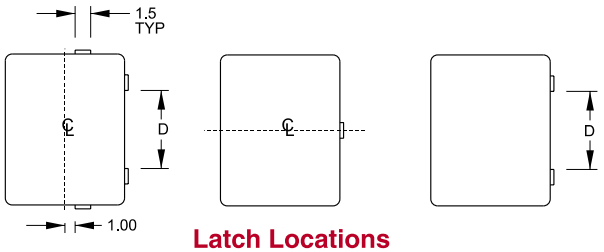
Details of Twist Latch



Optional Mounting Feet Locations



End View



Latch Locations

For use on
18 x 16 x 8 D = 5.25
20 x 16 x 8 D = 9.25

For use on
6 x 6 x 4 8 x 6 x 4
10 x 8 x 6
10 x 8 x 4

For use on
12 x 10 x 6 D = 6.75
14 x 12 x 6 D = 7.25
16 x 14 x 8 D = 7.25

Thermal Index
130°C to -40°C (266°F to -40°F)

Impact Index
6.78J (5 ft/lb)

Twist Latch

Part No.	Overall Dimensions A	B	C	Panel Dimensions D	E	F	G	H	J	Centers S	Z	L	T	Cover Dimensions V	U	W	Opt. Steel Panel Part No.	Shipping Weight (lbs)
PJ664T	6.10	6.10	4.18	4.88	4.88	3.76	5.01	5.01	3.52	4.25	4.25	7.32	5.83	0.49	7.69	7.69	**14R0505**	4
PJ864T	8.00	6.12	4.13	6.75	4.88	3.68	6.89	5.01	3.47	6.25	4.25	9.19	5.85	0.50	9.59	7.71	**14R0705**	4
PJ1084T	10.13	8.26	4.13	8.75	6.88	3.68	8.89	7.01	3.47	8.25	6.25	11.19	7.85	0.50	11.77	9.90	**14R0907**	6
PJ1086T	10.13	8.26	6.13	8.75	6.88	5.68	8.89	7.01	5.47	8.25	6.25	11.19	7.85	0.50	11.77	9.90	**14R0907**	6
PJ12106T	12.13	10.26	6.13	10.75	8.88	5.68	10.89	9.01	5.47	10.25	8.25	13.19	9.85	0.50	13.77	11.90	**14R1109**	8
PJ14126T	14.13	12.26	6.13	12.75	10.88	5.68	12.89	11.01	5.47	12.25	10.25	15.19	11.85	0.50	15.73	13.85	**14R1311**	11
PJ16148T	16.27	14.40	8.13	14.75	12.88	7.68	14.89	13.01	7.47	14.25	12.25	17.19	13.71	0.50	17.87	15.99	**14R1513**	12
PJ18168T	18.40	16.40	8.13	16.88	14.88	7.68	16.97	14.97	7.47	16.25	14.25	19.28	15.72	0.50	20.00	18.00	**P1868**	17
PJ20168T	20.00	16.00	8.13	18.44	14.44	7.68	18.54	14.54	7.47	17.81	13.81	20.84	15.31	0.52	21.59	17.59	**P2068**	19

For aluminum and fiberglass panels...*see page* 129.

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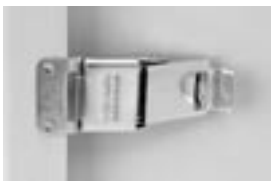
Polyester Modular Enclosures - NEMA 4X

PJ Series - Lift-Off, Hinged, Snap Latch, Twist Latch, Solid and Window Door





Twist Latch Detail



Snap Latch Detail

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12, & 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18"x16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Stainless steel draw type "snap latch" door fasteners.
- Door fasteners include a provision for padlocking.
- Enclosures are available with bonded polycarbonate viewing windows.
- Door is supported with a continuous stainless steel hinge.
- Captive oil resistant gasket provides a positive seal.
- Threaded brass inserts are provided for mounting feet to the rear of the enclosure.
- Stainless steel mounting brackets and hardware are provided for mounting to the rear of the enclosure.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).

Construction...Cont'd

- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section... *see page* ***467***.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels *...see page* ***129***
- PJ/ PJU swing panel*...see page* ***129***
- Unfinished aluminum inner panels*...see page* ***129***
- Fiberglass inner panels *...see page* ***129***
- Terminal kit assemblies *...see page* ***436***

Window Lift-Off Part No.	Window Hinged Part No.	Overall Dimensions A	B	C	Panel Size D	E	F	G	H	J	Center S	Z
PJ664W	**PJ664HW**	6.10	6.10	4.18	4.88	4.88	5.26	5.01	5.01	3.52	4.25	4.25
PJ864W	**PJ864HW**	8.00	6.12	4.13	6.75	4.88	5.21	6.89	5.01	3.47	6.25	4.25
PJ1084W	**PJ1084HW**	10.13	8.26	4.13	8.75	6.88	3.68	8.89	7.01	3.47	8.25	6.25
PJ1086W	**PJ1086HW**	10.13	8.26	6.13	8.75	6.88	7.21	8.89	7.01	5.47	8.25	6.25
PJ12106W	**PJ12106HW**	12.13	10.26	6.13	10.75	8.88	7.21	10.89	9.01	5.47	10.25	8.25
PJ14126W	**PJ14126HW**	14.13	12.26	6.13	12.75	10.88	7.21	12.89	11.01	5.47	12.25	10.25
PJ16148W	**PJ16148HW**	16.27	14.40	8.13	14.75	12.88	9.21	14.89	13.01	7.47	14.25	12.25
PJ18168W	**PJ18168HW**	18.40	16.40	8.13	16.88	14.88	9.21	16.97	14.97	7.47	16.25	14.25
PJ20168W	**PJ20168HW**	20.00	16.00	8.13	18.44	14.44	9.21	18.54	14.54	7.47	17.81	13.81

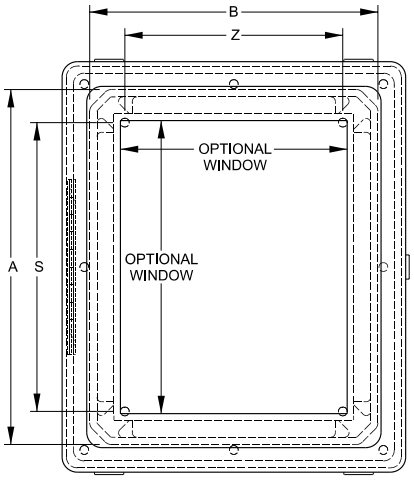
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All dimensions in inches unless specified otherwise

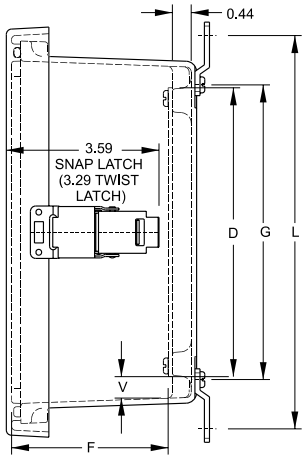
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Polyester Modular Enclosures - NEMA 4X

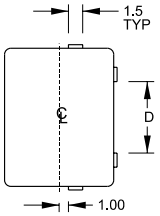
PJ Series - Lift-Off, Hinged, Snap Latch, Twist Latch, Solid and Window Door



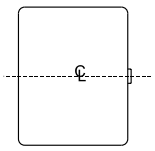
Front View



Side View



For use on
18 x 16 x 8 D = 5.25
20 x 16 x 8 D = 9.25



Latch Locations

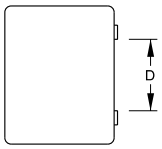
For use on
6 x 6 x 4 8 x 6 x 4
10 x 8 x 6
10 x 8 x 4

Thermal Index

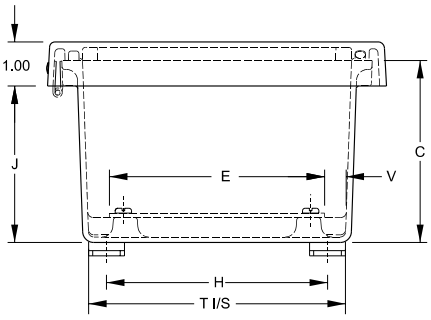
130°C to -40°C (266°F to -40°F)

Impact Index

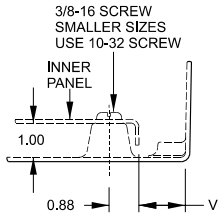
6.78J (5 ft/lb)



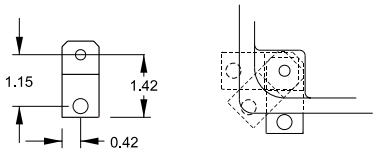
For use on
12 x 10 x 6 D = 6.75
14 x 12 x 6 D = 7.25
16 x 14 x 8 D = 7.25



End View



Detail A



Optional Mounting Feet Locations

Window Snap Latch Part No.	Window Twist Latch Part No.	Cover Dimensions L	T	K	M	U	W	R	V	Optional Panel Part No.	Window Dim. HxW	Shipping Weight (lbs)
PJ664LW	**PJ664TW**	7.32	5.83	6.08	6.08	7.69	7.69	0.44	0.49	**14R0505**	4.25x4.25	4
PJ864LW	**PJ864TW**	9.19	5.85	6.11	7.98	9.59	7.71	0.44	0.50	**14R0705**	4.25x6.25	4
PJ1084LW	**PJ1084TW**	11.19	7.85	8.44	10.32	11.77	9.90	0.44	0.50	**14R0907**	8.37x6.5	6
PJ1086LW	**PJ1086TW**	11.19	7.85	8.44	10.32	11.77	9.90	0.44	0.50	**14R0907**	8.37x6.5	6
PJ12106LW	**PJ12106TW**	13.19	9.85	10.45	12.32	13.77	11.90	0.44	0.50	**14R1109**	10.37x8.5	8
PJ14126LW	**PJ14126TW**	15.19	11.85	12.45	14.32	15.73	13.85	0.44	0.50	**14R1311**	12.37x10.5	11
PJ16148LW	**PJ16148TW**	17.19	13.71	13.86	15.73	17.87	15.99	0.44	0.50	**14R1513**	13.00x11.00	12
PJ18168LW	**PJ18168TW**	19.28	15.72	15.86	17.86	20.00	18.00	0.44	0.50	**P1868**	14.00x12.00	17
PJ20168LW	**PJ20168TW**	20.84	15.31	15.43	19.43	21.59	17.59	0.44	0.52	**P2068**	15.00x11.00	19

For aluminum and fiberglass panels...*see page* **129**.

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All dimensions in inches unless specified otherwise

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Polyester Modular Enclosures - NEMA 4X

PJ Series - Raised Lid Lift-Off, Hinged Cover, Solid and Window Door





Window Door

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18" x 16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Cover fastened with captive stainless steel screws in threaded brass inserts.
- Door fasteners include a provision for padlocking.
- Enclosures are available with bonded polycarbonate viewing windows.
- Door is supported with a continuous stainless steel hinge.
- Captive oil resistant gasket provides a positive seal.
- Threaded brass inserts are provided for mounting feet to the rear of the enclosure.
- Stainless steel mounting brackets and hardware are provided for mounting to the rear of the enclosure.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).

Construction...Cont'd

- For corrosion resistance information, please refer to table in the Technical Information section... *see page* ***467***.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels *...see page* ***129***
- PJ/ PJU swing panel*...see page* ***129***
- Unfinished aluminum inner panels*...see page* ***129***
- Fiberglass inner panels *...see page* ***129***
- Terminal kit assemblies *...see page* ***436***

Raised Lift-Off Solid Cover Part No.	Raised Window Cover Lift-Off Part No.	Overall Dimensions			Panel Size						Center	
		A	B	C	D	E	F	G	H	J	S	Z
PJ664R	**PJ664RW**	6.10	6.10	4.18	4.88	4.88	5.26	5.01	5.01	3.52	4.25	4.25
PJ864R	**PJ864RW**	8.00	6.12	4.13	6.75	4.88	5.21	6.89	5.01	3.47	6.25	4.25
PJ1084R	**PJ1084RW**	10.13	8.26	4.13	8.75	6.88	3.68	8.89	7.01	3.47	8.25	6.25
PJ1086R	**PJ1086RW**	10.13	8.26	6.13	8.75	6.88	7.21	8.89	7.01	5.47	8.25	6.25
PJ12106R	**PJ12106RW**	12.13	10.26	6.13	10.75	8.88	7.21	10.89	9.01	5.47	10.25	8.25
PJ14126R	**PJ14126RW**	14.13	12.26	6.13	12.75	10.88	7.21	12.89	11.01	5.47	12.25	10.25
PJ16148R	**PJ16148RW**	16.27	14.40	8.13	14.75	12.88	9.21	14.89	13.01	7.47	14.25	12.25
PJ18168R	**PJ18168RW**	18.40	16.40	8.13	16.88	14.88	9.21	16.97	14.97	7.47	16.25	14.25
PJ20168R	**PJ20168RW**	20.00	16.00	8.13	18.44	14.44	9.21	18.54	14.54	7.47	17.81	13.81

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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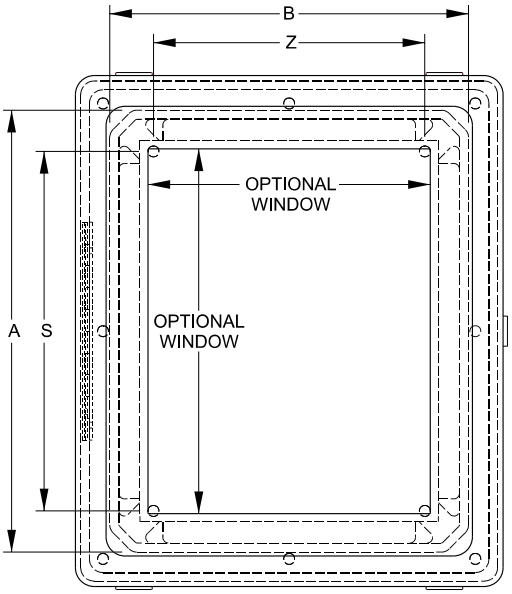
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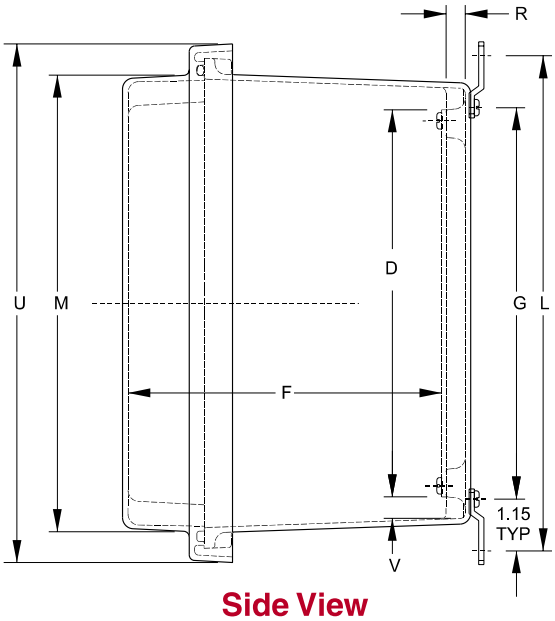
Data Subject to change without notice

Polyester Modular Enclosures - NEMA 4X

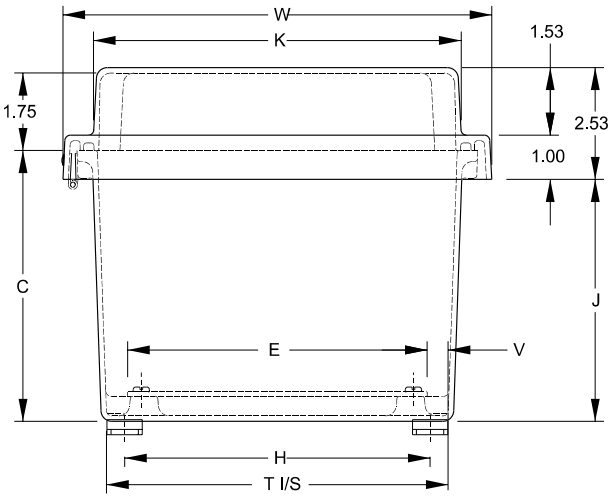
PJ Series - Raised Lid Lift-Off, Hinged Cover, Solid and Window Door



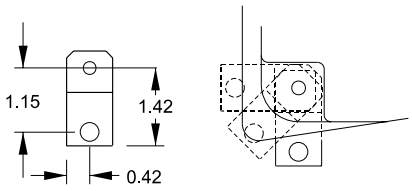
Front View



Side View



End View



Optional Mounting Feet Locations

Thermal Index

130°C to -40°C (266°F to -40°F)

Impact Index

6.78J (5 ft/lb)

Raised Hinged Solid Cover Part No.	Raised Window Hinged Cover Part No.	Cover Dimensions L	T	K	M	U	W	R	V	Optional Panel Part No.	Optional Window Dim. HxW	Shipping Weight (lbs)
PJ664RH	**PJ664RHW**	7.32	5.83	6.08	6.08	7.69	7.69	0.44	0.49	**14R0505**	4.25x4.25	4
PJ864RH	**PJ864RHW**	9.19	5.85	6.11	7.98	9.59	7.71	0.44	0.50	**14R0705**	4.25x6.25	4
PJ1084RH	**PJ1084RHW**	11.19	7.85	8.44	10.32	11.77	9.90	0.44	0.50	**14R0907**	8.37x6.5	6
PJ1086RH	**PJ1086RHW**	11.19	7.85	8.44	10.32	11.77	9.90	0.44	0.50	**14R0907**	8.37x6.5	6
PJ12106RH	**PJ12106RHW**	13.19	9.85	10.45	12.32	13.77	11.90	0.44	0.50	**14R1109**	10.37x8.5	8
PJ14126RH	**PJ14126RHW**	15.19	11.85	12.45	14.32	15.73	13.85	0.44	0.50	**14R1311**	12.37x10.5	11
PJ16148RH	**PJ16148RHW**	17.19	13.71	13.86	15.73	17.87	15.99	0.44	0.50	**14R1513**	13.00x11.00	12
PJ18168RH	**PJ18168RHW**	19.28	15.72	15.86	17.86	20.00	18.00	0.44	0.50	**P1868**	14.00x12.00	17
PJ20168RH	**PJ20168RHW**	20.84	15.31	15.43	19.43	21.59	17.59	0.44	0.52	**P2068**	15.00x11.00	19

For aluminum and fiberglass panels...*see page* **129**.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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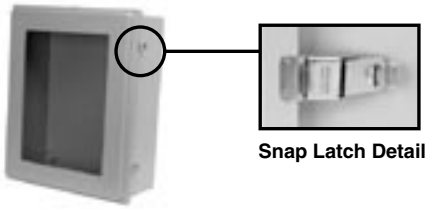
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Polyester Modular Enclosures - NEMA 4X

PJ Series - Raised Lid Snap Latch Hinged Cover, Solid and Window Door





Snap Latch Detail

Window Door

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12, & 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18"x16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Stainless steel draw type "snap latch" door fasteners.
- Door fasteners include a provision for padlocking.
- Enclosures are available with bonded polycarbonate viewing windows.
- Door is supported with a continuous stainless steel hinge.
- Captive oil resistant gasket provides a positive seal.
- Threaded brass inserts are provided for mounting feet to the rear of the enclosure.
- Stainless steel mounting brackets and hardware are provided for mounting to the rear of the enclosure.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or fiberglass.

Accessories

- Painted steel inner panels ...see page 129
- PJ/ PJU swing panel ...see page 129
- Unfinished aluminum inner panels ...see page 129
- Fiberglass inner panels ...see page 129
- Terminal kit assemblies ...see page 436

Solid Cover Part No.	Window Cover Part No.	Overall Dimensions A	B	C	Panel Size D	E	G	H	J	Center S	Z
PJ664RL	**PJ664RLW**	6.10	6.10	4.18	4.88	4.88	5.01	5.01	3.52	4.25	4.25
PJ864RL	**PJ864RLW**	8.00	6.12	4.13	6.75	4.88	6.89	5.01	3.47	6.25	4.25
PJ1084RL	**PJ1084RLW**	10.13	8.26	4.13	8.75	6.88	8.89	7.01	3.47	8.25	6.25
PJ1086RL	**PJ1086RLW**	10.13	8.26	6.13	8.75	6.88	8.89	7.01	5.47	8.25	6.25
PJ12106RL	**PJ12106RLW**	12.13	10.26	6.13	10.75	8.88	10.89	9.01	5.47	10.25	8.25
PJ14126RL	**PJ14126RLW**	14.13	12.26	6.13	12.75	10.88	12.89	11.01	5.47	12.25	10.25
PJ16148RL	**PJ16148RLW**	16.27	14.40	8.13	14.75	12.88	14.89	13.01	7.47	14.25	12.25
PJ18168RL	**PJ18168RLW**	18.40	16.40	8.13	16.88	14.88	16.97	14.97	7.47	16.25	14.25
PJ20168RL	**PJ20168RLW**	20.00	16.00	8.13	18.44	14.44	18.54	14.54	7.47	17.81	13.81
PJ24208RL	**PJ24208RLW**	24.00	20.00	8.13	21.00	17.00	22.75	18.75	7.47	19.25	15.25
PJ24248RL[1]	**PJ24248RLW[1]**	24.00	24.00	8.13	21.00	21.00	22.75	22.75	7.47	19.25	19.25
PJ30248RL[1]	**PJ30248RLW[1]**	30.00	24.00	8.13	27.00	21.00	28.75	22.75	7.47	25.25	19.25
PJ242010RL[1]	**PJ242010RLW[1]**	24.00	20.00	10.13	21.00	17.00	22.75	18.75	9.47	19.25	15.25
PJ242410RL[1]	**PJ242410RLW[1]**	24.00	24.00	10.13	21.00	21.00	22.75	22.75	9.47	19.25	19.25
PJ302410RL[1]	**PJ302410RLW[1]**	30.00	24.00	10.13	27.00	21.00	28.75	22.75	9.47	25.25	19.25

[1] Uses larger mounting foot. See drawing above.

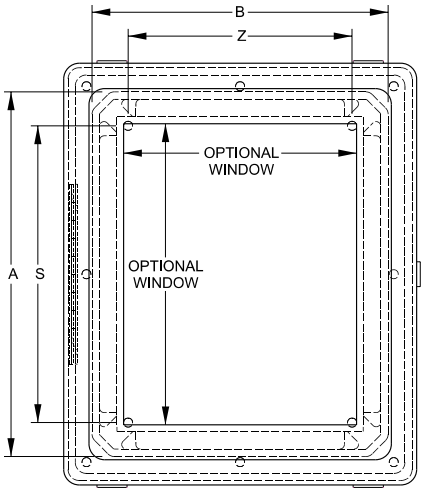
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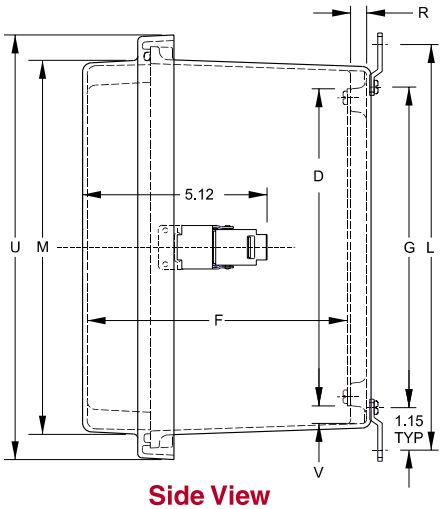
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Polyester Modular Enclosures - NEMA 4X

PJ Series - Raised Lid Snap Latch Hinged Cover, Solid and Window Door

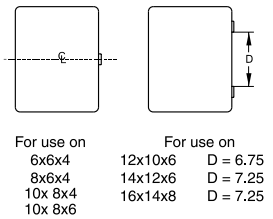


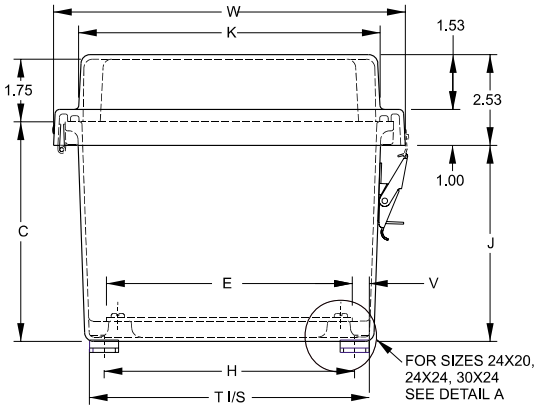
Front View



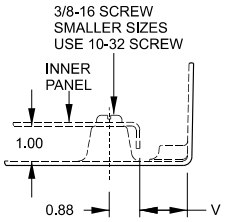
Side View

Latch Locations





End View



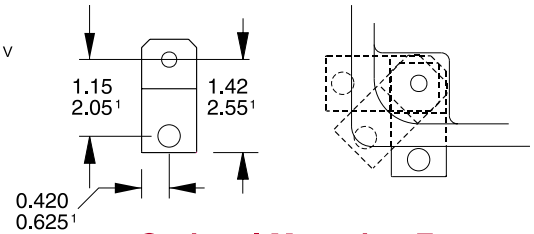
Detail A

Thermal Index

130°C to -40°C (266°F to -40°F)

Impact Index

6.78J (5 ft/lb)



Optional Mounting Feet Locations

Solid Cover Part No.	Window Cover Part No.	Cover Dimensions L	T	K	M	U	W	R	V	Optional Panel Part No.	Optional Window Dim. HxW
PJ664RL	**PJ664RLW**	7.32	5.83	6.08	6.08	7.69	7.69	0.44	0.49	**14R0505**	4.25x4.25
PJ864RL	**PJ864RLW**	9.19	5.85	6.11	7.98	9.59	7.71	0.44	0.50	**14R0705**	6.25x4.25
PJ1084RL	**PJ1084RLW**	11.19	7.85	8.44	10.32	11.77	9.90	0.44	0.50	**14R0907**	8.37x6.5
PJ1086RL	**PJ1086RLW**	11.19	7.85	8.44	10.32	11.77	9.	0.44	0.50	**14R0907**	8.37x6.5
PJ12106RL	**PJ12106RLW**	13.19	9.85	10.45	12.32	13.77	11.90	0.44	0.50	**14R1109**	10.37x8.5
PJ14126RL	**PJ14126RLW**	15.19	11.85	12.45	14.32	15.73	13.85	0.44	0.50	**14R1311**	12.37x10.5
PJ16148RL	**PJ16148RLW**	17.19	13.71	13.86	15.73	17.87	15.99	0.44	0.50	**14R1513**	13.00x11.00
PJ18168RL	**PJ18168RLW**	19.28	15.72	15.86	17.86	20.00	18.00	0.44	0.50	**P1868**	14.00x12.00
PJ20168RL	**PJ20168RLW**	20.84	15.31	15.43	19.43	21.59	17.59	0.44	0.52	**P2068**	15.00x11.00
PJ24208RL	**PJ24208RLW**	25.06	19.73	20.16	24.16	25.59	21.59	1.00	1.38	**18P2117**	16.00x12.00
PJ24248RL[1]	**PJ24248RLW[1]**	25.06	23.73	24.16	24.16	25.59	25.59	1.00	1.38	**18P2121**	16.00x16.00
PJ30248RL[1]	**PJ30248RLW[1]**	31.06	23.73	24.16	30.16	31.59	25.59	1.00	1.38	**18P2721**	23.00x17.00
PJ242010RL[1]	**PJ242010RLW[1]**	25.06	19.70	20.16	24.16	25.59	21.59	1.00	1.36	**18P2117**	16.00x12.00
PJ242410RL[1]	**PJ242410RLW[1]**	25.06	23.70	24.16	24.16	25.59	25.59	1.00	1.36	**18P2121**	16.00x16.00
PJ302410RL[1]	**PJ302410RLW[1]**	31.06	23.70	24.16	30.16	31.59	25.59	1.00	1.36	**18P2721**	23.00x17.00

[1] Uses larger mounting foot. See drawing above.

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Polyester Modular Enclosures - NEMA 4X

PJ Series - Raised Lid Twist Latch Hinged Cover, Solid and Window Door





Window Door



Twist Latch Detail

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12, & 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Stainless steel draw type "twist latch" door fasteners.
- Door fasteners include a provision for padlocking.
- Enclosures are available with bonded polycarbonate viewing windows.
- Door is supported with a continuous stainless steel hinge.
- Captive oil resistant gasket provides a positive seal.
- Threaded brass inserts are provided for mounting feet to the rear of the enclosure.
- Stainless steel mounting brackets and hardware are provided for mounting to the rear of the enclosure.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or fiberglass.

Accessories

- Painted steel inner panels ...see page 129
- PJ/ PJU swing panel ...see page 129
- Unfinished aluminum inner panels ...see page 129
- Fiberglass inner panels ...see page 129
- Terminal kit assemblies ...see page 436

Solid Cover Part No.	Window Cover Part No.	Overall Dimensions A	B	C	Panel Size D	E	F	G	H	J	Center S	Z
PJ664RT	**PJ664RTW**	6.10	6.10	4.18	4.88	4.88	5.26	5.01	5.01	3.52	4.25	4.25
PJ864RT	**PJ864RTW**	8.00	6.12	4.13	6.75	4.88	5.21	6.89	5.01	3.47	6.25	4.25
PJ1084RT	**PJ1084RTW**	10.13	8.26	4.13	8.75	6.88	5.21	8.89	7.01	3.47	8.25	6.25
PJ1086RT	**PJ1086RTW**	10.13	8.26	6.13	8.75	6.88	7.21	8.89	7.01	5.47	8.25	6.25
PJ12106RT	**PJ12106RTW**	12.13	10.26	6.13	10.75	8.88	7.21	10.89	9.01	5.47	10.25	8.25
PJ14126RT	**PJ14126RTW**	14.13	12.26	6.13	12.75	10.88	7.21	12.89	11.01	5.47	12.25	10.25
PJ16148RT	**PJ16148RTW**	16.27	14.40	8.13	14.75	12.88	9.21	14.89	13.01	7.47	14.25	12.25
PJ18168RT	**PJ18168RTW**	18.40	16.40	8.13	16.88	14.88	9.21	16.97	14.97	7.47	16.25	14.25
PJ20168RT	**PJ20168RTW**	20.00	16.00	8.13	18.44	14.44	9.21	18.54	14.54	7.47	17.81	13.81
PJ24208RT[1]	**PJ24208RTW[1]**	24.00	20.00	8.13	21.00	17.00	8.65	22.75	18.75	7.47	19.25	15.25
PJ24248RT[1]	**PJ24248RTW[1]**	24.00	24.00	8.13	21.00	21.00	8.65	22.75	22.75	7.47	19.25	19.25
PJ30248RT[1]	**PJ30248RTW[1]**	30.00	24.00	8.13	27.00	21.00	8.65	28.75	22.75	7.47	25.25	19.25
PJ242010RT[1]	**PJ242010RTW[1]**	24.00	20.00	10.13	21.00	17.00	10.65	22.75	18.75	9.47	19.25	15.25
PJ242410RT[1]	**PJ242410RTW[1]**	24.00	24.00	10.13	21.00	21.00	10.65	22.75	22.75	9.47	19.25	19.25
PJ302410RT[1]	**PJ302410RTW[1]**	30.00	24.00	10.13	27.00	21.00	10.65	28.75	22.75	9.47	25.25	19.25

[1] Uses larger mounting foot. See drawing above.

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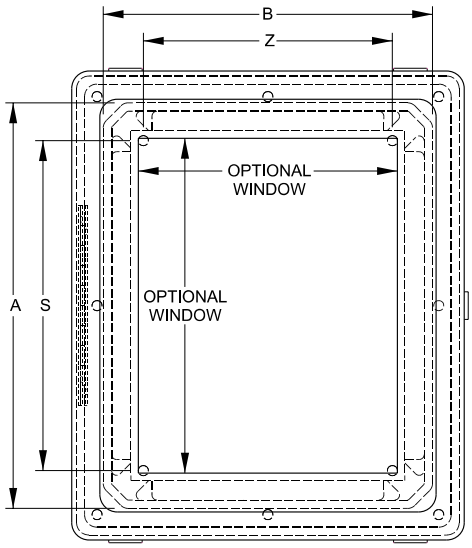
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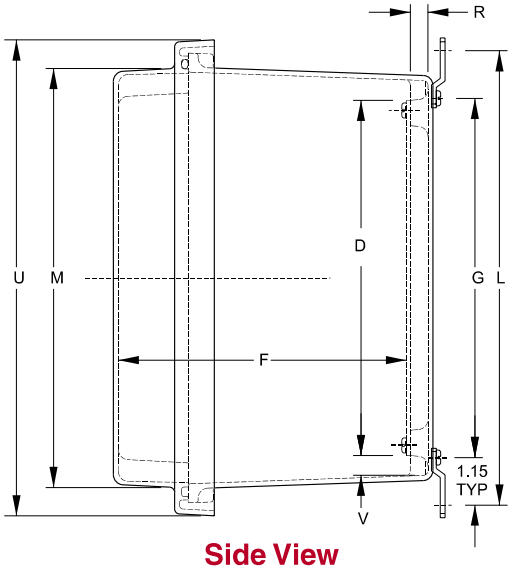
Data Subject to change without notice

Polyester Modular Enclosures - NEMA 4X

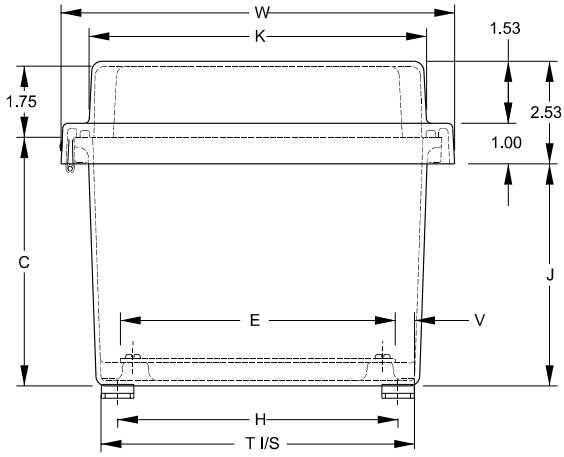
PJ Series - Raised Lid Twist Latch Hinged Cover, Solid and Window Door



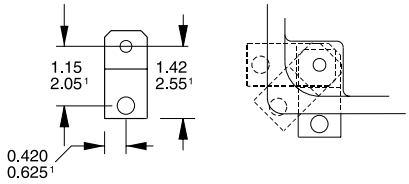
Front View



Side View



End View



Optional Mounting Feet Locations

Thermal Index

130°C to -40°C (266°F to -40°F)

Impact Index

6.78J (5 ft/lb)

Solid Cover Part No.	Window Cover Part No.	Cover Dimensions L	T	K	M	U	W	R	V	Optional Panel Part No.	Optional Window Dim. HxW
PJ664RT	**PJ664RTW**	7.32	5.83	6.08	6.08	7.69	7.69	0.44	0.49	**14R0505**	4.25x4.25
PJ864RT	**PJ864RTW**	9.19	5.85	6.11	7.98	9.59	7.71	0.44	0.50	**14R0705**	6.25x4.25
PJ1084RT	**PJ1084RTW**	11.19	7.85	8.44	10.32	11.77	9.90	0.44	0.50	**14R0907**	8.37x6.5
PJ1086RT	**PJ1086RTW**	11.19	7.85	8.44	10.32	11.77	9.90	0.44	0.50	**14R0907**	8.37x6.5
PJ12106RT	**PJ12106RTW**	13.19	9.85	10.45	12.32	13.77	11.90	0.44	0.50	**14R1109**	10.37x8.5
PJ14126RT	**PJ14126RTW**	15.19	11.85	12.45	14.32	15.73	13.85	0.44	0.50	**14R1311**	12.37x10.5
PJ16148RT	**PJ16148RTW**	17.19	13.71	13.86	15.73	17.87	15.99	0.44	0.50	**14R1513**	13.00x11.00
PJ18168RT	**PJ18168RTW**	19.28	15.72	15.86	17.86	20.00	18.00	0.44	0.50	**P1868**	14.00x12.00
PJ20168RT	**PJ20168RTW**	20.84	15.31	15.43	19.43	21.59	17.59	0.44	0.52	**P2068**	15.00x11.00
PJ24208RT	**PJ24208RTW**	25.06	19.73	20.16	24.16	25.59	21.59	1.00	1.38	**18P2117**	16.00x12.00
PJ24248RT[1]	**PJ24248RTW[1]**	25.06	23.73	24.16	24.16	25.59	25.59	1.00	1.38	**18P2121**	16.00x16.00
PJ30248RT[1]	**PJ30248RTW[1]**	31.06	23.73	24.16	30.16	31.59	25.59	1.00	1.38	**18P2721**	23.00x17.00
PJ242010RT[1]	**PJ242010RTW[1]**	25.06	19.70	20.16	24.16	25.59	21.59	1.00	1.36	**18P2117**	16.00x12.00
PJ242410RT[1]	**PJ242410RTW[1]**	25.06	23.70	24.16	24.16	25.59	25.59	1.00	1.36	**18P2121**	16.00x16.00
PJ302410RT[1]	**PJ302410RTW[1]**	31.06	23.70	24.16	30.16	31.59	25.59	1.00	1.36	**18P2721**	23.00x17.00

[1] Uses larger mounting foot. See drawing above.

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Polyester Modular Enclosures - NEMA 4X

PJU Series - Snap Latch, Hinged Cover, Solid and Window Door





Clear Cover

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18" x 16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Stainless steel draw type "snap latch" door fasteners.
- Door fasteners include a provision for padlocking.
- Enclosure available with clear Polycarbonate cover to 16" x 14".
- Molded hinge with stainless steel pin.
- Captive oil resistant gasket provides a positive seal.
- Available with Polycarbonate flange or foot mount brackets for multi-directional mounting.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels ...see page 129
- PJ/ PJU swing panel ...see page 129
- Unfinished aluminum inner panels ...see page 129
- Fiberglass inner panels ...see page 129
- Terminal kit assemblies ...see page 436

Hinged Snap Latch Flange Part No.	Hinged Snap Latch Feet Part No.	Overall Dimensions			Panel Size			Panel Centers		Flange Mounting Centers		
		A	B	C	D	E	F	S	Z	L	K	M
PJU664LF	**PJU664L**	6.05	6.27	4.13	4.88	4.88	4.11	4.25	4.25	6.88 / 6.75	4.05	7.62
PJU864LF	**PJU864L**	8.05	6.27	4.13	6.75	4.88	4.11	6.25	4.25	8.88 / 8.75	4.00	9.62
PJU1084LF	**PJU1084L**	10.05	8.27	4.13	8.75	6.88	4.11	10.25	6.25	10.75	6.00	11.50
PJU12106LF	**PJU12106L**	12.05	10.27	6.13	10.75	8.88	6.11	10.25	8.25	12.75	8.00	13.50
PJU14126LF	**PJU14126L**	14.05	12.27	6.13	12.75	10.88	6.11	12.25	10.25	14.75 / 14.62	10.00	15.37
PJU16148LF	**PJU16148L**	16.05	14.27	8.13	14.75	12.88	8.11	14.25	12.25	16.75	12.00	17.50
PJU181610LF	**PJU181610L**	18.30	16.52	10.13	16.88	14.88	10.11	16.25	14.25	18.88 / 18.76	12.00	20.12
PJU201610LF	**PJU201610L**	20.50	16.27	10.13	18.44	14.44	10.11	17.81	13.81	21.25	10.00	21.50

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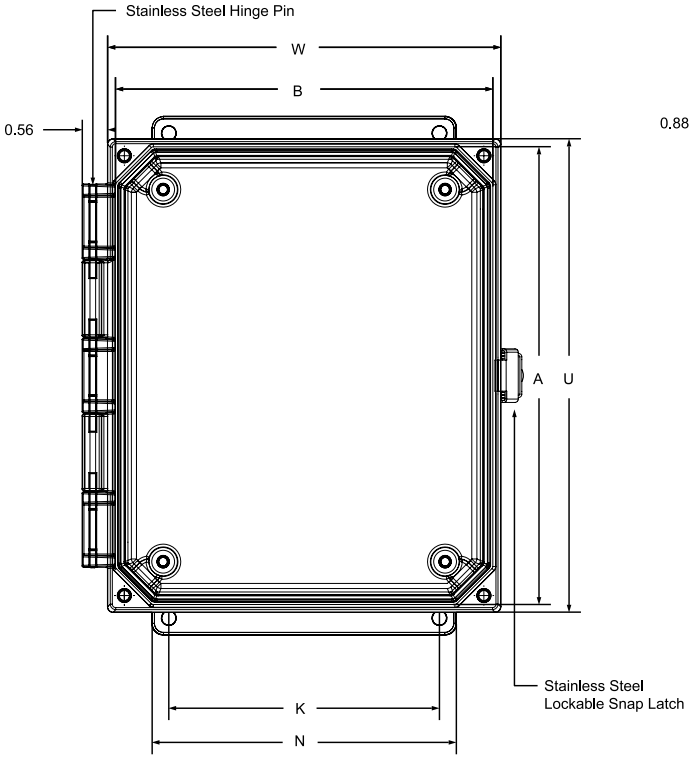
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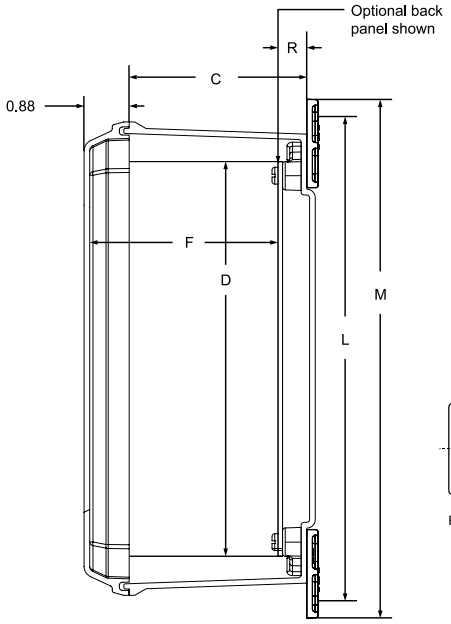
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Polyester Modular Enclosures - NEMA 4X

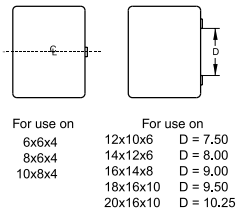
PJU Series - Snap Latch, Hinged Cover, Solid and Window Door



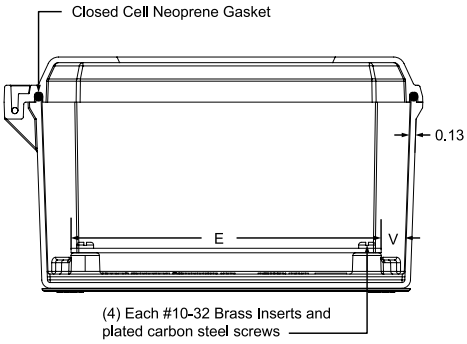
Front View



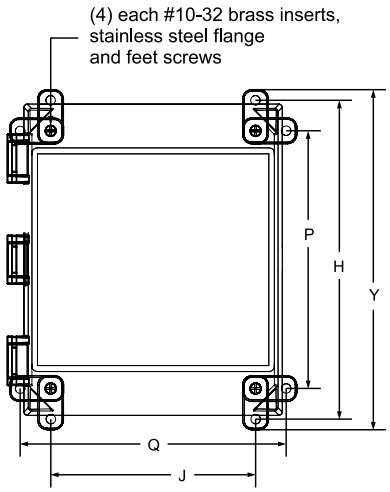
Side View



Latch Locations



End View



Rear View

Hinged Snap Latch Clear Cover Flange Part No.	Hinged Snap Latch Clear Cover Feet Part No.	N	H	J	P	Q	U	W	Y	R	V	Optional Panel Part No.	Shipping Weight (lbs)
PJU664CCLF	**PJU664CCL**	4.80	6.75	4.91	4.69	6.97	6.50	6.72	7.47	0.70	0.52	**14R0505**	4
PJU864CCLF	**PJU864CCL**	4.75	8.75	4.91	6.69	6.97	8.50	6.72	9.46	0.70	0.62	**14R0705**	4
PJU1084CCLF	**PJU1084CCL**	6.75	10.75	6.91	8.69	8.97	10.50	8.72	11.47	0.70	0.53	**14R0907**	6
PJU12106CCLF	**PJU12106CCL**	8.75	12.70	8.82	10.64	10.88	12.50	10.72	13.47	0.68	0.44	**14R0907**	6
PJU14126CCLF	**PJU14126CCL**	10.75	14.70	10.82	12.64	12.88	14.50	12.72	15.37	0.70	0.46	**14R1109**	8
PJU16148CCLF	**PJU16148CCL**	12.75	16.91	11.47	13.50	14.88	16.50	14.72	17.50	0.70	0.40	**14R1311**	11
N/A	**N/A**	12.75	19.16	13.72	15.75	17.13	18.75	16.97	19.89	0.70	0.45	**14R1513**	12
N/A	**N/A**	12.75	20.53	13.16	17.13	16.56	20.50	16.72	21.28	0.70	0.50	**P1868**	17

For aluminum and fiberglass panels...*see page* **130**.

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Polyester Modular Enclosures - NEMA 4X

PJU Series - Twist Latch, Hinged Cover, Solid and Window Door





Clear Cover

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
    IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18" x 16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Stainless steel butterfly type "twist latch" door fasteners.
- Door fasteners include a provision for padlocking.
- Enclosure available with clear Polycarbonate cover to 16" x 14".
- Molded hinge with stainless steel pin.
- Captive oil resistant gasket provides a positive seal.
- Available with Polycarbonate flange or foot mount brackets for multi-directional mounting.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels
  ...see page ***129***
- PJ/ PJU swing panel*...see page* ***129***
- Unfinished aluminum inner panels*...see page* ***129***
- Fiberglass inner panels
  ...see page ***129***
- Terminal kit assemblies
  ...see page ***436***

Hinged Twist Latch Flange Part No.	Hinged Twist Latch Feet Part No.	Overall Dimensions A	B	C	Panel Size D	E	F	Panel Centers S	Z	Flange Mounting Centers L	K	M
PJU664TF	**PJU664T**	6.05	6.27	4.13	4.88	4.88	4.11	4.25	4.25	6.88 / 6.75	4.05	7.62
PJU864TF	**PJU864T**	8.05	6.27	4.13	6.75	4.88	4.11	6.25	4.25	8.88 / 8.75	4.00	9.62
PJU1084TF	**PJU1084T**	10.05	8.27	4.13	8.75	6.88	4.11	10.25	6.25	10.75	6.00	11.50
PJU12106TF	**PJU12106T**	12.05	10.27	6.13	10.75	8.88	6.11	10.25	8.25	12.75	8.00	13.50
PJU14126TF	**PJU14126T**	14.05	12.27	6.13	12.75	10.88	6.11	12.25	10.25	14.75 / 14.62	10.00	15.37
PJU16148TF	**PJU16148T**	16.05	14.27	8.13	14.75	12.88	8.11	14.25	12.25	16.75	12.00	17.50
PJU181610TF	**PJU181610T**	18.30	16.52	10.13	16.88	14.88	10.11	16.25	14.25	18.88 / 18.76	12.00	20.12
PJU201610TF	**PJU201610T**	20.50	16.27	10.13	18.44	14.44	10.11	17.81	13.81	21.25	10.00	21.50

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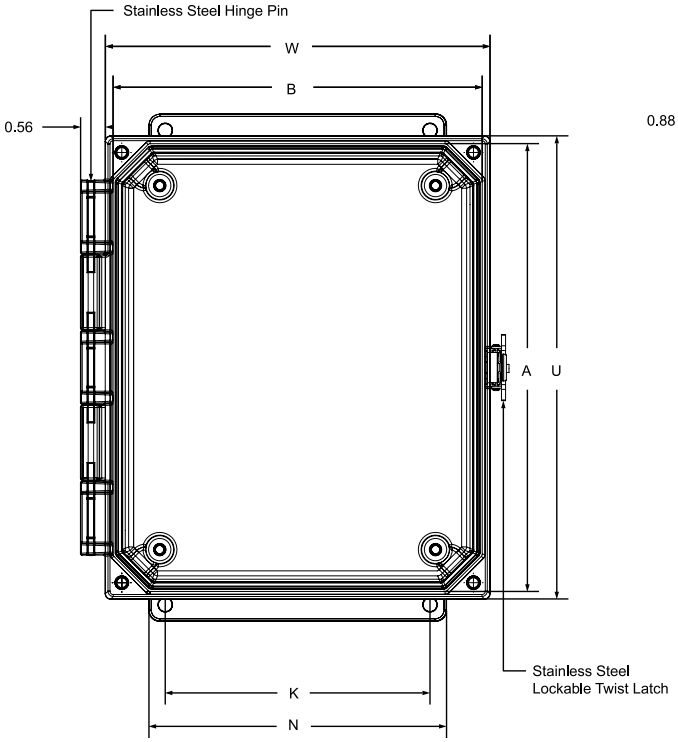
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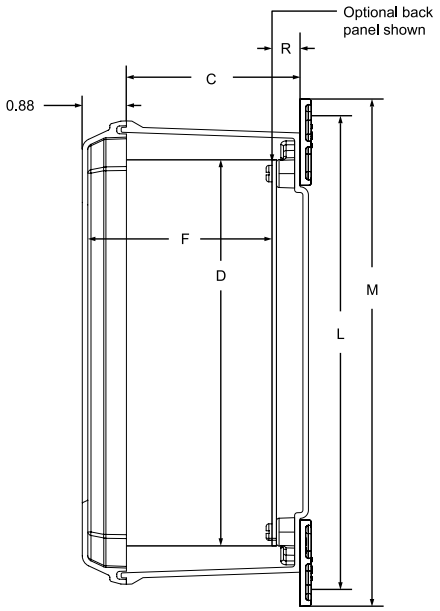
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Polyester Modular Enclosures - NEMA 4X

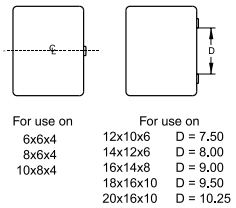
PJU Series - Twist Latch, Hinged Cover, Solid and Window Door



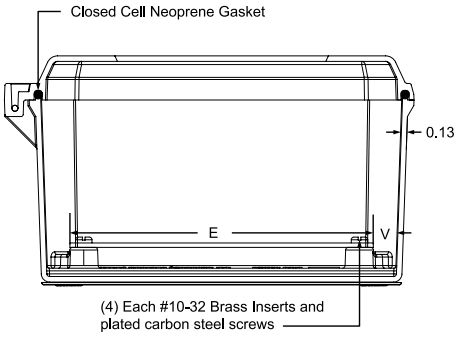
Front View



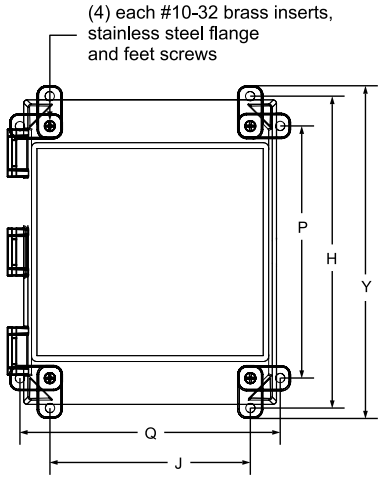
Side View



Latch Locations



End View



Rear View

Hinged Twist Latch Clear Cover Flange Part No.	Hinged Twist Latch Clear Cover Feet Part No.	N	H	J	P	Q	U	W	Y	R	V	Optional Panel Part No.	Shipping Weight (lbs)
PJU664CCTF	**PJU664CCT**	4.80	6.75	4.91	4.69	6.97	6.50	6.72	7.47	0.70	0.52	**14R0505**	4
PJU864CCTF	**PJU864CCT**	4.75	8.75	4.91	6.69	6.97	8.50	6.72	9.46	0.70	0.62	**14R0705**	4
PJU1084CCTF	**PJU1084CCT**	6.75	10.75	6.91	8.69	8.97	10.50	8.72	11.47	0.70	0.53	**14R0907**	6
PJU12106CCTF	**PJU12106CCT**	8.75	12.70	8.82	10.64	10.88	12.50	10.72	13.47	0.68	0.44	**14R0907**	6
PJU14126CCTF	**PJU14126CCT**	10.75	14.70	10.82	12.64	12.88	14.50	12.72	15.37	0.70	0.46	**14R1109**	8
PJU16148CCTF	**PJU16148CCT**	12.75	16.91	11.47	13.50	14.88	16.50	14.72	17.50	0.70	0.40	**14R1311**	11
N/A	**N/A**	12.75	19.16	13.72	15.75	17.13	18.75	16.97	19.89	0.70	0.45	**14R1513**	12
N/A	**N/A**	12.75	20.53	13.16	17.13	16.56	20.50	16.72	21.28	0.70	0.50	**P1868**	17

For aluminum and fiberglass panels...*see page* **130**.

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Polyester Modular Enclosures - NEMA 4X

PJU Series - Lift-Off, Solid and Window Door





Clear Cover

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18" x 16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Cover fastened with captive stainless steel screws in threaded brass inserts.
- Enclosure available with clear Polycarbonate cover to 16" x 14".
- Captive oil resistant gasket provides a positive seal.
- Available with Polycarbonate flange or foot mount brackets for multi-directional mounting.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels *...see page* ***129***
- PJ/ PJU swing panel*...see page* ***129***
- Unfinished aluminum inner panels*...see page* ***129***
- Fiberglass inner panels *...see page* ***129***
- Terminal kit assemblies *...see page* ***436***

Lift-Off Cover Flange Part No.	Lift-Off Cover Feet Part No.	Overall Dimensions			Panel Size			Panel Centers		Flange Mounting Centers		
		A	B	C	D	E	F	S	Z	L	K	M
PJU664F	**PJU664**	6.05	6.27	4.13	4.88	4.88	4.11	4.25	4.25	6.88 / 6.75	4.05	7.62
PJU864F	**PJU864**	8.05	6.27	4.13	6.75	4.88	4.11	6.25	4.25	8.88 / 8.75	4.00	9.62
PJU1084F	**PJU1084**	10.05	8.27	4.13	8.75	6.88	4.11	10.25	6.25	10.75	6.00	11.50
PJU12106F	**PJU12106**	12.05	10.27	6.13	10.75	8.88	6.11	10.25	8.25	12.75	8.00	13.50
PJU14126F	**PJU14126**	14.05	12.27	6.13	12.75	10.88	6.11	12.25	10.25	14.75 / 14.62	10.00	15.37
PJU16148F	**PJU16148**	16.05	14.27	8.13	14.75	12.88	8.11	14.25	12.25	16.75	12.00	17.50
PJU181610F	**PJU181610**	18.30	16.52	10.13	16.88	14.88	10.11	16.25	14.25	18.88 / 18.76	12.00	20.12
PJU201610F	**PJU201610**	20.50	16.27	10.13	18.44	14.44	10.11	17.81	13.81	21.25	10.00	21.50

Technical references and DXF downloads available at www.hammfg.com

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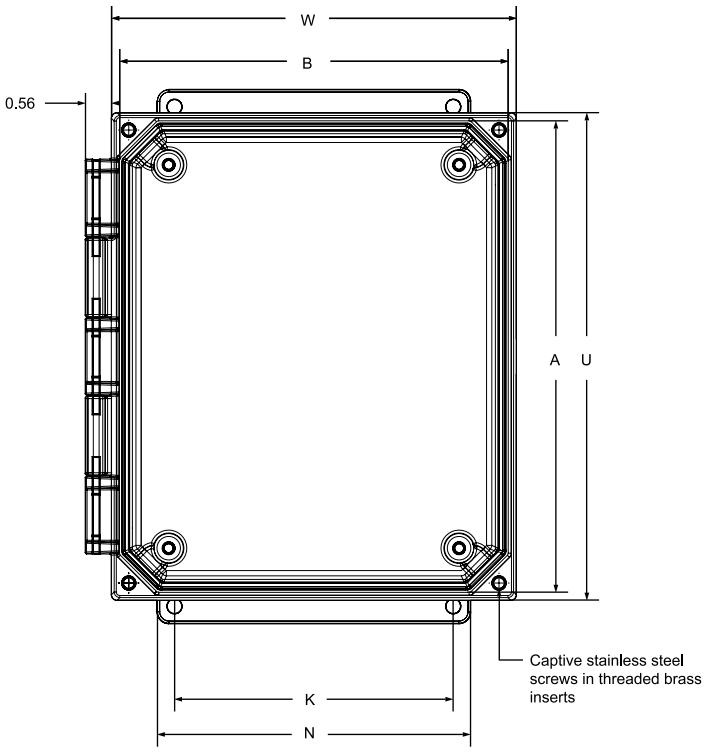
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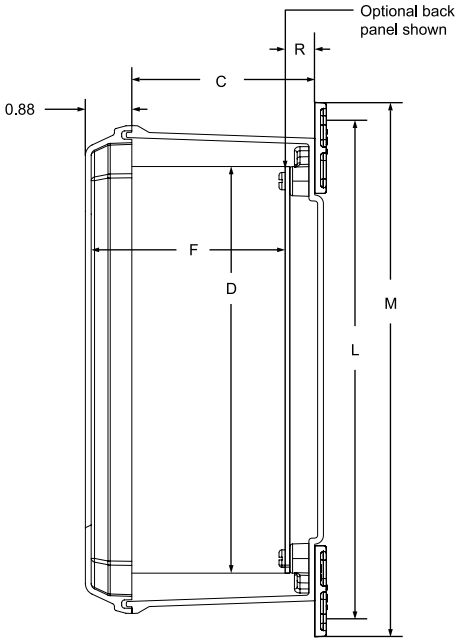
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Polyester Modular Enclosures - NEMA 4X

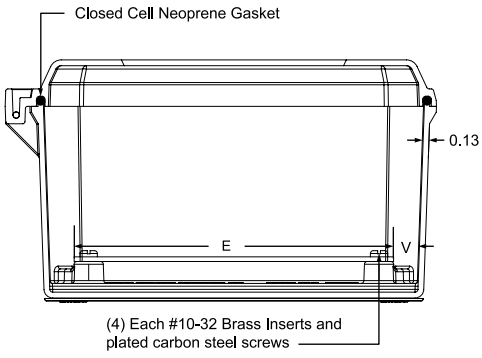
PJU Series - Lift-Off, Solid and Window Door



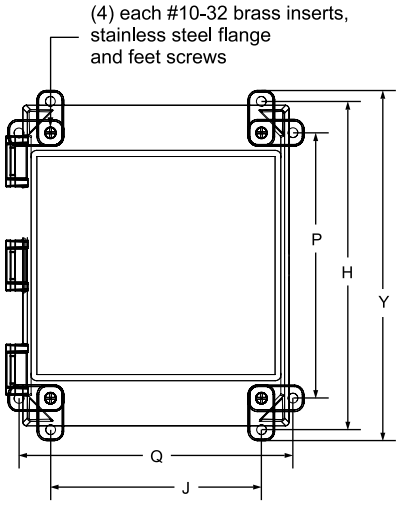
Front View



Side View



End View



Rear View

Lift-Off Clear Cover Flange Part No.	Lift-Off Clear Cover Feet Part No.	N	H	J	P	Q	U	W	Y	R	V	Optional Panel Part No.	Shipping Weight (lbs)
PJU664CCF	**PJU664CC**	4.80	6.75	4.91	4.69	6.97	6.50	6.72	7.47	0.70	0.52	**14R0505**	4
PJU864CCF	**PJU864CC**	4.75	8.75	4.91	6.69	6.97	8.50	6.72	9.46	0.70	0.62	**14R0705**	4
PJU1084CCF	**PJU1084CC**	6.75	10.75	6.91	8.69	8.97	10.50	8.72	11.47	0.70	0.53	**14R0907**	6
PJU12106CCF	**PJU12106CC**	8.75	12.70	8.82	10.64	10.88	12.50	10.72	13.47	0.68	0.44	**14R0907**	6
PJU14126CCF	**PJU14126CC**	10.75	14.70	10.82	12.64	12.88	14.50	12.72	15.37	0.70	0.46	**14R1109**	8
PJU16148CCF	**PJU16148CC**	12.75	16.91	11.47	13.50	14.88	16.50	14.72	17.50	0.70	0.40	**14R1311**	11
N/A	**N/A**	12.75	19.16	13.72	15.75	17.13	18.75	16.97	19.89	0.70	0.45	**14R1513**	12
N/A	**N/A**	12.75	20.53	13.16	17.13	16.56	20.50	16.72	21.28	0.70	0.50	**P1868**	17

For aluminum and fiberglass panels...*see page* **130**.

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Polyester Modular Enclosures - NEMA 4X

PJU Series - Hinged Screw Cover, Solid and Window Door





Clear Cover

Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
- IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Standard JIC sizes under 18" x 16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting. Mounting hardware is included.
- Cover fastened with captive stainless steel screws in threaded brass inserts.
- Enclosure available with clear Polycarbonate cover to 16" x 20".
- Molded hinge with stainless steel pin.
- Captive oil resistant gasket provides a positive seal.
- Available with Polycarbonate flange or foot mount brackets for multi-directional mounting.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels *...see page* ***129***
- PJ/ PJU swing panel*...see page* ***129***
- Unfinished aluminum inner panels*...see page* ***129***
- Fiberglass inner panels *...see page* ***129***
- Terminal kit assemblies *...see page* ***436***

Hinged Screw Cover Flange Part No.	Hinged Screw Cover Feet Part No.	Overall Dimensions A	B	C	Panel Size D	E	F	Panel Centers S	Z	Flange Mounting Centers L	K	M
PJU664HF	**PJU664H**	6.05	6.27	4.13	4.88	4.88	4.11	4.25	4.25	6.88 / 6.75	4.05	7.62
PJU864HF	**PJU864H**	8.05	6.27	4.13	6.75	4.88	4.11	6.25	4.25	8.88 / 8.75	4.00	9.62
PJU1084HF	**PJU1084H**	10.05	8.27	4.13	8.75	6.88	4.11	10.25	6.25	10.75	6.00	11.50
PJU12106HF	**PJU12106H**	12.05	10.27	6.13	10.75	8.88	6.11	10.25	8.25	12.75	8.00	13.50
PJU14126HF	**PJU14126H**	14.05	12.27	6.13	12.75	10.88	6.11	12.25	10.25	14.75 / 14.62	10.00	15.37
PJU16148HF	**PJU16148H**	16.05	14.27	8.13	14.75	12.88	8.11	14.25	12.25	16.75	12.00	17.50
PJU181610HF	**PJU181610H**	18.30	16.52	10.13	16.88	14.88	10.11	16.25	14.25	18.88 / 18.76	12.00	20.12
PJU201610HF	**PJU201610H**	20.50	16.27	10.13	18.44	14.44	10.11	17.81	13.81	21.25	10.00	21.50

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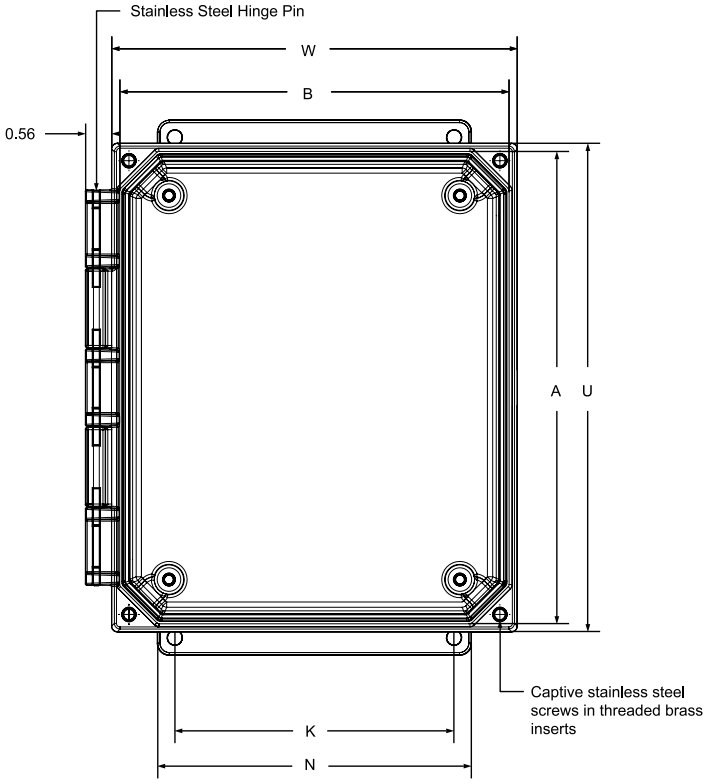
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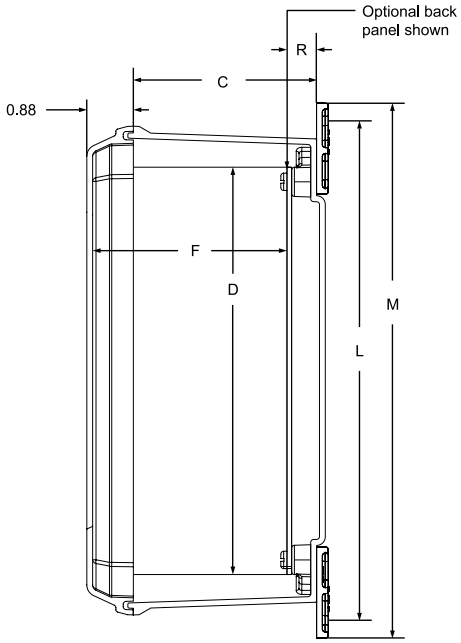
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Polyester Modular Enclosures - NEMA 4X

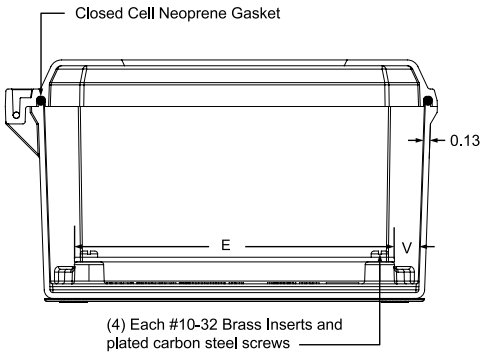
PJU Series - Hinged Screw Cover, Solid and Window Door



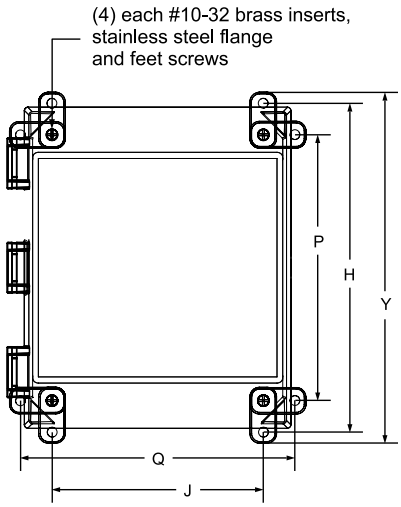
Front View



Side View



End View



Rear View

Hinged Screw Clear Cover Flange Part No.	Hinged Screw Clear Cover Feet Part No.	N	H	J	P	Q	U	W	Y	R	V	Optional Panel Part No.	Shipping Weight (lbs)
PJU664CCHF	**PJU664CCH**	4.80	6.75	4.91	4.69	6.97	6.50	6.72	7.47	0.70	0.52	**14R0505**	4
PJU864CCHF	**PJU864CCH**	4.75	8.75	4.91	6.69	6.97	8.50	6.72	9.46	0.70	0.62	**14R0705**	4
PJU1084CCHF	**PJU1084CCH**	6.75	10.75	6.91	8.69	8.97	10.50	8.72	11.47	0.70	0.53	**14R0907**	6
PJU12106CCHF	**PJU12106CCH**	8.75	12.70	8.82	10.64	10.88	12.50	10.72	13.47	0.68	0.44	**14R0907**	6
PJU14126CCHF	**PJU14126CCH**	10.75	14.70	10.82	12.64	12.88	14.50	12.72	15.37	0.70	0.46	**14R1109**	8
PJU16148CCHF	**PJU16148CCH**	12.75	16.91	11.47	13.50	14.88	16.50	14.72	17.50	0.70	0.40	**14R1311**	11
N/A	**N/A**	12.75	19.16	13.72	15.75	17.13	18.75	16.97	19.89	0.70	0.45	**14R1513**	12
N/A	**N/A**	12.75	20.53	13.16	17.13	16.56	20.50	16.72	21.28	0.70	0.50	**P1868**	17

For aluminum and fiberglass panels...*see page* **130**.

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Polyester Modular Enclosures - NEMA 4X

PJU Series - Enclosure with Viewing

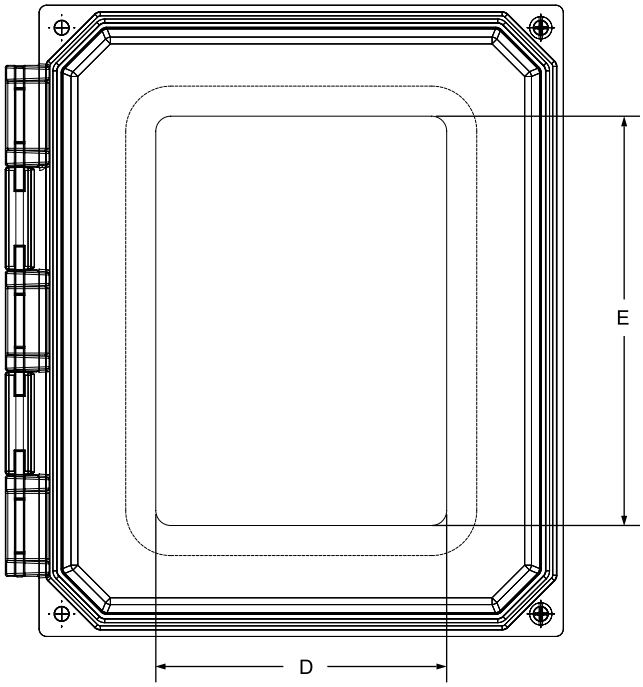
Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Panel Sold Separately

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- Complies with
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
  - IEC 60529, IP66



Part No.	Overall Dimensions Height	Width	Depth	Viewing Window D	E
PJU664*	6.05	6.27	4.13	3.50	3.50
PJU864*	8.05	6.27	4.13	4.00	5.25
PJU1084*	10.05	8.27	4.13	4.25	6.25
PJU12106*	12.05	10.27	6.13	6.50	8.38
PJU14126*	14.05	12.27	6.13	8.50	10.38
PJU16148*	16.05	14.27	8.13	10.50	12.38
PJU181610*	18.30	16.52	10.13	11.00	13.00
PJU201610*	20.50	16.27	10.13	12.00	14.00

* see chart below for full part number & latch including mounting feet

- High UV resistant Polycarbonate Viewing Window
- Factory installed
- Maintains Nema 4X ratings

Lift-Off Viewing Window Flange	Lift-Off Viewing Window Feet	Hinged Screw Cover Viewing Window Flange	Hinged Screw Cover Viewing Window Feet	Hinged Snap Latch Viewing Window Flange	Hinged Snap Latch Viewing Window Feet	Hinged Twist Latch Viewing Window Flange	Hinged Twist Latch Viewing Window Feet
PJU664WF	**PJU664W**	**PJU664HWF**	**PJU664HW**	**PJU664LWF**	**PJU664LW**	**PJU664TWF**	**PJU664TW**
PJU864WF	**PJU864W**	**PJU864HWF**	**PJU864HW**	**PJU864LWF**	**PJU864LW**	**PJU864TWF**	**PJU864TW**
PJU1084WF	**PJU1084W**	**PJU1084HWF**	**PJU1084HW**	**PJU1084LWF**	**PJU1084LW**	**PJU1084TWF**	**PJU1084TW**
PJU12106WF	**PJU12106W**	**PJU12106HWF**	**PJU12106HW**	**PJU12106LWF**	**PJU12106LW**	**PJU12106TWF**	**PJU12106TW**
PJU14126WF	**PJU14126W**	**PJU14126HWF**	**PJU14126HW**	**PJU14126LWF**	**PJU14126LW**	**PJU14126TWF**	**PJU14126TW**
PJU16148WF	**PJU16148W**	**PJU16148HWF**	**PJU16148HW**	**PJU16148LWF**	**PJU16148LW**	**PJU16148TWF**	**PJU16148TW**
PJU181610WF	**PJU181610W**	**PJU181610HWF**	**PJU181610HW**	**PJU181610LWF**	**PJU181610LW**	**PJU181610TWF**	**PJU181610TW**
PJU201610WF	**PJU201610W**	**PJU201610HWF**	**PJU201610HW**	**PJU201610LWF**	**PJU201610LW**	**PJU201610TWF**	**PJU201610TW**

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Polyester Modular Enclosures - NEMA 4X

PJ Accessories

PJ Series Inner Panel

- 14 gauge steel panels are finished in white baked powder coating.
- Aluminum panels are 0.080" (2.03 mm) type 5052 H-32 aluminum, unpainted. A2420 and larger panels are 0.125".
- Fiberglass inner panels are Finished in white
- Hardware to mount inner panel is included with PJ Series Enclosures.

Steel Part No.	Aluminum Part No.	Fiberglass Part No.	Fiberglass Thickness	Panel		For Use With PJ Series	
				Length	Width	A	B
14R0505	**14A0505**	**14F0505**	0.125	4.88	4.88	6.10	6.10
14R0705	**14A0705**	**14F0705**	0.125	6.75	4.88	8.00	6.13
14R0907	**14A0907**	**14F0907**	0.125	8.75	6.88	10.14	8.26
14R1109	**14A1109**	**14F1109**	0.125	10.75	8.88	12.14	10.26
14R1311	**14A1311**	**14F1311**	0.187	12.75	10.88	14.13	12.25
14R1513	**14A1513**	**14F1513**	0.187	14.75	12.88	16.28	14.40
P1868	**A1868**	**F1868**	0.187	16.88	14.88	18.40	16.40
P2068	**A2068**	**F2068**	0.250	18.44	14.44	20.00	16.00
18P2117	**A2420**	**F2420**	0.250	21.00	17.00	24.00	20.00
18P2121	**A2424**	**F2424**	0.250	21.00	21.00	24.00	24.00
18P2721	**A3024**	**F3024**	0.250	27.00	21.00	30.00	24.00

Moulded Polycarbonate Flange For PJU Series (sold in Pairs)



Part No.	PJU Flange Fits
PJFPUWM6	6x6, 8x6
PJFPUWM108	10x8
PJFPUWM1210	12x10
PJFPUWM1412	14x12
PJFPUWM1614	16x14
PJFPUWM1816	18x16
PJFPUWM2016	20x16

Moulded Polycarbonate Feet For PJU Series (sold in sets of 4)



Part No.	PJU Feet Fits
PJW4NUFS	6x6 through 14x12
PJW4NULFS	16x14 through 20x16

Stainless Mounting Feet For PJ Series (sold in sets of 4)



Part No.	304 SS PJ Feet Fits
PJW4NFS	6x6 through 20x16
PJW4NLS	24x20 through 30x24

PJ/PJU Series Swing Panel



Use with PJ Series Raised Lid Enclosures

Part No.	Panel Dimensions Height	Width
PJSP108	9.50	7.50
PJSP1210	11.50	9.50
PJSP1412	13.50	11.50
PJSP1614	15.13	13.00
PJSP1816	17.25	15.38
PJSP2016	18.88	14.94
PJSP2020	23.25	19.38
PJSP2024	23.38	23.25
PJSP3024	29.25	23.38

Use with PJU Series Enclosures

Part No.	Panel Dimensions Height	Width
PJSPU108	9.64	7.87
PJSPU1210	11.64	9.86
PJSPU1412	13.64	11.86
PJSPU1614	15.64	13.86
PJSPU1816	17.90	15.99
PJSPU2016	19.65	15.55

- Hinged aluminum panel.
- Mounts at front of enclosure body.
- Field installed with no drilling required.

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Polyester Enclosures - NEMA 4X

PJW Series - Continuous Hinge Wallmount



Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL/cUL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- **Complies with**
  - NEMA Type 1, 2, 3, 4, 4X,12 and 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- 3/8 collar studs are provided for optional inner panel mounting, hardware included.
- Stainless steel butterfly type "twist latch" door fasteners with padlock provision.
- Captive oil resistant gasket provides a positive seal.
- Integrated mounting flange.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel, unfinished aluminum, or Fiberglass.

Accessories

- Painted steel inner panels *...see page* ***131***
- Terminal kit assemblies *...see page* ***436***
- Viewing windows*...see page* ***138***

Part No.	Dimensions						Mounting Centers				
	A	B	C	D	E	F	G	H	I	J	K
PJW363010L	36.25	30.25	10.13	40.50	30.50	12.00	38.50	24.00	12.00	33.88	27.88
PJW363014L	36.25	30.25	14.13	40.50	30.50	16.00	38.50	24.00	12.00	33.88	27.88
PJW363610L	36.25	36.25	10.13	40.50	36.50	12.00	38.50	30.00	15.00	33.88	33.88
PJW363614L	36.25	36.25	14.13	40.50	36.50	16.00	38.50	30.00	15.00	33.88	33.88
PJW483610L	48.25	36.25	10.13	52.50	36.50	12.00	50.50	30.00	15.00	45.38	33.88
PJW483614L	48.25	36.25	14.13	52.50	36.50	16.00	50.50	30.00	15.00	45.38	33.88
PJW603610L	60.25	36.25	10.13	64.50	36.50	12.00	62.50	30.00	15.00	57.38	33.88
PJW603614L	60.25	36.25	14.13	64.50	36.50	16.00	62.50	30.00	15.00	57.38	33.88

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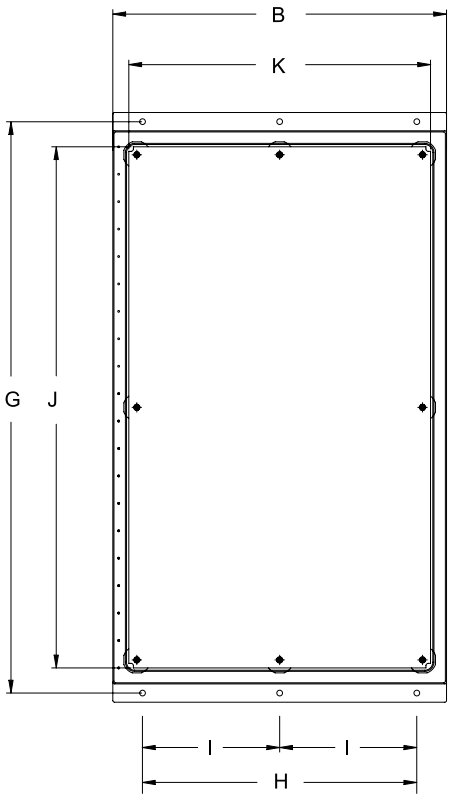
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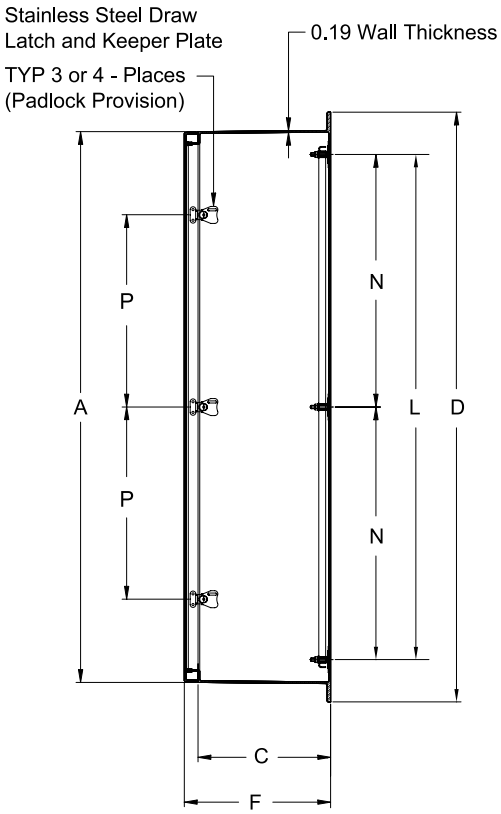
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Polyester Enclosures - NEMA 4X

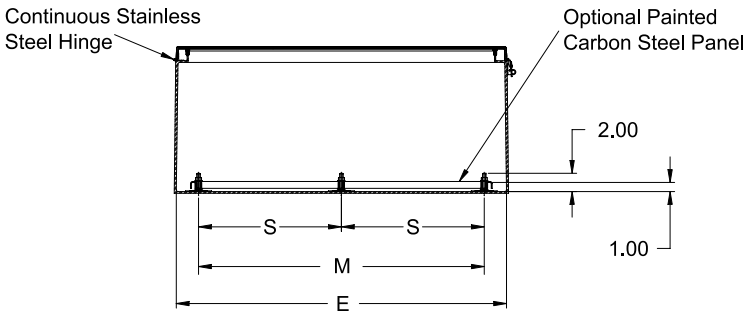
PJW Series - Continuous Hinge Wallmount



Front View



Side View



End View

Part No.	M	N	S	P	# of Latches	# of Panel Mount Studs	Panel Size Height	Panel Size Width	Optional Panel Part No.	Ship Weight (lbs)
PJW363010L	25.25	15.63	12.63	12.13	3	6	33	27	**18P3327**	59
PJW363014L	25.25	15.63	12.63	12.13	3	6	33	27	**18P3327**	64
PJW363610L	31.25	15.63	15.63	12.13	3	8	33	33	**18P3333**	72
PJW363614L	31.25	15.63	15.63	12.13	3	8	33	33	**18P3333**	77
PJW483610L	31.25	21.63	15.63	18.13	3	8	45	33	**18P4533**	83
PJW483614L	31.25	21.63	15.63	18.13	3	8	45	33	**18P4533**	91
PJW603610L	31.25	27.63	15.63	16.00	4	8	57	33	**18P5733**	101
PJW603614L	31.25	27.63	15.63	16.00	4	8	57	33	**18P5733**	122

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Polyester Enclosures - NEMA 4X

PJFS Series - Continuous Hinge Freestanding





Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL/cUL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- **Complies with**
  - NEMA Type 1, 2, 3, 4, 4X,12 and 13
  - IEC 60529, IP66

Construction

- Fiberglass polyester enclosure with matching door is easily punched, cut, or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Collar Studs are provided for optional inner panel.
- Mounting hardware included.
- Heavy duty continuous 304 SS Hinge.
- Flexible self-gripping gasket compresses over flange for tight seal.
- 3-point SS handle with pad lock provision.
- Molded in drip shield
- Fiberglass mounting strut side walls on double door unit.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel.

Accessories

- Viewing windows...*see page* ***138***

Single Door

Part Number	Height	Width	Depth	Ship Wt (lbs)
PJFS722525	72.0	25.0	24.5	215

Double Door

Part Number	Height	Width	Depth	Ship Wt (lbs)
PJFS724925DD	72.0	48.0	24.5	430

Inner Panel - Painted Steel - Qty 1 Required

Part Number	Height	Width	Finish
18P5721	57.0	21.0	White

Inner Panel - Painted Steel - Qty 2 Required

Part Number	Height	Width	Finish
18P5721	57.0	21.0	White

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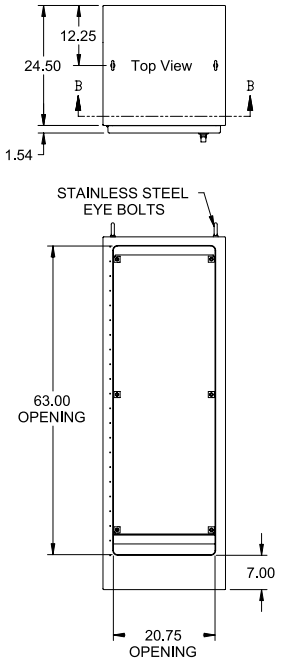
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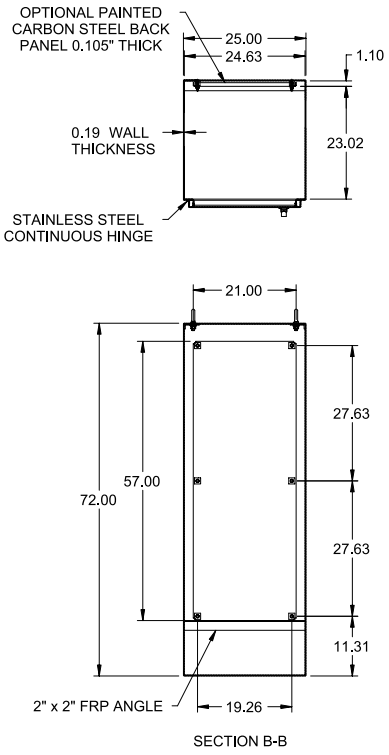
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Polyester Enclosures - NEMA 4X

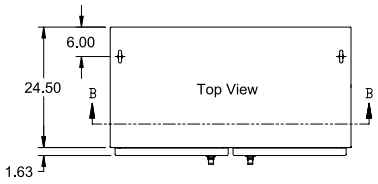
PJFS Series - Continuous Hinge Freestanding

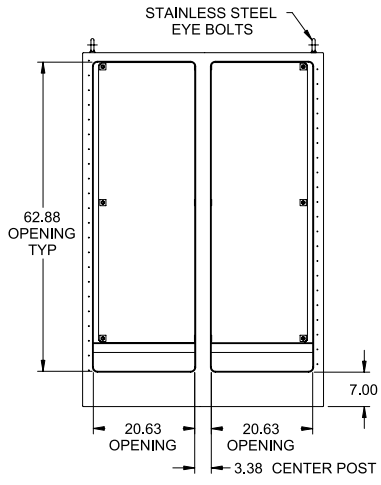


Front View (with Single Door Open)

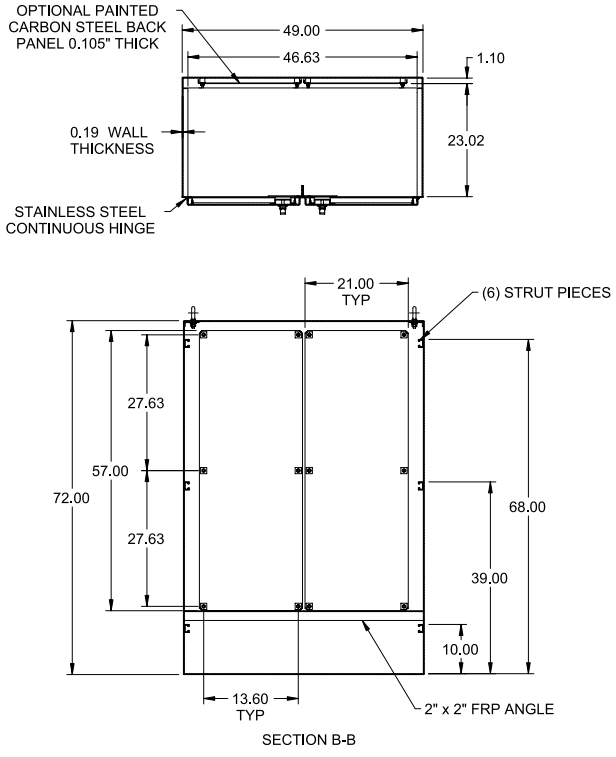


Internal View





Front View (with Double Doors Open)



Internal View

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Polyester Modular Enclosures - NEMA 4X

PW Series - Wallmount Enclosures



Panel Sold Separately

Application

- Designed to house Industrial control, instrumentation, pneumatic, valve and pump control systems.
- Excellent protection against corrosion and ultra violet rays making this a suitable enclosure for outdoor installations.
- High resistance to impact and temperature for industrial installations when subjected to frequent water exposure.

Standards

- UL/cUL 508 Type 1, 2, 3, 4, 4X, 12 & 13
- **Complies with**
  - NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12, 13
  - IEC 60529, IP 66

Construction

- Fiberglass reinforced polyester is self extinguishing and has operating temperatures of -50°C to 150°C (-58°F to 302°F).
- One piece monoblock body.
- Entire enclosure can be reversed to allow door to swing right or left.
- Built-in canopy at top and bottom protects the door and gasket and allows reversibility.
- Self-ventilating openings are located at the rear of the enclosure to permit installation of breather or pressure compensation plugs.
- Internal stainless steel hinges, built into the door with captive pins.
- Door opening of over 180°.
- Quarter turn fasteners are located outside the gasketed area.
- Grid pattern is provided on inside door area for ease of locating equipment.
- Tamperproof "double bar" quarter turn fasteners.
- Dielectric rigidity > 5kV insulating resistance > 5 MW.
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass polyester material is finished in RAL 7032 beige.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum.

Accessories

- Air vents...*see page* ***138***
- Adjustable depth support ...*see page* ***136***
- Literature pocket...*see page* ***451***
- Mounting feet...*see page* ***137***
- Metal double bar enclosure keys ...*see page* ***139***
- Molded double bar enclosure keys ...*see page* ***139***
- Padlock adaptor...*see page* ***137***
- Rail fixing inserts...*see page* ***139***
- Rear blanking cover...*see page* ***137***
- Painted steel inner panels ...*see page* ***136***
- Unfinished aluminum inner panels ...*see page* ***136***
- Viewing windows...*see page* ***138***

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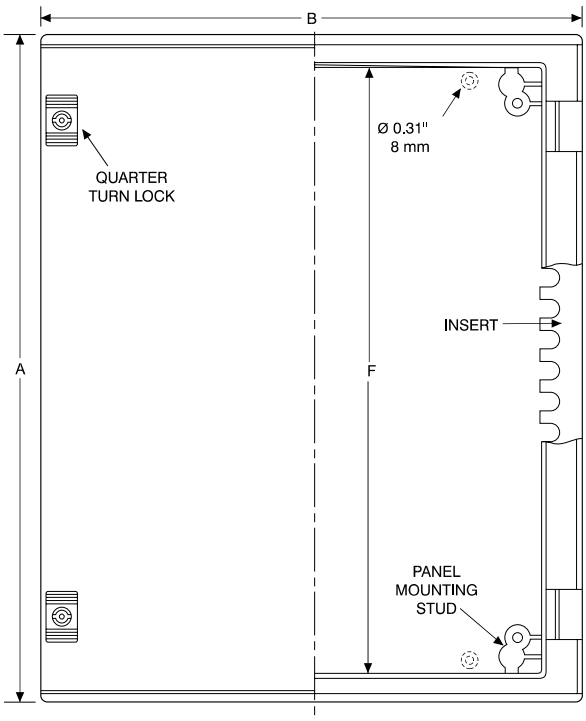
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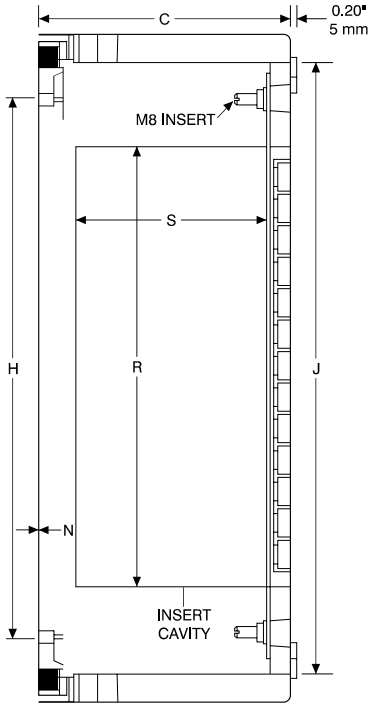
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Polyester Modular Enclosures - NEMA 4X

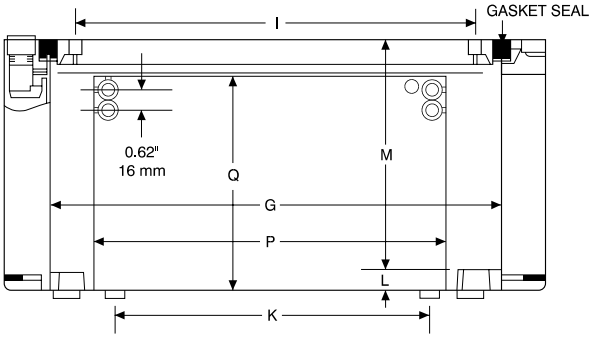
PW Series - Wallmount Enclosures



Front View



Side View



Cross Section of Body with Door Attached

Optional Inner Panels

Enclosure Part No.	Optional Steel Inner Panel Part No.		A	B
PW433320	**PWP4333**	inch	14.37	9.84
		mm	*365*	*250*
PW534320	**PWP5343**	inch	18.31	13.78
		mm	*465*	*350*
PW654425	**PWP6544**	inch	22.24	13.78
		mm	*565*	*350*
PW755430	**PWP7554**	inch	26.18	17.72
		mm	*665*	*450*
PW856430	**PWP8564**	inch	30.12	21.65
		mm	*765*	*550*

[1] For aluminum panel...*see page* **136**.
Inches are for reference only. Use metric for precise measurements.

Part No.		Overall Dimensions			Enclosure Opening			Surface Mtg Emboss										Ship Wt. lbs
		A	B	C	F	G	H	I	J	K	L	M	N	P	Q	R	S	
PW433320	inch	16.9	13.0	7.9	15.0	10.2	12.8	8.9	14.8	5.9	0.5	7.1	0.1	7.0	6.6	9.7	5.9	10
	mm	*430*	*330*	*200*	*380*	*260*	*325*	*225*	*375*	*150*	*13*	*181*	*2.7*	*179*	*168*	*247*	*150*	
PW534320	inch	20.9	16.9	7.9	18.9	14.2	16.7	12.8	18.7	9.8	0.5	7.1	0.1	11.0	6.6	13.7	5.9	14
	mm	*530*	*430*	*200*	*480*	*360*	*425*	*325*	*475*	*250*	*13*	*181*	*2.9*	*279*	*168*	*347*	*150*	
PW654425	inch	25.5	17.2	9.8	22.8	14.2	20.7	12.8	22.6	9.8	0.5	9.0	0.1	11.0	8.3	15.3	7.6	18
	mm	*647*	*436*	*250*	*580*	*360*	*525*	*325*	*575*	*250*	*13*	*228*	*2.9*	*279*	*212*	*388*	*192*	
PW755430	inch	29.4	21.1	11.8	26.8	18.1	24.6	16.7	26.6	13.8	0.6	10.9	0.1	14.9	10.3	19.2	9.5	27
	mm	*747*	*536*	*300*	*680*	*460*	*625*	*425*	*675*	*350*	*15*	*278*	*3.0*	*379*	*261*	*487*	*241*	
PW856430	inch	33.3	25.0	11.8	30.7	22.0	28.5	20.7	30.5	17.7	0.6	10.9	0.1	18.9	10.3	23.1	9.5	33
	mm	*847*	*636*	*300*	*780*	*560*	*725*	*525*	*775*	*450*	*15*	*278*	*3.0*	*479*	*261*	*587*	*241*	

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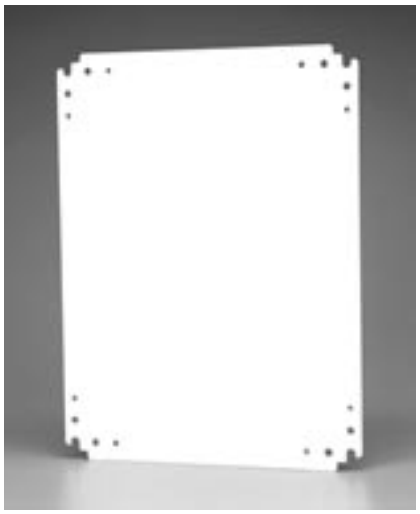
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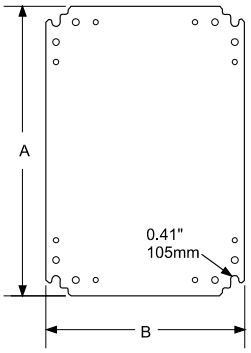
Polyester Modular Enclosures - NEMA 4X

PW Series - Accessories



PW Series Inner Panel

- Available in steel or unfinished aluminum.
- 12 gauge steel panels are finished in white baked powder coating.
- Aluminum panels are 0.125" (3.2mm) unfinished.
- Hardware to mount inner panels is included with PW enclosures.



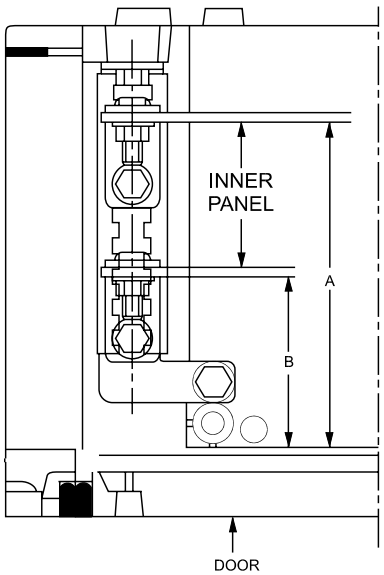


Steel Part No.	Aluminum Part No.	Fits Enclosure		A	B
PWP4333	**PWPA4333**	**PW433320**	inch	14.37	9.84
			mm	*365*	*250*
PWP5343	**PWPA5343**	**PW534320**	inch	18.31	13.78
			mm	*465*	*350*
PWP6544	**PWPA6544**	**PW654425**	inch	22.24	13.78
			mm	*565*	*350*
PWP7554	**PWPA7554**	**PW755430**	inch	26.18	17.72
			mm	*665*	*450*
PWP8564	**PWPA8564**	**PW856430**	inch	30.12	21.65
			mm	*765*	*550*



PW Series Adjustable Depth Supports

- Supports designed to fit 200 mm (7.88"), 250 mm (9.80"), 300 mm (11.80") and 350 mm (13.8") enclosures.
- Self positioning slots allowing for adjustment every 12.5 mm (0.50").
- Made of double chromed zinc coated steel.
- Attaches easily to the enclosure.



Top View

Part No.	Fits Enclosures		Full Back A	Full Front B
PWDC200	**PW534320**	inch	6.4	3.9
	PW433320	*mm*	*162*	*99*
PWDC250	**PW654425**	inch	8.1	4.1
		mm	*205*	*105*
PWDC300	**PW755430**	inch	10.0	8.1
	PW856430	*mm*	*255*	*205*

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Polyester Modular Enclosures - NEMA 4X

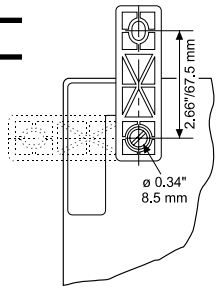
PW Series - Accessories



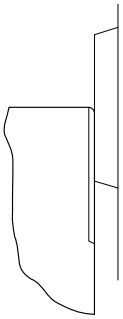
PW Series Mounting Feet

- Constructed of polyamide and fiberglass.
- Kit includes inserts and M8 screws to permit horizontal or vertical installation.
- Easily installed in the field.

Part No.	PWMF



Rear View



Side View



PW Series Rear Blanking Cover

- Insulating rubber covers simply "snap" in covering the rear self-ventilating openings when additional protection is required.
- Easily installed in the field - no hardware required.
- Quantity of 4.

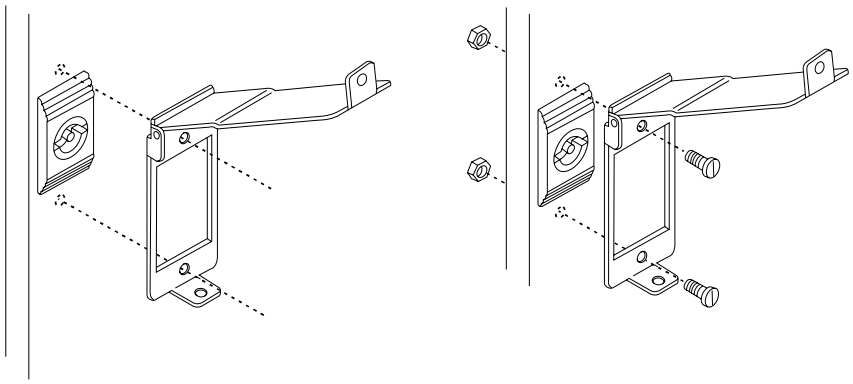
Part No.	Fits Enclosures
PWRBG20	PW433320
	PW534320
PWRBG2530	PW654425
	PW755430
	PW856430



PW Series Padlock Adaptor

- Permits installation of padlock over the standard "Double Bar" quarter turn.
- 1.5 mm thick stainless steel.
- Easy installed in the field.

Part No.	PWPA



Padlocking Lock System Installation

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Polyester Modular Enclosures - NEMA 4X

PW Series - Accessories



Porthole Viewing Windows

- Made of high UV resistance polycarbonate.
- Installation template included.
- Pre-installed gasket.

Part No.		A	B	C
PVW1111CC	inch	3.66	3.66	0.32
	mm	*93*	*93*	*8*
PVW1814CC	inch	5.04	5.04	0.22
	mm	*128*	*128*	*5.5*

Hardware Included



Hinged Viewing Windows

- Made of high UV resistance poly-carbonate.
- Installation template included.
- Pre-installed gasket.
- Finger latches for easy opening with securing provision.

Part No.		A	B	C
PVW9577CC	inch	3.03	3.74	0.60
	mm	*77*	*95*	*15*
PVW1677CC	inch	3.03	6.42	0.60
	mm	*77*	*163*	*15*
PVW2077CC	inch	3.03	7.87	0.60
	mm	*77*	*200*	*15*

Hardware Included



Large Viewing Windows

- Made of high UV resistance poly-carbonate.
- Installation template included.
- Pre-installed gasket.
- Surface mounting on a wide variety of enclosures from steel to non-metallic.
- Quarter turn thumb latch.

Part No.		A	B
PVW2423CC	inch	9.76	9.25
	mm	*248*	*235*
PVW2929CC	inch	11.42	11.42
	mm	*290*	*290*

Hardware Included



Air Vents

- Designed to equalize external and internal temperatures and prevent condensation within the enclosure.
- Units are mounted within the self ventilating openings in PW Series.

Part No.	**PVENT**
Outside Diameter	**1.76**
Cutout Diameter	**1.36**

Hardware Included

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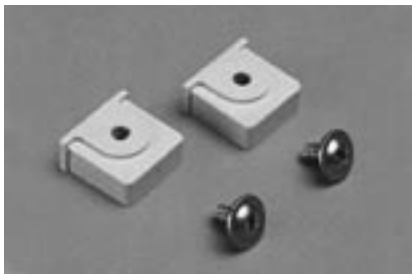
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Polyester Modular Enclosures - NEMA 4X

PW Series - Accessories



PW Series Rail Fixing Insert

- Insert nut specially designed to fit in the back of the enclosure for quick fixing of 35 mm (1.3") rails through self-tapping screws (included).
- Made of insulating material.
- Fits all sizes of PW enclosures.
- Packaged in quantities of two.

Part No.	PWIN



Metal Double Bar Enclosure Key

- PW Enclosures use a standard double bar key. One molded key is shipped with the enclosure, however in the instance you lose the key, or would like backup, they are available for order.
- Metal key fits all sizes of PW Enclosures.
- Packaged individually.

Part No.	PMKEY

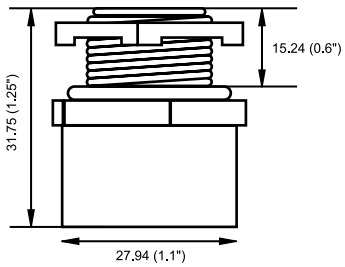


Molded Double Bar Enclosure Key

- PW Enclosures use a standard double bar key. One is shipped with the enclosure, however in the instance you lose the key, or would like backup, they are available for order.
- Molded key fits all sizes of PW Enclosures.
- Packaged individually.

Part No.	PWKEY





Breather Kit (Pressure Compensation Plug)

- Packaged individually.
- Provides for controlled pressure compensation due to temperature variations (i.e. night/day operation).
- Recommend two plugs per cabinet in opposite locations.
- Pipe Thread 1/2"NPT (actual dia. 0.84")

Part No.	**BDN4XN1**

CSA/A Ex Approvals:	Class I, Zone 1, Ex e II Class I Division 2 Groups ABCD Class II EFG, Class III
Ingress Protection:	IP66, CSA Enclosure Type NEMA 4X
Impact Resistance:	20Nm (7Nm GF Nylon)
Materials:	Durethan BKV 30 N1 30% Glass Filled Nylon O Ring - Nitrile Fixing nut - Brass
Operating Temp:	-50C to +85C

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Polyester Modular Enclosures - NEMA 4X

PHW Series - Heavy Duty Wallmount Enclosures



Panel Sold Separately

Application

- These enclosures are specially designed to accomodate electrical, electronic, instrumentation and mechanical controls indoors and outdoors.
- For use where corrosion resistant watertight enclosures are needed to provide protection against windblown dust and rain, splashing and hose directed water.

Standards

- UL 508 1, 3, 3R, 4, 4X, 12
- CSA 1, 3, 3R, 4, 4X, 12
- **Complies with**
  - NEMA 1, 3, 3R, 4, 4X, 12
  - IEC 60529, IP 66

Construction

- Compression molded, fiberglass reinforced polyester.
- Memory retaining, continuous door gasket standard.
- Molded in panel mounting inserts (except where noted).
- Integral mounting feet.
- Stainless steel hardware.
- Padlocking provision.
- Stainless steel butterfly type "twist latch" door fasteners.
- Door is supported with a continuous hinge.
- For corrosion resistance information, please refer to table in the Technical Information section.

Finish

- Fiberglass reinforced material is finished in light gray.

Accessories

- Inner Panels

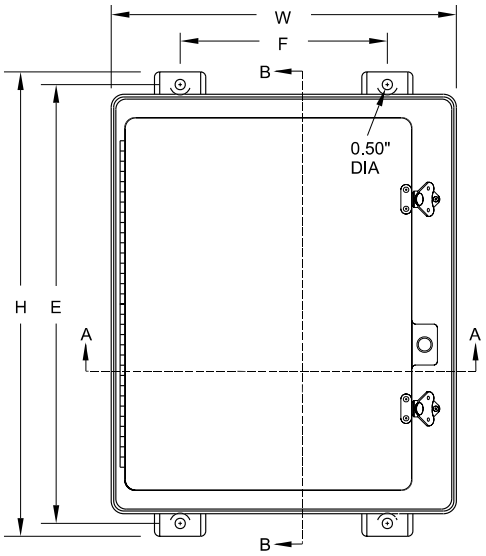
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All dimensions in inches unless specified otherwise

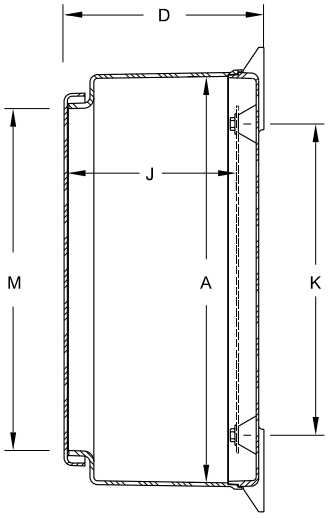
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Polyester Modular Enclosures - NEMA 4X

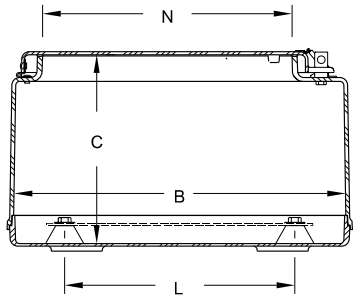
PHW Series - Heavy Duty Wallmount Enclosures



Front View



Section B-B



Section A-A

Part No.		Overall Dimensions H	W	D	Inside Dimensions A	B	C	Mtg. Centers E	F	J	K	L	Enclosure Opening M	N	Optional Panel Part No.	Ship Wt. lbs
PHW20166	inch	22.75	16.87	7.77	19.70	16.04	7.24	21.50	10.12	6.26	15.25	11.25	16.75	12.19	**18P1713**	17
	mm	*578*	*429*	*197*	*500*	*407*	*184*	*546*	*257*	*159*	*387*	*286*	*425*	*310*		
PHW20168	inch	22.75	16.87	9.77	19.70	16.04	9.24	21.50	10.12	8.26	15.25	11.25	16.75	12.19	**18P1713**	22
	mm	*578*	*429*	*248*	*500*	*407*	*235*	*546*	*257*	*210*	*387*	*286*	*425*	*310*		
PHW201610	inch	22.75	16.87	11.77	19.70	16.04	11.24	21.50	10.12	10.26	15.25	11.25	16.75	12.19	**18P1713**	23
	mm	*578*	*429*	*299*	*500*	*407*	*286*	*546*	*257*	*261*	*387*	*286*	*425*	*310*		
PHW201612	inch	22.75	16.87	13.77	19.70	16.04	13.24	21.50	10.12	12.26	15.25	11.25	16.75	12.19	**18P1713**	24
	mm	*578*	*429*	*350*	*500*	*407*	*336*	*546*	*257*	*312*	*387*	*286*	*425*	*310*		
PHW241210	inch	26.95	13.72	11.99	24.00	12.87	11.33	25.75	6.25	10.33	19.25	7.25	21.00	8.37	**18P2109**	25
	mm	*685*	*348*	*304*	*610*	*327*	*288*	*654*	*159*	*262*	*489*	*184*	*533*	*213*		
PHW24208	inch	27.00	21.24	9.90	24.05	20.39	9.25	25.75	14.00	8.25	19.25	15.25	21.25	16.00	**18P2117**	32
	mm	*686*	*539*	*252*	*611*	*518*	*235*	*654*	*356*	*209*	*489*	*387*	*540*	*406*		
PHW242410	inch	27.00	25.25	11.90	24.05	24.39	11.25	25.75	17.87	10.25	19.25	19.25	21.25	20.00	**18P2121**	42
	mm	*686*	*641*	*302*	*611*	*619*	*286*	*654*	*454*	*260*	*489*	*489*	*540*	*508*		
PHW30208	inch	32.86	20.99	9.89	29.90	20.14	9.23	31.75	14.25	8.23	25.25	15.25	27.00	16.50	**19P2717**	36
	mm	*835*	*533*	*251*	*760*	*511*	*234*	*806*	*362*	*209*	*641*	*387*	*686*	*419*		
PHW302010	inch	32.86	20.99	11.89	29.90	20.14	11.23	31.75	14.25	10.23	25.25	15.25	27.00	16.50	**18P2717**	39
	mm	*835*	*533*	*302*	*760*	*511*	*285*	*806*	*362*	*260*	*641*	*387*	*686*	*419*		
PHW30247	inch	33.41	26.32	8.81	30.46	25.47	8.12	32.25	18.50	7.12	25.25	19.25	27.38	21.25	**18P2721**	45
	mm	*849*	*668*	*224*	*774*	*647*	*206*	*819*	*470*	*181*	*641*	*489*	*695*	*540*		
PHW302410	inch	33.41	26.32	11.95	30.46	25.47	11.27	32.25	18.50	10.27	25.25	19.25	27.38	21.25	**18P2721**	50
	mm	*849*	*668*	*304*	*774*	*647*	*286*	*819*	*470*	*261*	*641*	*489*	*695*	*540*		
PHW302412	inch	33.41	26.32	13.79	30.46	25.47	13.10	32.25	18.50	12.1	25.25	19.25	27.38	21.25	**18P2721**	54
	mm	*849*	*668*	*350*	*774*	*647*	*333*	*819*	*470*	*307*	*641*	*489*	*695*	*540*		
PHW363010	inch	39.31	32.50	12.05	36.31	31.69	11.36	38.13	23.88	10.36	31.25	25.25	33.25	27.25	**18P3327**	78
	mm	*999*	*826*	*306*	*922*	*805*	*289*	*968*	*606*	*263*	*794*	*641*	*845*	*692*		
PHW363012	inch	39.31	32.50	14.05	36.31	31.69	13.36	38.13	23.88	12.36	31.25	25.25	33.25	27.25	**18P3327**	81
	mm	*999*	*826*	*357*	*922*	*805*	*339*	*968*	*606*	*314*	*794*	*641*	*845*	*692*		
PHW483616	inch	51.29	36.62	17.93	48.33	36.22	17.25	50.12	29.25	16.25	43.25	31.25	45.25	32.00	**18P4533**	108
	mm	*1303*	*930*	*456*	*1228*	*920*	*438*	*1273*	*743*	*413*	*1099*	*794*	*1149*	*813*		
PHW603616	inch	63.50	36.50	18.12	60.13	36.13	17.44	62.25	28.50	16.44	53.06	31	55.75	32.00	**18P5733**	155
	mm	*1613*	*927*	*460*	*1527*	*918*	*443*	*1581*	*724*	*418*	*1348*	*787*	*1416*	*813*		

Inches are for reference only. Use metric for precise measurements.

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Disconnect Enclosures


1447S Single Door Disconnect Enclosures - NEMA 12, 13 ..... **144**

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EN4DSC Disconnect Enclosures - NEMA 4 ..... **158**


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EN4DSC 304 Stainless Steel Disconnect Enclosures - NEMA 4, 4X..... **162**


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1447A Single Door Disconnect Enclosures - Allen Bradley, 1494 F & D Series Only NEMA 12, 13 ..... **178**


2UD Two Door Wallmount Disconnect Enclosures - NEMA 12 ..... **182**


2UDF Two Door Floormount Disconnect Enclosures - NEMA 12 ..... **184**


2UDCP Two Door Floormount Disconnect Enclosures - NEMA 12 ..... **186**

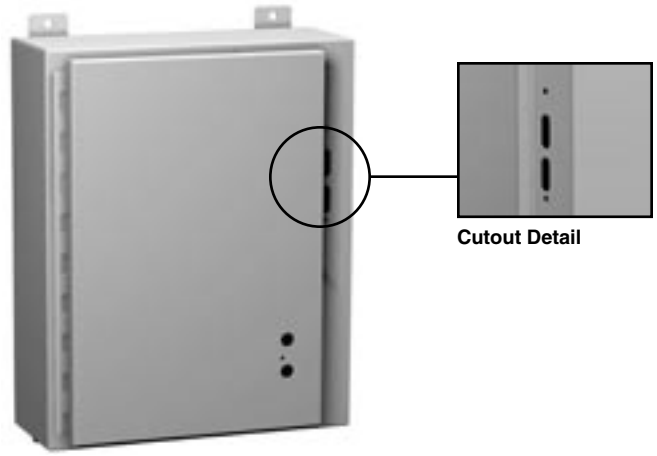

UHD Heavy Duty Disconnect Enclosures - NEMA 12 ..... **200-217**


UHDM Modular Disconnect Enclosures - NEMA 12 ..... **218**

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Cutout Detail

Inner Panel Included

Application

Designed to house the following safety disconnect equipment:

- **ABB Controls** flange-mounted variable depth operating mechanism for disconnect switches and circuit breakers. Also cable version for circuit breakers.
- **Allen Bradley** 1494V variable depth flange mounted disconnect switches and circuit breaker operators. Will not accept Allen Bradley 1494F disconnect switches, 1494D circuit breaker operators.
- **C-H Westinghouse** C361 flange mounted variable depth operating mechanism with disconnect switches and C371 flange mounted variable depth operating mechanisms for circuit breakers. Also Flex-Shaft™ handle mechanisms for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanism for disconnect switches and circuit breakers. Also SpectraFlex™ cable operators for circuit breakers.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth handles for disconnect switches and circuit breakers.
- **Square D** class 9422 disconnect switches with flange mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange-mounted variable depth operating mechanisms or cable mechanisms for circuit breakers. Will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.

Standards

- UL 508 Type 12, 13
- CSA Type 12, 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed 14-gauge steel.
- Continuously welded seams.
- Larger sizes include door and body stiffeners.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the handle, operating mechanism and door closing mechanism.
- Continuously hinged doors may be removed by pulling the hinge pin.
- Latch pivots and cover interlock brackets are welded to the door.
- Cover latch bars for door handles are provided.
- Collar studs are provided for mounting inner panels.
- A removable 12 gauge inner panel is included.
- Oil resistant gaskets are permanently secured and mechanically retained.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided.

Note:

- Disconnects, operating mechanisms and door hardware are not provided with the enclosure, and must be ordered separately from the manufacturer.
- Enclosures with an "A" dimension under 40" require 2 point door closing hardware.
- Enclosures with an "A" dimension 40" or more require 3 point door closing hardware.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Enclosure interior is finished in white powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Air conditioners...*see page* ***389***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Filter fans...*see page* ***413-414***
- Floor stand kits...*see page* ***448***
- Heaters...*see page* ***418-420***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

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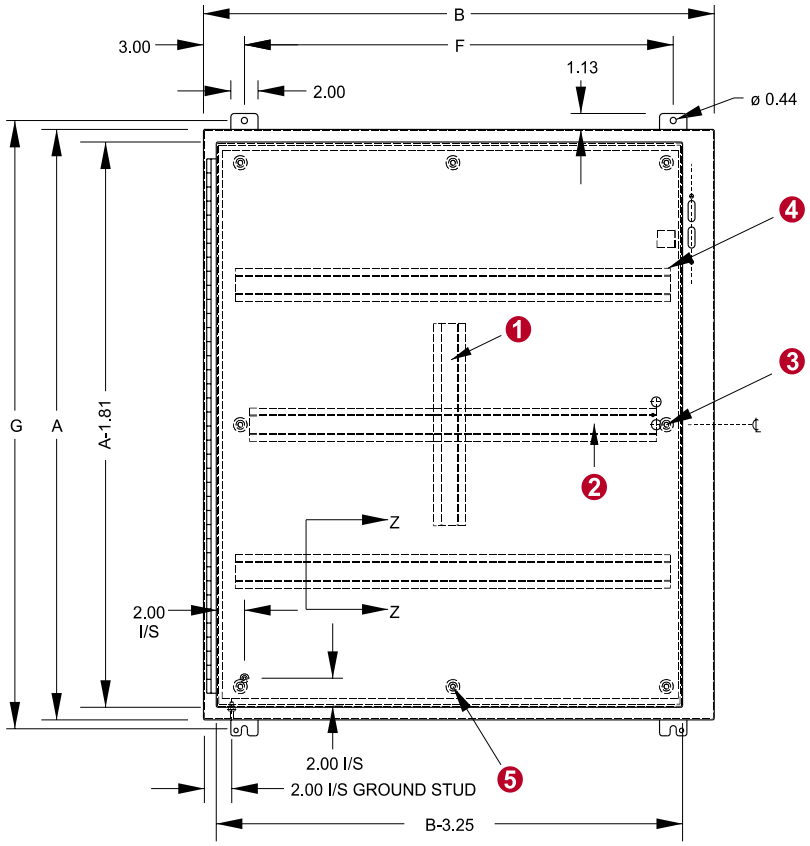
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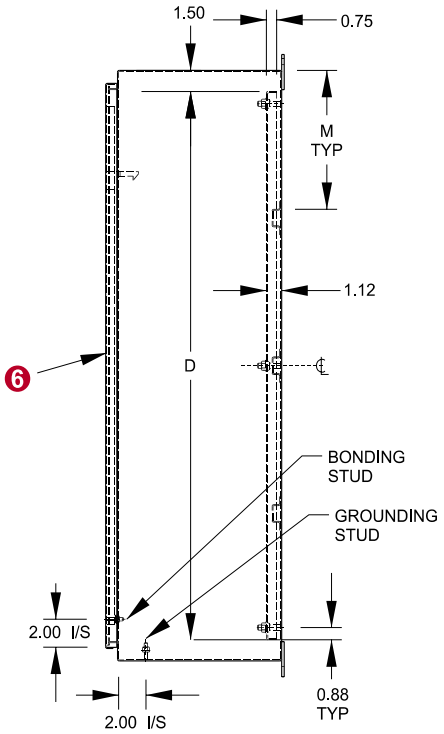
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1447S Single Door Disconnect Enclosures - NEMA 12, 13

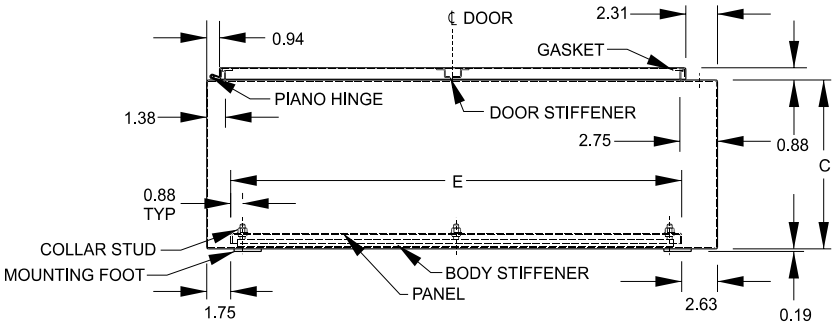
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



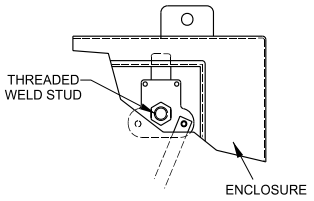
Front View



Side View

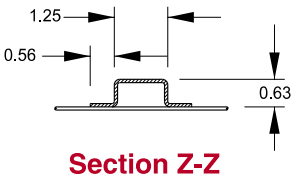


Top View



Closing Mechanism

Catches top of enclosure only



Section Z-Z

When A=	M=
36	9.00
42	9.88
48	11.38
60	14.38

1. Vertical body stiffener req'd on 1447SG only.
2. Omit center body stiffener if A is less than 41".
3. Omit 2 middle studs if A is less than 31".
4. Omit body stiffeners if B is 28" or less.
5. Omit 2 middle studs if B is less than 32".
6. Omit door stiffener if B is 32" or less except if AxB is 42"x31.38".

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Part No.	Panel Size					Mounting Center		Ship	Center
	A	B	C	D	E	F	G	Wt. lbs	Stiffener[2]
1447SA8	20	21.38	8	17	17	15.38	21.25	51	N
1447SB8	24	21.38	8	21	17	15.38	25.25	60	N
1447SC8	24	25.38	8	21	21	19.38	25.25	71	N
1447SD8	30	21.38	8	27	17	15.38	31.25	74	N
1447SE8	30	25.38	8	27	21	19.38	31.25	87	N
1447SF8	36	25.38	8	33	21	19.38	37.25	98	N
1447SG8	36	31.38	8	33	27	25.38	37.25	121	N
1447SH8	42	31.38	8	39	27	25.38	43.25	135	I
1447SJ8	42	37.38	8	39	33	31.38	43.25	154	I
1447SK8	48	37.38	8	45	33	31.38	49.25	172	I
1447SL8	60	37.38	8	57	33	31.38	61.25	248	I
1447SA10	20	21.38	10	17	17	15.38	21.25	52	N
1447SB10	24	21.38	10	21	17	15.38	25.25	63	N
1447SC10	24	25.38	10	21	21	19.38	25.25	71	N
1447SD10	30	21.38	10	27	17	15.38	31.25	80	N
1447SE10	30	25.38	10	27	21	19.38	31.25	90	N
1447SF10	36	25.38	10	33	21	19.38	37.25	100	N
1447SG10	36	31.38	10	33	27	25.38	37.25	126	N
1447SH10	42	31.38	10	39	27	25.38	43.25	143	I
1447SJ10	42	37.38	10	39	33	31.38	43.25	193	I
1447SK10	48	37.38	10	45	33	31.38	49.25	180	I
1447SL10	60	37.38	10	57	33	31.38	61.25	255	I
1447SE12	30	25.38	12	27	21	19.38	31.25	100	N
1447SG12	36	31.38	12	33	27	25.38	37.25	130	N
1447SH12	42	31.38	12	39	27	25.38	43.25	150	I
1447SJ12	42	37.38	12	39	33	31.38	43.25	200	I
1447SK12	48	37.38	12	45	33	31.38	49.25	220	I
1447SL12	60	37.38	12	57	33	31.38	61.25	265	I
1447S46L12	60	37.38	12	57	34.5	31.38	61.25	265	1
1447SG16	36	31.38	16	33	27	25.38	37.25	150	N
1447SK16	48	37.38	16	45	33	31.38	49.25	200	I
1447SL16	60	37.38	16	57	33	31.38	61.25	265	I

[2] Center stiffener; N = Not Included I = Included

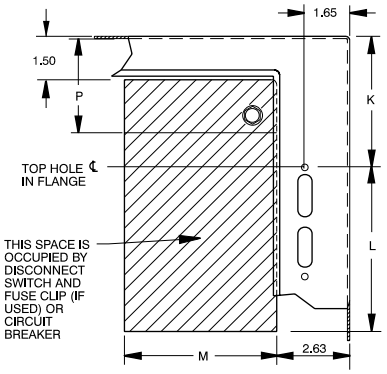
Space Occupied by Disconnect

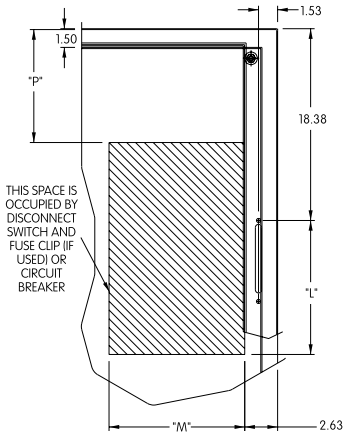
Note: "K" = 4.75 when "C" = 8.00
"K" = 7.09 when "C" = 10.00
"K" = 11.62 when "C" = 12.00
"K" = 11.62 when "C" = 16.00
"K" = 18.38 for 1447S46L12
"P" = Wiring Space

Disconnects will occupy space on panel shown by dimensions "K", "L" and "M".

Wiring space "P" is available when disconnect is installed in the enclosure.

*The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing not responsible for dimensional accuracy.





1447S46L12 only
1494V-H2 and ITE PHOHN Operating Handle

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

Selection Guide

Hammond Series		1447S
ABB Controls	**Disconnect Switch**	Flange operated switch (fusible or non-fusible)
		Shaft: 8-12" dp enclosures, use DSFHS-12; 16" dp enclosures, use DSFHS-17
		Handle: DSFHN-HS12
		Door Hardware: 2 pt. Latching, use KDH2R; 3 pt. Latching, use KDH3R and FH-3RL
	Circuit Breaker	Circuit breaker: ABB
		Operating Mechanism: see ABB chart
		Shaft: 8-12" dp enclosures, use K7FHD-S12; 16" dp enclosures, use K7FHD-S17
		Handle: K7FHD-HS12
		Door Hardware: 2 pt. Latching, use FH-DHK; 3 pt. Latching, use FH-DHK and FH-3RL
Allen Bradley	**1494V Flange Disconnect Switch**	Disconnect switch and operating mechanism: Bulletin 1494V
		Handle: Bulletin 1494V-H1 (except for Hammond part # 1447S46L12, use 1494V-H2)
		Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2 (except for Hammond part # 1447S46L12, use 1494V-RB2 (2))
		Trailer fuse block kit (if required): Bulletin 1494V
		Fuse kit (if required)
		Line and load connectors (if required)
		Door Hardware: 2 pt. Latching, use 1494V-L1; 3 pt. Latching, use 1494VL2
	1494V Flange Circuit Breaker	Circuit breaker: C-H Westinghouse
		Operating mechanism: Bulletin 1494V
		Handle: Bulletin 1494V-H11
		Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2
		Door Hardware: 2 pt. Latching, use 1494V-L1; 3 pt. Latching, use 1494VL2
Cutler Hammer	**Type C361 Disconnect Switch**	Disconnect switch and operating mechanism
		Handle: C361-H1 or H3
		Door Hardware: 2 pt. Latching, use C361KJ4 or KJ6; 3 pt. Latching, use C361KJ4 or KJ6, and C361KR
	Type C371 Circuit Breaker	Circuit breaker: C-H Westinghouse
		Operating mechanism
		Handle: 150 amp, use C371H1 or H3; 250-600 amp, use C371H5 or H7
		Door Hardware: 2 pt. Latching, use C361KJ4 or KJ6; 3 pt. Latching, use C361KJ4 or KJ6, and C361KR
	C-H Westinghouse Circuit Breaker w/FlexShaft	Circuit breaker
		Complete Flex-Shaft handle mechanism
		Door Hardware: 2 pt. Latching, use C361KJ4 or KJ6; 3 pt. Latching, use C361KJ4 or KJ6, and C361KR
General Electric	**Type STDA Flange Disconnect Switch**	Disconnect switch Type QMR or QMW
		Handle: STDA1 or STDA2
		Fuse kit (if required)
		Variable depth operating mechanism
		Door Hardware: 2 pt. Latching, use TDV-1; 3 pt. Latching, use TDV-1 and TDV-3
	Type STDA Flange Circuit Breaker	Circuit breaker
		Handle: STDA1 or STDA2
		Variable depth operating mechanism
		Door Hardware: 2 pt. Latching, use TDV-1; 3 pt. Latching, use TDV-1 and TDV-3
	Circuit Breaker w/SpectraFlex	Circuit breaker
		Flange Mt. Handle: 150-600 amp, use STDA1; SK1200, use STDA3
		Breaker mounted mechanism.
		Operating cable
		Door Hardware: 2 pt. Latching, use TDV-1; 3 pt. Latching, use TDV-1 and TDV-3
I-T-E Siemens	**Max-Flex Flange Disconnect Switch**	Disconnect switch: MCS
		Fuse Kit (if required)
		Handle: Flange mount FHOHS
		Switch operator mechanism
		Operating cable (standard 36.0")
		Door Hardware: 2 pt. Latching, use DKR2; 3 pt. Latching, use DKR3
	Max-Flex Flange Circuit Breaker	Circuit breaker
		Pressure wire connectors
		Handle: Flange mount FHOH (except for Hammond part # 1447S46L12, use FHOHN)
		Circuit breaker operator mechanism
		Operating cable: 125-600 amp, use 36"; 800 amp, use 48"
		Door Hardware: 2 pt. Latching, use DKR2; 3 pt. Latching, use DKR3
Square D	**Class 9422 Disconnect Switch**	Disconnect switch and operating mechanism 9422
		Handle: Type A-1
		Door Hardware: 2 pt. Latching, use 9423-M4 or M9; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3
	Class 9422 Circuit Breaker	Circuit breaker
		Operating mechanism: Class 9422
		Handle: Type A-1
		Door Hardware: 2 pt. Latching, use 9423-M4 or M9; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3
	Class 9422 "T" Disconnect Switch w/ cable mechanism	Disconnect switch and operating mechanism 9422, Type T
		Handle: Type A-1
		Cable mechanism: Class 9422 CFT_O - 3, 5, or 10 foot
		Door Hardware: 2 pt. Latching, use 9423-M4; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3
	Circuit Breaker w/ cable mechanism	Circuit breaker: Square D
		Handle: Type A-1
		Door Hardware: 2 pt. Latching, use 9423-M4; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

ABB Controls

ABB Controls Disconnect Switches (Flange Mounted Operators)

Fits Enclosure Depth				ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16					L	M	P	P	P
•	•	•	•	**OETL-NF30-F**	30A	No Fuse	—	4.45	3.78	6.41	8.75	13.28
•	•	•	•	**OETL-NF60-F**	60A	No Fuse	—	4.86	3.78	6.22	8.56	13.09
•	•	•	•	**OETL-NF100-F**	100A	No Fuse	—	4.86	4.78	5.66	8.00	12.53
	•	•	•	**OETL-NF175-F**	175A	No Fuse	—	7.30	6.49	—	5.75	10.28
	•	•	•	**OETL-NF200-F**	200A	No Fuse	—	7.36	7.28	—	5.75	10.28
•	•	•	•	**OESA-F30J6-F**	30A	30A-600V	J	4.28	6.58	4.73	7.07	11.61
•	•	•	•	**OESA-F60J6-F**	60A	60A-600V	J	4.28	6.26	4.73	7.07	11.61
•	•	•	•	**OESA-F100J6-F**	100A	100A-600V	J[1]	6.54	7.65	4.30	6.64	11.17
					200A [2]							

[1] J type fuse clips are standard. If 600 V Type "T" fuse clips are desired order T type fuse adaptor kit.
[2] 200 A available by using non-fusible 200A switch and a trailing fuse block. (consult ABB)

ABB Controls Circuit Breaker (Flange Mounted Operators)

Fits Enclosure Depth				ISOMAX Circuit Breaker	Amp Rating	Operating Mechanism	Space Frame Type	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16					L	M	P	P	P
•	•	•	•	**S1N100TL**	100A	K2FHD-M	S1	5.30	4.60	5.26	7.60	12.13
	•	•	•	**S3N150TW**	150A	K3FHD-M	S3	6.67	5.02		7.00	11.53
	•	•	•	**S3N225TW**	225A	K3FHD-M	S3	6.67	5.02		7.00	11.53
	•	•	•	**S4N250BW**	250A	K4FHD-M	S4	8.45	5.02		5.47	10.00
	•	•	•	**S5N400TW**	400A	K5FHD-M	S5	8.45	6.40		5.47	10.00
		•	•	**S6N600TW**	600A	K6FHD-M	S6	8.33	10.00			9.33
		•	•	**S6N800TW**	800A	K6FHD-M	S6	8.33	10.00			9.33

Charts reference Space Occupied by Disconnect Drawing.

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Allen Bradley

Allen Bradley 1494V Disconnect Switches

Fits Enclosure Depth				Allen Bradley Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16					L	M[1]	P	P	P
•	•	•	•	**DS30**	30A	No Fuse	—	3.88	6.62	2.88	5.25	9.75
•	•	•	•	**DS30**	30A	30A-250V	H,K,R	5.25	6.62	2.88	5.25	9.75
•	•	•	•	**DS30**	30A	30A-600V	H,K,R	8.00	6.62	2.88	5.25	9.75
•	•	•	•	**DS30**	30A	30A-600V	J	5.25	6.62	2.88	5.25	9.75
•	•	•	•	**DS30**	30A	60A-250V	H,K	6.00	6.62	2.88	5.25	9.75
•	•	•	•	**DS30**	30A	60A-600V	H,K	8.50	6.62	2.88	5.25	9.75
•	•	•	•	**DS30**	30A	60A-600V	J	5.38	6.62	2.88	5.25	9.75
•	•	•	•	**DS60**	60A	No Fuse	—	3.88	6.62	2.75	5.12	9.62
•	•	•	•	**DS60**	60A	60A-250V	H,K,R	6.00	6.62	2.75	5.12	9.62
•	•	•	•	**DS60**	60A	60A-600V	H,K,R	8.50	6.62	2.75	5.12	9.62
•	•	•	•	**DS60**	60A	60A-600V	J	5.38	6.62	2.75	5.12	9.62
•	•	•	•	**DS60**	60A	30A-600V	H,K,R	8.00	6.62	2.75	5.12	9.62
•	•	•	•	**DS60**	60A	100A-250V	H,K	8.50	6.62	2.75	5.12	9.62
•	•	•	•	**DS60**	60A	100A-600V	H,K	10.50	6.62	2.75	5.12	9.62
•	•	•	•	**DS60**	60A	100A-600V	J	7.25	6.62	2.75	5.12	9.62
	•	•	•	**DS100[2]**	100A	No Fuse	—	3.88	6.62	—	5.12	9.62
	•	•	•	**DS100[2]**	100A	100A-250V	H,K,R	8.12	6.62	—	5.12	9.62
	•	•	•	**DS100[2]**	100A	100A-600V	H,K,R	10.12	6.62	—	5.12	9.62
	•	•	•	**DS100[2]**	100A	100A-600V	J	6.88	6.62	—	5.12	9.62
	•	•	•	**DS100[2]**	100A	60A-600V	H,K,R	10.12	6.62	—	5.12	9.62
	•	•	•	**DS100[2]**	100A	60A-600V	J	8.88	6.62	—	5.12	9.62
		•	•	**DS200[2]**	200A	No Fuse	—	4.75	7.88	—	—	8.12
		•	•	**DS200[2]**	200A	200A-250V	H,K,R	10.88	7.88	—	—	8.12
		•	•	**DS200[2]**	200A	200A-600V	H,K,R	13.38	7.88	—	—	8.12
		•	•	**DS200[2]**	200A	200A-600V	J	9.50	7.88	—	—	8.12
		•	•	**DS200[2]**	200A	100A-600V	H,K,R	12.00	7.88	—	—	8.12
		•	•	**DS200[2]**	200A	100A-600V	J	8.75	7.88	—	—	8.12
				DS400[3]	400A	no fuse	—	10.75	10.88	—	—	—
				DS400[3]	400A	400A-250V	H,K,R	16.12	10.88	—	—	—
				DS400[3]	400A	400A-600V	H,K.R	19.12	10.88	—	—	—
				DS400[3]	400A	400A-600V	J	14.62	10.88	—	—	—
				DS600[3,4]	600A	no fuse	—	10.75	10.88	—	—	—
				DS600[3,4]	600A	600A-250V	H,R	10.75	10.88	—	—	—
				DS600[3,4]	600A	600A-600V	H,R	10.75	10.88	—	—	—
				DS600[3,4]	600A	600A-600V	J	17.59	10.88	—	—	—

[1] "M" dimension does not allow for auxiliary switches. [2] Series B

[3] The 400 amp disconnect switch and the 600 amp switch will only fit catalog number 1447S46L12. Wire bend space of 12.12 inches is provided above disconnect when installed.

[4] "L" and "M" do not include separately mounted fuse blocks

Allen Bradley 1494V Circuit Breakers

Fits Enclosure Depth				Allen Bradley Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16					L	M[1]	P	P	P
•	•	•	•	M40	15A-150A	C-H Westinghouse Circuit Breakers EHD,FD,FDB,FDC,HFD,HMCP	—	5.00	4.50[1]	4.25	6.62	11.12
		•	•	M50	70A-250A	C-H Westinghouse Circuit Breakers JD,JDB,JDC,HJD,HMCP	—	9.75	4.75[1]	—	—	10.62
		•	•	M60	100A-400A	C-H Westinghouse Circuit Breakers KD,KDB,DK,HKD,HMCP	—	9.69	6.12[1]	—	—	10.50

[1] "M" dimension does not allow for auxiliary switches. Charts reference Space Occupied by Disconnect Drawing.

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer

Cutler Hammer C361 Disconnect Switches

Fits Enclosure Depth				Hammer Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16					L	M	P	P	P
•	•	•	•	**C361NC**	30A	No Fuse	—	5.75	7.43	3.44	5.75	10.31
•	•	•	•	**C361SC21**	30A	30A-250V	H, K, R	8.38	7.43	3.44	5.75	10.31
•	•	•	•	**C361SC61**	30A	60A-250V	H, K, R	8.38	7.43	3.44	5.75	10.31
•	•	•	•	**C361SC61**	30A	30A-600V	H, J, K, R	8.38	7.43	3.44	5.75	10.31
•	•	•	•	**C361ND**	60A	No Fuse	—	5.75	7.43	3.44	5.75	10.31
•	•	•	•	**C361SD22**	60A	60A-250V	H, K, R	8.38	7.43	3.44	5.75	10.31
•	•	•	•	**C361SD22**	60A	30A-600V	J	8.38	7.43	3.44	5.75	10.31
•	•	•	•	**C361SD62**	60A	60A-600V	H, K, R	8.38	7.43	3.44	5.75	10.31
•	•	•	•	**C361SD62**	60A	60A-600V	J	8.38	7.43	3.44	5.75	10.31
[1]	•	•	•	**C361NE**	100A	No Fuse	—	5.56	8.95	3.00	5.38	9.91
[1]	•	•	•	**C361SE263**	100A	100A-250V	H, K, R	10.31	8.95	3.00	5.38	9.91
[1]	•	•	•	**C361SE263**	100A	100A-600V	H, K, R	10.31	8.95	3.00	5.38	9.91
[1]	•	•	•	**C361SE263**	100A	100A-600V	J	10.31	8.95	3.00	5.38	9.91
		[2]	[2]	**C361NF**	200A	No Fuse	—	13.06	10.00	—	—	7.94
		[2]	[2]	**C361SF264**	200A	200A-250V	H, K, R	13.06	10.00	—	—	7.94
		[2]	[2]	**C361SF264**	200A	200A-600V	H, J, K, R	13.06	10.00	—	—	7.94

[1]Wire bend space "P" does not allow the use of maximum cable size in 8" deep enclosures.
[2]200A switch should be installed in enclosures with an "A" dimension of 30" or greater.

Cutler Hammer C371 Circuit Breaker Operators (C-H Westinghouse Circuit Breakers)

Fits Enclosure Depth				Cutler Hammer Mechanism	Amp Rating	Frame Type	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16				L	M	P	P	P
•	•	•	•	**C371E**	205A	F Frame EHD,FDB,FD,HFD,FDC	6.00	5.50	4.44	6.81	11.44
•	•	•	•	**C371E**	150A	F Frame HMCP	6.00	5.50	4.44	6.81	11.44
	•	•	•	**C371F**	250A	J Frame JDB,JD,HJD,JDC	8.94	8.00	—	6.75	11.25
	•	•	•	**C371F**	250A	J Frame HMCP	10.94	8.00	—	6.75	11.25
		•	•	**C371F**	400A	K Frame DK,KDB,KD,HKD	9.75	8.00	—	—	10.75
		•	•	**C371F**	400A	K Frame HMCP	9.75	8.00	—	—	10.75
		•	•	**C371G**	600A	L Frame LD,HLD,LDC	8.44	11.88	—	—	9.18
		•	•	**C371G**	600A	L Frame HMCP	8.44	11.88	—	—	9.18

Charts reference Space Occupied by Disconnect Drawing.

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer

Cutler Hammer Flex-Shaft™ Operator Mechanisms (C-H Westinghouse Circuit Breakers)

Fits Enclosure Depth				Complete Operator Mechanisms	Amp Rating	Frame Type	Breaker Height "X" (in inches)	Breaker Width "Y" (in inches)
8	10	12	16					
•	•	•	•	F1S03	150A	F Frame EHD, FDB, FD, HFD, FDC	6.00	4.12
•	•	•	•	F1S03	150A	F Frame HMCP	6.00	4.12
•	•	•	•	F2S03	250A	J Frame JDB, JD, HJD, JDC	10.00	4.12
•	•	•	•	F2S03	250A	J Frame HMCP	10.00	4.12
•	•	•	•	F3S03	400A	K FrameDK, KDB, KD, HKD	10.12	5.50
•	•	•	•	F3S03	400A	K Frame HMCP	12.45	5.50
	•	•	•	F4S04	600A	L Frame LD, HLD, LDC	10.75	8.25
	•	•	•	F7S04	800A	M Frame MD, MDS	16.00	8.25
	•	•	•	F5S04	1200A	N Frame ND, HND, NDC	16.00	8.25
	•	•	•	F6S04	2500A	R Frame RD, CRD, RDC	16.00	15.50

Part numbers for Complete Operator Mechanisms include flange mounted handle, flexible shaft and circuit breaker mechanism.
The last digit of the part number denotes the shaft length (F1S03=3' length).

- F,J,K frame Flex-Shafts™ available in 3' to 10' lengths.
- L,N,R frame Flex-Shafts™ available in 4' to 6' lengths.

Space Occupied By Disconnect

1. Flex-Shaft™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref “P”) needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 4" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric

General Electric Type STDA Disconnect Switches

Fits Enclosure Depth 8	10	12	16	General Electric Mechanisms For Switches	Amp Rating	Fuse Clip	Fuse Class	Space Occupied L	M	When K=4.75 P	When K=7.09 P	When K=11.62 P
[1]	•	•	•	**TDOM1A**	30A	No Fuse	—	7.75 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1A**	30A	30A-250V	H, R	7.75 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	30A	30A-600V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	30A	60A-250V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	30A	60A-600V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1A**	60A	No Fuse	—	7.75 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	60A	60A-250V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	60A	60A-600V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	60A	100A-250V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	60A	100A-600V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1A**	100A	No Fuse	—	7.75 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	100A	100.A-250V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	100A	100A-600V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	100A	200A-250V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
[1]	•	•	•	**TDOM1B**	100A	200A-600V	H, R	12.38 [2]	5.25	6.18	7.62	12.12
		•	•	**TDOM2**	200A	No Fuse	—	7.00	9.12	—	—	9.50
		•	•	**TDOM2**	200A	200A-250V	H, R	15.38	9.12	—	—	9.50
		•	•	**TDOM2**	200A	200A-600V	H, R	15.38	9.12	—	—	9.50

[1]Disconnect moved down 0.875" to fit on panel.
[2]Applies to 8" deep enclosures and is 0.875 less in 10", 12" and 16" deep enclosures.

General Electric Type STDA Circuit Breaker Operators

Fits Enclosure Depth 8	10	12	16	Cutler Hammer Mechanism	Amp Rating	Frame Type	Space Occupied L	M	When K=4.75 P	When K=7.09 P	When K=11.62 P
[1]	•	•	•	**SDOM1A**	150A	TEB, TED, THED	7.75[2]	5.25	6.06	7.50	12.06
[1]	•	•	•	**SDOM1A**	150A	TEC	7.75[2]	5.25	6.06	7.50	12.06
[1]	•	•	•	**TDOM1B**	150A	TB1	12.38[2]	5.25	6.06	7.50	12.06
[1]	•	•	•	**TDOM1B**	150A	TEC, TECL	12.38[2]	5.25	6.06	7.50	12.06
[1]	•	•	•	**TDOM1C**	150A	TEL	7.75[2]	5.25	6.06	7.50	12.06
	•	•	•	**TDOM1D**	150A	THLC1	7.75	5.25	—	5.12	9.62
	•	•	•	**TDOM3**	225A	TFJ	10.38	5.75	—	6.06	10.62
		•	•	**TDOM3**	225A	TFK, THFK, TFL	10.38	5.75	—	6.06	10.62
	•	•	•	**TDOM4**	400A	TJJ, TJK4, THJK4, TJL4V	8.25	9.38	—	5.12	9.69
	•	•	•	**TDOM4**	600A	TJK6, THJK6, TJ4V, TJL4V	8.25	9.38	—	5.12	9.69
	•	•	•	**TDOM5**	400A	TB4, TJH6S	14.25	9.38	—	5.12	9.69
		•	•	**TDOM6**	225A	TLB2, THLC2	11.75	9.38	—	—	9.12
		•	•	**TDOM6**	400A	TLB4, THLC4	11.75	9.38	—	—	7.75
[1]	•	•	•	**SD0M1A**	150A	SPECTRA SE150	7.75[2]	5.25	6.06	7.50	12.06
		•	•	**SD0M3**	250A	SPECTRA SF250	10.38	5.75	—	6.06	10.62
		•	•	**SD0M4**	600A	SPECTRA SG600	10.00	7.00	—	—	7.93

[1]Disconnect moved down 0.875" to fit on panel.
[2]Applies to 8" deep enclosures only. For 10", 12" and 16" deep enclosures, 0.875 less.

Charts reference Space Occupied by Disconnect Drawing.

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ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric

General Electric Circuit Breakers (Spectra-Flex™ Cable Operators)

Fits Enclosure Depth C=8	C=10	C=12 or 16	Frame Size	Max Amp Rating	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
•	•	•	E150	150A	6.31	4.12
•	•	•	SE150	150A	6.31	4.12
	•	•	SF250	250A	10.12	4.12
		•	SG600	600A	10.09	5.50
		•	SK1200	1200A	15.50	8.25

Frame Size	Breaker Mechanism	Flange Mounting Handle	Operating Cable
E150	SCOM1A	SCH1	SC3L[1]
SE150/SF250	SCOM1EF	SCH1	SC3L[1]
SG600	SCOM1G	SCH1	SC3L[1]
SK1200	SCOM1K	SCH2K	SC3H[1]

[1]Operating Cables are available 3' to 10' lengths. In the table above, the number "3" in the part number indicates a 3' cable.

1. GE Spectra-Flex™ Operating Cables permit circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref “P”) needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 3" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Siemens I-T-E

I-T-E - Disconnect Switches (Max-Flex™ Operators)

Fits Enclosure Depth C=8"	C=10"	C=12" or 16"	Switches	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
•	•	•	MCS603R	30A	No Fuse	—	5.52	6.13
•	•	•	MCS603R	30A	30A-250V	H,K,R	8.11	6.13
•	•	•	MCS603R	30A	30A-600V	H,K,R	10.11	6.13
•	•	•	MCS603R	30A	30A-600V	J	8.48	6.13
•	•	•	MCS606R	60A	No Fuse	—	5.52	6.13
•	•	•	MCS606R	60A	60A-250V	H,K,R	7.86	6.13
•	•	•	MCS606R	60A	60A-600V	H,K,R	10.38	6.13
•	•	•	MCS606R	60A	60A-600V	J	8.36	6.13
•	•	•	MCS610R	100A	No Fuse	—	7.59	7.38
•	•	•	MCS610R	100A	100A-250V	H,K,R	11.85	7.38
•	•	•	MCS610R	100A	100A-600V	H,K,R	13.85	7.38
•	•	•	MCS610R	100A	100A-600V	J	10.60	7.38
•	•	•	MCS620R	200A	No Fuse	—	9.00	9.17
•	•	•	MCS620R	200A	200A-250V	H,K,R	14.70	9.17
•	•	•	MCS620R	200A	200A-600V	H,K,R	17.20	9.17
•	•	•	MCS620R	200A	200A-600V	J	13.32	9.17

Siemens I-T-E Max-Flex™ Operators (Circuit Breakers)

Complete Operator Mechanism	Amp Rating	Breaker Frame Size	Circuit Breaker Height "X"	Circuit Breaker Width "Y"	Circuit Breaker Type
FHOE036	125A	ED	6.34	3.00	ED2, ED4, ED6, HED4, HED6
FHOE036	125A	CED	9.58	3.00	CED6
FHOF036	250A	FD	9.50	4.50	FXD6-A, FD6-A, HFD6, FXD6-ETJ, HHFD6, HHFXD6
FHOF036	250A	CFD	14.25	4.50	CFD6, CFD6-ETI
FHOJ036	400A, 600A	JD, LD	11.00	7.50	JXD2, LXD6, JXD6, JD6, LD6, HJD6, HLD6, HHJD6, HHLD6, HHJXD6, HHLDX6, JXD6-ETI, LXD6-ETI
FHOJ036	400A, 600A	CJD, CLD	17.86	7.50	CJD6, CLD6, CJD6-ETI, CLD6-ETI
FHOLM036	800A	LMD	16.00	9.00	LMD6, LMXD6, HLMD6, HLMXD6, LMXD6-ET1
FHONO48	800A	MD	24.00	9.00	MD6, MXD6, HMD6, HMXD6, CMD6, MXD6-ETI, CMD6-ETI
FHONO48	1200A	ND	24.00	9.00	ND6, NXD6, HND6, HNXD6, CND6

Last three digits of operator mechanism part number denote cable length in inches.

- 48" cables are offered for ED,FD,JD/LD operators

Space Occupied By Disconnect

1. I-T-E Max-Flex™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref “P”) needed for line side conductors.
3. See Siemens I-T-E instructions for disconnect location limitations when using 36" or 48" Max-Flex™ cables.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Disconnect Switches

Fits Enclosure Depth				Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16					L	M	P	P	P
•	•	•	•	TCN-30	30A	No Fuse	—	3.80	6.84	3.69	6.03	10.56
•	•	•	•	TCF-30	30A	30A-250V	H, K, R	5.53	6.84	3.69	6.03	10.56
•	•	•	•	TCF-33	30A	30A-600V	H, K, R	8.15	6.84	3.69	6.03	10.56
•	•	•	•	TCF-33	30A	60A-250V	H, K, R	6.15	6.84	3.69	6.03	10.56
•	•	•	•	TCF-33	30A	30A-600V	J	5.53	6.84	3.69	6.03	10.56
•	•	•	•	TDN-60	60A	No Fuse	—	3.80	6.84	3.69	6.03	10.56
•	•	•	•	TDF-60	60A	30A-600V	H, K, R	8.15	6.84	3.69	6.03	10.56
•	•	•	•	TDF-60	60A	60A-250V	H, K, R	6.15	6.84	3.69	6.03	10.56
•	•	•	•	TDF-63	60A	60A-600V	H, K, R	8.65	6.84	3.69	6.03	10.56
•	•	•	•	TDF-63	60A	60A-600V	J	5.53	6.84	3.69	6.03	10.56
	•	•	•	TEN-10	100A	No Fuse	—	3.80	6.84	—	5.91	10.44
	•	•	•	TEF-10	100A	100A-250V	H, K, R	8.25	6.84	—	5.91	10.44
	•	•	•	TEF-10	100A	100A-600V	H, K, R	10.25	6.84	—	5.91	10.44
	•	•	•	TEF-10	100A	100A-600V	J	7.05	6.84	—	5.91	10.44
•	•	•	•	TC-1	30A	No Fuse	—	5.75	6.00	3.12	5.12	9.62
•	•	•	•	TC-2	30A	30A-250V	H, K, R	5.75	6.00	3.12	5.12	9.62
•	•	•	•	TC-3	30A	30A-600V	H, K, R	7.75	6.00	3.12	5.12	9.62
•	•	•	•	TC-3	30A	60A-250V	H, K, R	5.88	6.00	3.12	5.12	9.62
•	•	•	•	TC-3	30A	30A-600V	J	5.75	6.00	3.12	5.12	9.62
•	•	•	•	TD-1	60A	No Fuse	—	6.38	6.62	3.62	6.00	10.50
•	•	•	•	TD-2	60A	30A-600V	H, K, R	8.50	6.62	3.62	6.00	10.50
•	•	•	•	TD-2	60A	60A-250V	H, K, R	6.50	6.62	3.62	6.00	10.50
•	•	•	•	TD-3	60A	60A-600V	H, K, R	9.00	6.62	3.62	6.00	10.50
•	•	•	•	TD-3	60A	60A-600V	J	6.38	6.62	3.62	6.00	10.50
	•	•	•	TE-1	100A	No Fuse	—	4.75	8.38	—	5.75	10.25
	•	•	•	TE-2	100A	100A-250V	H, K, R	7.50	8.38	—	5.75	10.25
	•	•	•	TE-2	100A	100A-600V	H, K, R	9.50	8.38	—	5.75	10.25
	•	•	•	TE-2	100A	100A-600V	J	6.25	8.38	—	5.75	10.25
	•	•	•	TE-3	100A	200A-600V	J	13.75	8.38	—	5.75	10.25
		•	•	TF-1	200A	No Fuse	—	5.50	11.62	—	—	8.88
		•	•	TF-2	200A	200A-250V	H, K, R	11.50	11.62	—	—	8.88
		•	•	TF-2	200A	200A-600V	H, K, R	14.00	11.62	—	—	8.88
		•	•	TF-2	200A	200A-600V	J	10.12	11.62	—	—	8.88
		•	•	TF-3	200A	400A-600V	J	14.50	11.62	—	—	8.88

Square D Class 9422 Variable Depth Operators (Circuit Breakers)

Fits Enclosure Depth				Square D Type Number	Amp Rating	Frame Type	Space Occupied		When K=4.75	When K=7.09	When K=11.62
8	10	12	16				L	M	P	P	P
•	•	•	•	**RG-1**	75A	GJL	3.53	3.74	3.59	5.93	10.47
•	•	•	•	**RG-1**	100A	GJL	3.53	3.74	3.59	5.93	10.47
•	•	•	•	**RN-1**	100A	FAL, FHL	5.12	5.25	3.75	6.12	10.62
	•	•	•	**RP-1**	250A	KAL, KHL	7.12	5.62	4.25[1]	6.88	11.38
		•	•	**RR-1**	400A	LAL, LHL, Q4L	7.62	8.75	—	—	7.00

[1] Not recommended except with #1 or smaller line conductors.

Charts reference Space Occupied by Disconnect Drawing.

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1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Disconnect Switches (Cable Mechanism 9422-CFT30 and 9422A-1 Handle Mechanism)

Fits Enclosure Depth			Square D	Amp	Fuse	Fuse	Disconnect	Disconnect
C=8"	C=10"	C=12" or 16"	Type Number	Rating	Clip	Class	Height "X"	Width "Y"
•	•	•	TCN-30	30A	No Fuse	—	5.90	6.20
•	•	•	TCF-30	30A	30A-250V	H, K, R	7.50	6.20
•	•	•	TCF-33	30A	30A-600V	H, K, R	10.15	6.20
•	•	•	TCF-33	30A	60A-250V	H, K, R	8.15	6.20
•	•	•	TCF-33	30A	30A-600V	J	7.50	6.20
•	•	•	TDN-60	60A	No Fuse	—	5.90	6.20
•	•	•	TDF-60	60A	30A-600V	H, K, R	10.15	6.20
•	•	•	TDF-60	60A	60A-250V	H, K, R	8.15	6.20
•	•	•	TDF-63	60A	60A-600V	H, K, R	10.65	6.20
•	•	•	TDF-63	60A	60A-600V	J	7.5	6.20
	•	•	TEN-10	100A	No Fuse	—	5.90	6.20
	•	•	TEF-10	100A	100A-250V	H, K, R	10.35	6.20
	•	•	TEF-10	100A	100A-600V	H, K, R	12.35	6.20
	•	•	TEF-10	100A	100A-600V	J	10.35	6.20

Square D Class 9422 Cable Mechanism (Circuit Breakers)

Fits Enclosure Depth			Cable Type	Amp	Frame Type	Circuit Breaker	Circuit Breaker
C=8"	C=10"	C=12" or 16"	Switch	Rating		Height "X"	Width "Y"
•	•	•	9422 CGJ30	75A	GJL	4.75	3.50
•	•	•	9422 CEJ30	100A	GJL	4.75	3.50
•	•	•	9422 CFA30	100A	FAL, FHL	6.00	4.50
•	•	•	9422 CKA30	250A	KAL, KHL	8.00	4.50
		•	9422 CLA30	400A	LAL, LHL, Q4L	11.00	6.00

Use cable mechanism with circuit breaker and 9422-A1 handle mechanism
Cable operators are offered in 3', 5', and 10' lengths. Last 2 digits of part numbers above (30) are for 3' cables

Space Occupied By Disconnect Switch

1. Square D Cable System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select cable mechanism length based on disconnect location in enclosure. See Square D instructions for minimum cable bend radius.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)

Charts reference Space Occupied by Disconnect Drawing.

Technical references and DXF downloads available at www.hammfg.com

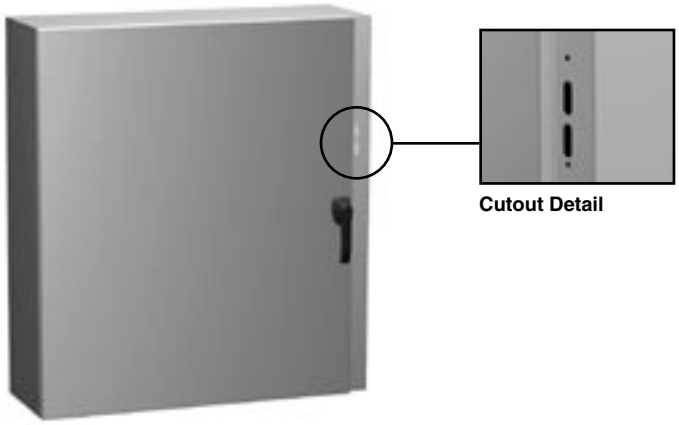
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EN4DSC Disconnect Enclosures - NEMA 4

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Handle Included

Panel Sold Separately

Application

Designed to house the following safety disconnect equipment:

- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers. Cable version for circuit breakers also available.
- **Allen Bradley** 1494V variable depth flange mounted disconnect switches and circuit breaker operators NEMA 4 rated. Will not accept Allen Bradley 1494F disconnect switches, 1494D circuit breaker operators or 1494V-R1, -R2, or -W2 operating handles).
- **Cutler Hammer** C361 variable depth flange mounted disconnect switches and C371 circuit breaker operators. Also Flex-Shaft™ handle mechanisms for circuit breakers. Use Cutler Hammer NEMA 4X rated operating handles to maintain NEMA 4X integrity.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth handles for disconnect switch and circuit breakers. Use handle for NEMA 4 rating.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also SpectraFlex™ cable operators for circuit breakers.
- **Square D** Class 9422 disconnect switches with flange mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange mounted variable depth operating mechanism or cable mechanisms for circuit breakers. SN4SS enclosures will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.

Standards

- UL 508 Type 3R, 4
- CSA Type 3R, 4
- **Complies with**
  - NEMA Type 3R, 4, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 or 16 gauge steel.
- Continuously welded seams.
- Larger sizes include door stiffeners.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the flange handle operating mechanism.
- Doors may be easily removed for modifications and are interchangeable.
- Door is secured with easily operated 2 or 3-point handle.
- Cover interlock bracket is welded to the door.
- Collar studs are provided for mounting inner panels.
- Removable inner panel is sold separately.
- Oil resistant gaskets are permanently secured.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.

Note:

- Disconnects and operating mechanisms are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are finished in recoatable smooth ANSI 61 grey powder coating.

Accessories

- Additional inner panels...*see page* ***434***
- Air conditioners...*see page* ***388-405***
- Blowers...*see page* ***407***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Filter fans...*see page* ***413-414***
- Heaters...*see page* ***418-420***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

Technical references and DXF downloads available at www.hammfg.com

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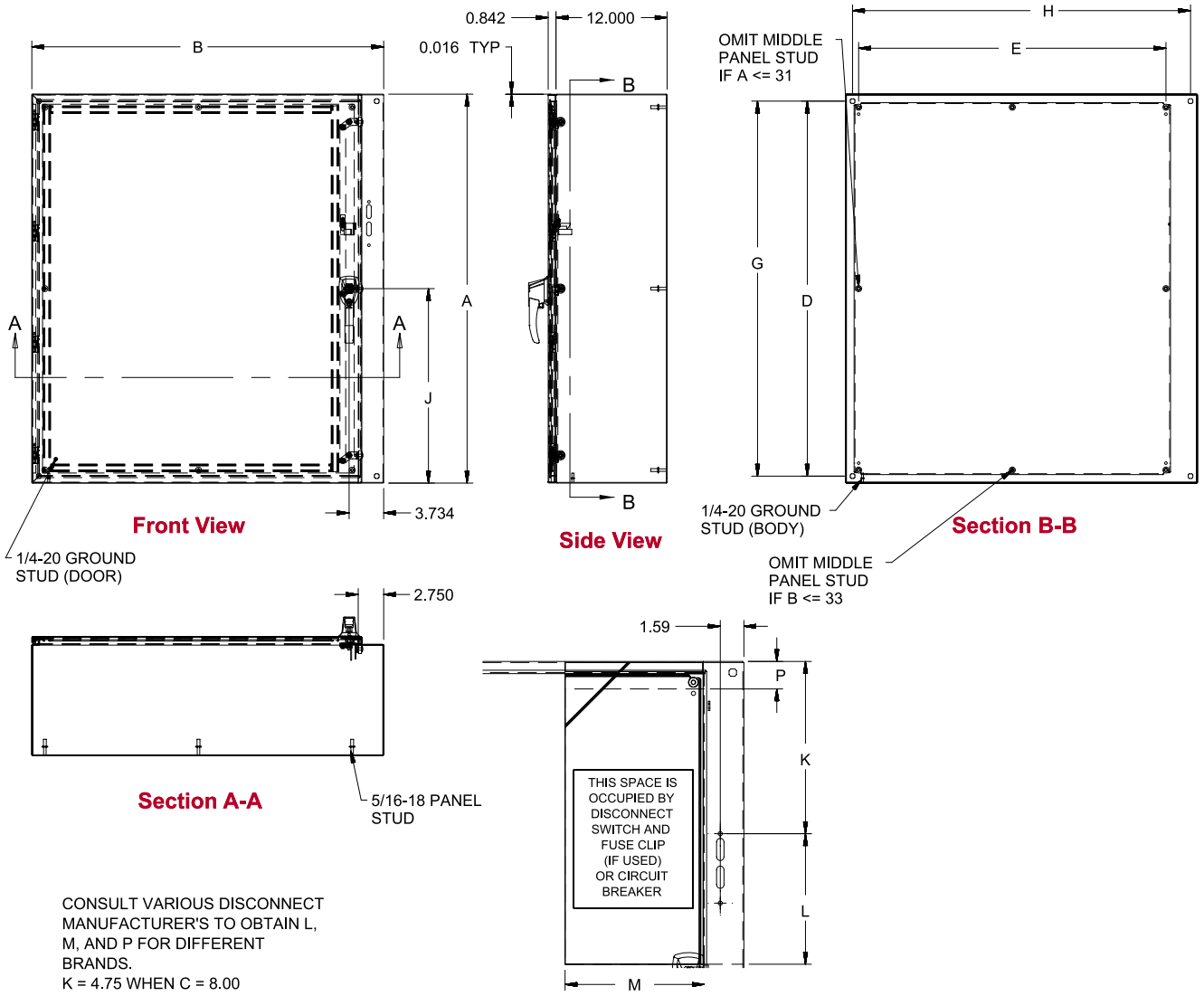
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EN4DSC Disconnect Enclosures - NEMA 4

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Disconnect Mounting Details

CONSULT VARIOUS DISCONNECT MANUFACTURER'S TO OBTAIN L, M, AND P FOR DIFFERENT BRANDS.
K = 4.75 WHEN C = 8.00
K = 11.62 WHEN C = 12.00
P = WIRING BEND SPACE WHEN DISCONNECT IS INSTALL.ED IN ENCLOSURE

ORDER PANELS SEPERATELY
ALL PANELS ARE 12 GA.

Part No.	Enclosure Size A x B x C	Door Gauge	Body Gauge	Optional Panel Part No.	Panel Size D x E	Mounting G x H	Latches Qty	Style	# Panel Studs	J
EN4DSC20228GY	20.00 x 22.00 x 8.00	14	16	EP2020	18.17 x 18.17	18.50 x 20.50	1	2-pt	4	5.00
EN4DSC24228GY	24.00 x 22.00 x 8.00	14	16	EP2420	22.17 x 18.17	22.50 x 20.50	1	2-pt	4	6.00
EN4DSC24268GY	24.00 x 26.00 x 8.00	14	16	EP2424	22.17 x 22.17	22.50 x 24.50	1	2-pt	4	6.00
EN4DSC30268GY	30.00 x 26.00 x 8.00	14	16	EP3024	28.17 x 22.17	28.50 x 24.50	1	2-pt	4	6.00
EN4DSC36268GY	36.00 x 26.00 x 8.00	14	16	EP3624	34.17 x 22.17	34.50 x 24.50	1	2-pt	6	6.00
EN4DSC36328GY	36.00 x 32.00 x 8.00	14	14	EP3630	34.17 x 28.17	34.50 x 30.50	1	2-pt	6	6.00
EN4DSC423212GY	42.00 x 32.00 x 12.00	14	14	EP4230	40.17 x 28.17	40.50 x 30.50	1	3-pt	6	21.00
EN4DSC423812GY	42.00 x 38.00 x 12.00	14	14	EP4236	40.17 x 34.17	40.50 x 36.50	1	3-pt	8	21.00
EN4DSC483812GY	48.00 x 38.00 x 12.00	14	14	EP4836	46.17 x 34.17	46.50 x 36.50	1	3-pt	8	24.00
EN4DSC603812GY	60.00 x 38.00 x 12.00	14	14	EP6036	58.17 x 34.17	58.50 x 36.50	1	3-pt	8	30.00

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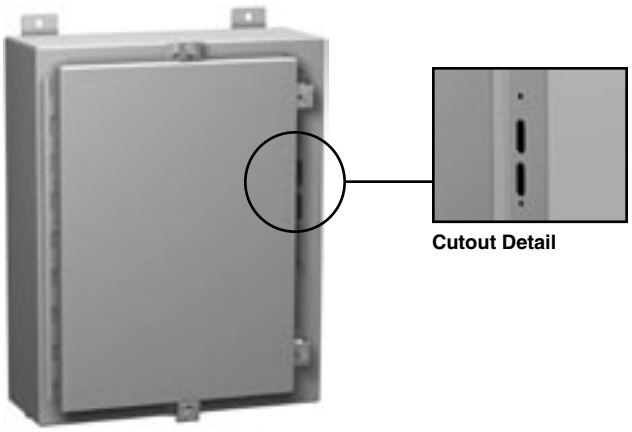
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1447SN4 Single Door Disconnect Enclosures - NEMA 4

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Cutout Detail

Inner Panel Included

Application

Designed to house the following safety disconnect equipment:

- **ABB Controls** flange-mounted variable depth operating mechanism for disconnect switches and circuit breakers. Cable version for circuit breakers also available.
- **Allen Bradley** 1494V variable depth flange mounted disconnect switches and circuit breaker operators NEMA 4 rated. Will not accept Allen Bradley 1494F disconnect switches, 1494D circuit breaker operators or 1494V-R1, -R2, or -W2 operating handles.
- **C-H Westinghouse** C361 variable depth flange mounted disconnect switches and C371 circuit breaker operators, and also Flex-Shaft™ handle mechanism for circuit breakers. Use Cutler Hammer NEMA 4 rated operating handles to maintain NEMA 4 integrity.
- **General Electric** Type STDA flange handles and variable depth operating mechanism for disconnect switches and circuit breakers. Also Spectra-Flex™ cable operators for circuit breakers.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth handles for disconnect switches and circuit breakers. Use handle for NEMA 4.
- **Square D** class 9422 disconnect switches with flange-mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange-mounted variable depth operating mechanisms or cable mechanisms for circuit breakers. SN4 enclosures will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.

Standards

- UL 508 Type 3R, 4
- CSA Type 3R, 4
- **Complies with**
  - NEMA Type 3R, 4, 12
  - JIC EGP-1-1967
  - IEC 60529, IP66
- Appropriate components are required to maintain these standards.

Construction

- Formed 14-gauge steel.
- Continuously welded seams.
- Larger sizes include door and body stiffeners.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the flange handle operating mechanism.
- Continuously hinged doors may be removed by pulling the stainless steel hinge pin.
- Door is secured with easily operated stainless steel clamps.
- Cover interlock bracket is welded to the door.
- Collar studs are provided for mounting inner panels.
- A removable 12 gauge inner panel is included.
- Oil resistant gaskets are permanently secured and mechanically retained.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided for the inside of the door.

Note:

- Disconnects and operating mechanisms are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Air conditioners...*see page* ***389***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Floor stand kits...*see page* ***448***
- Heaters...*see page* ***418-420***
- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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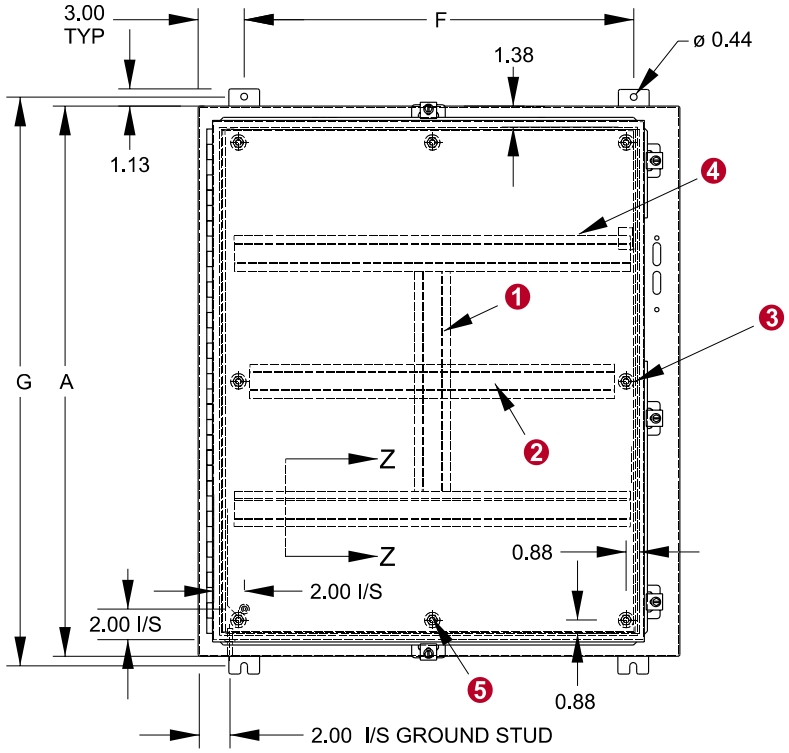
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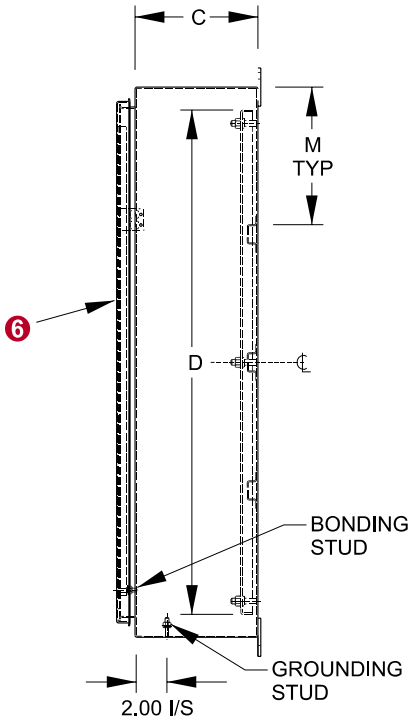
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1447SN4 Single Door Disconnect Enclosures - NEMA 4

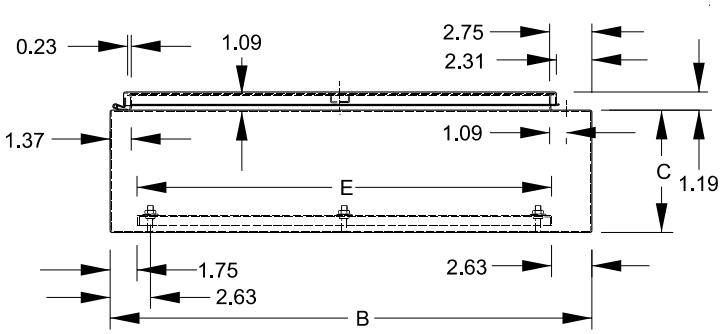
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



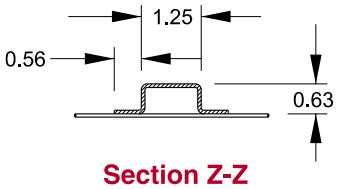
Front View



Formed View



Top View



Section Z-Z

When A=	M=
36	9.00
42	9.88
48	11.38
60	14.38

❶ Vertical body stiffener req'd on 1447SN4G8 only.
❷ Omit center body stiffener if A is less than 41".
❸ Omit 2 middle studs if A is less than 31".
❹ Omit body stiffeners if B is 28" or less
❺ Omit 2 middle studs if B is less than 32".
❻ Omit door stiffener if B is 32" or less except if AxB is 42"x31.38".

Note: Number of door clamps varies to enclosure size.

Part No.	Panel Size A	B	C	D	E	Mounting Centers F	G	Ship Wt. lbs.
1447SN4B8	24	21.38	8	21	17	15.38	25.25	60
1447SN4C8	24	25.38	8	21	21	19.38	25.25	73
1447SN4E8	30	25.38	8	27	21	19.38	31.25	90
1447SN4F8	36	25.38	8	33	21	19.38	37.25	100
1447SN4G8	36	31.38	8	33	27	25.38	37.25	123
1447SN4H12	42	31.38	12	39	27	25.38	43.25	152
1447SN4J12	42	37.38	12	39	33	31.38	43.25	200
1447SN4K12	48	37.38	12	45	33	31.38	49.25	220
1447SN4L12	60	37.38	12	57	33	31.38	61.25	265

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

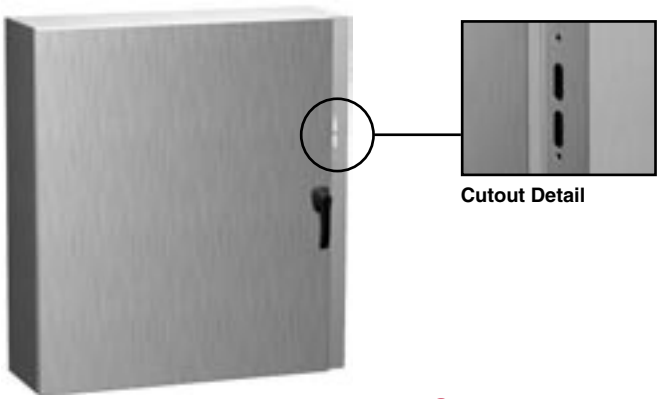
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EN4DSC 304 Stainless Steel Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Cutout Detail

Handle Included

Panel Sold Separately

Application

Designed to house the following safety disconnect equipment:

- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers. Cable version for circuit breakers also available.
- **Allen Bradley** 1494V variable depth flange mounted disconnect switches and circuit breaker operators NEMA 4 rated. Will not accept Allen Bradley 1494F disconnect switches, 1494D circuit breaker operators or 1494V-R1, -R2, or -W2 operating handles).
- **Cutler Hammer** C361 variable depth flange mounted disconnect switches and C371 circuit breaker operators. Also Flex-Shaft™ handle mechanisms for circuit breakers. Use Cutler Hammer NEMA 4X rated operating handles to maintain NEMA 4X integrity.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth handles for disconnect switch and circuit breakers. Use handle for NEMA 4 rating.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also SpectraFlex™ cable operators for circuit breakers.
- **Square D** Class 9422 disconnect switches with flange mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange mounted variable depth operating mechanism or cable mechanisms for circuit breakers. SN4SS enclosures will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.

Standards

- UL 508 Type 3R, 4 and 4X
- CSA Type 3R, 4 and 4X
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 or 16 gauge type 304 stainless steel.
- Continuously welded seams.
- Larger sizes include door stiffeners.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the flange handle operating mechanism.
- Doors may be easily removed for modifications and are interchangeable.
- Door is secured with easily operated 2 or 3 point handle.
- Cover interlock bracket is welded to the door.
- Collar studs are provided for mounting inner panels.
- Removable inner panel is sold separately.
- Oil resistant gaskets are permanently secured.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Disconnects and operating mechanisms are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are natural, brushed stainless steel.

Accessories

- Additional inner panels...*see page* ***434***
- Air conditioners...*see page* ***389***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

Note:

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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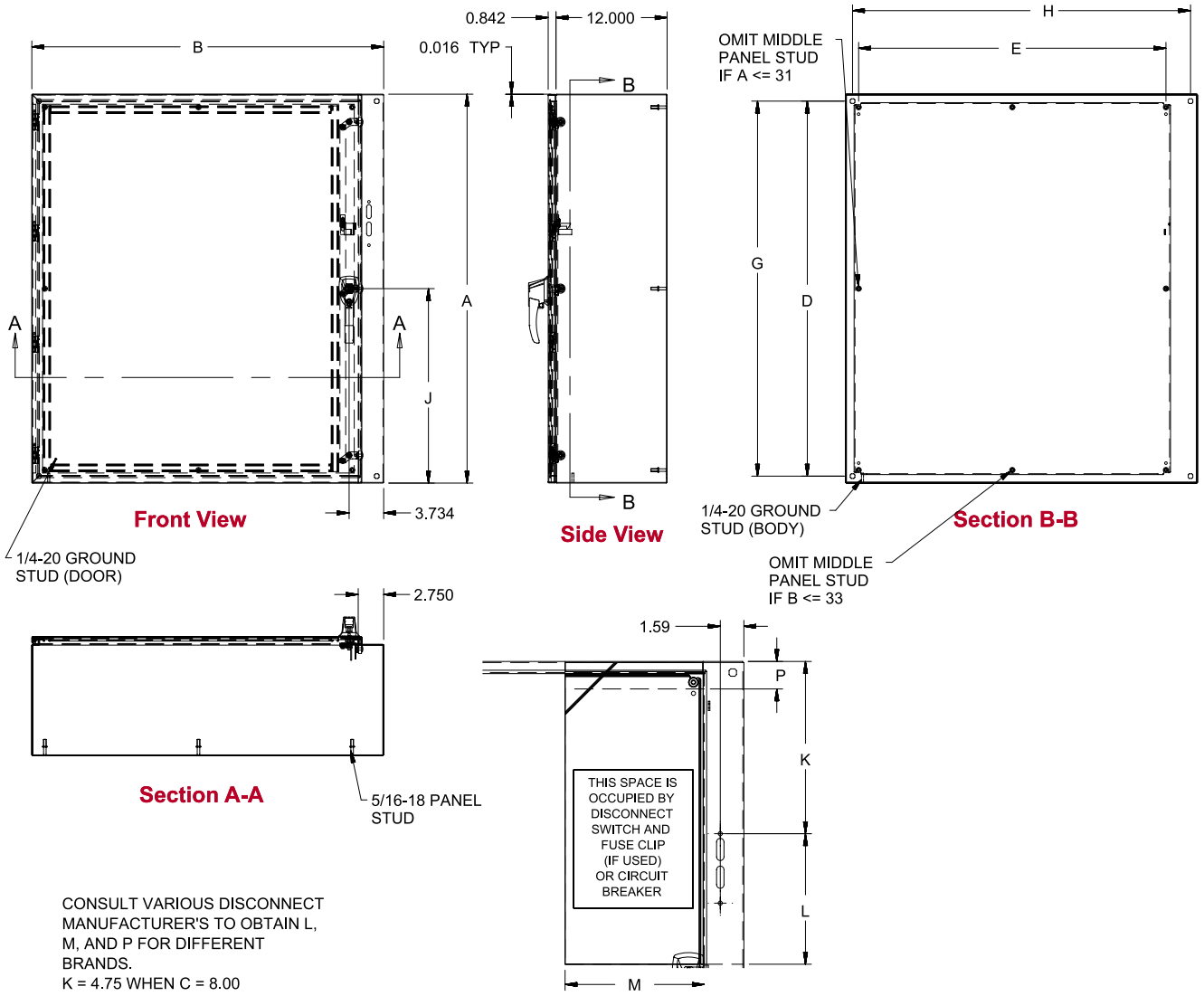
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EN4DSC 304 Stainless Steel Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Disconnect Mounting Details

CONSULT VARIOUS DISCONNECT MANUFACTURER'S TO OBTAIN L, M, AND P FOR DIFFERENT BRANDS.
K = 4.75 WHEN C = 8.00
K = 11.62 WHEN C = 12.00
P = WIRING BEND SPACE WHEN DISCONNECT IS INSTALL.ED IN ENCLOSURE

ORDER PANELS SEPERATELY
ALL PANELS ARE 12 GA.

Part No.	Enclosure Size A x B x C	Door Gauge	Body Gauge	Optional Panel Part No.	Panel Size D x E	Mounting G x H	Latches qty	Latches style	# Panel Studs	J
EN4DSC20228SS	20.00 x 22.00 x 8.00	14	16	EP2020	18.17 x 18.17	18.50 x 20.50	1	2-pt	4	5.00
EN4DSC24228SS	24.00 x 22.00 x 8.00	14	16	EP2420	22.17 x 18.17	22.50 x 20.50	1	2-pt	4	6.00
EN4DSC24268SS	24.00 x 26.00 x 8.00	14	16	EP2424	22.17 x 22.17	22.50 x 24.50	1	2-pt	4	6.00
EN4DSC30268SS	30.00 x 26.00 x 8.00	14	16	EP3024	28.17 x 22.17	28.50 x 24.50	1	2-pt	4	6.00
EN4DSC36268SS	36.00 x 26.00 x 8.00	14	16	EP3624	34.17 x 22.17	34.50 x 24.50	1	2-pt	6	6.00
EN4DSC36328SS	36.00 x 32.00 x 8.00	14	14	EP3630	34.17 x 28.17	34.50 x 30.50	1	2-pt	6	6.00
EN4DSC423212SS	42.00 x 32.00 x 12.00	14	14	EP4230	40.17 x 28.17	40.50 x 30.50	1	3-pt	6	21.00
EN4DSC423812SS	42.00 x 38.00 x 12.00	14	14	EP4236	40.17 x 34.17	40.50 x 36.50	1	3-pt	8	21.00
EN4DSC483812SS	48.00 x 38.00 x 12.00	14	14	EP4836	46.17 x 34.17	46.50 x 36.50	1	3-pt	8	24.00
EN4DSC603812SS	60.00 x 38.00 x 12.00	14	14	EP6036	58.17 x 34.17	58.50 x 36.50	1	3-pt	8	30.00

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

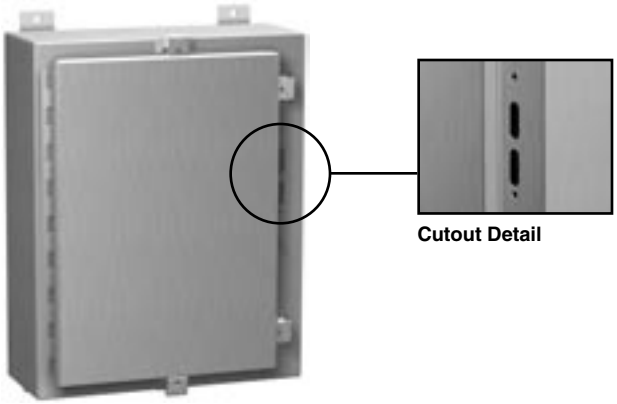
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1447SN4SS 304 Stainless Steel Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Cutout Detail

Inner Panel Included

Application

Designed to house the following safety disconnect equipment:

- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers. Cable version for circuit breakers also available.
- **Allen Bradley** 1494V variable depth flange mounted disconnect switches and circuit breaker operators NEMA 4 rated. Will not accept Allen Bradley 1494F disconnect switches, 1494D circuit breaker operators or 1494V-R1, -R2, or -W2 operating handles).
- **Cutler Hammer** C361 variable depth flange mounted disconnect switches and C371 circuit breaker operators. Also Flex-Shaft™ handle mechanisms for circuit breakers. Use Cutler Hammer NEMA 4X rated operating handles to maintain NEMA 4X integrity.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth handles for disconnect switch and circuit breakers. Use handle for NEMA 4 rating.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also SpectraFlex™ cable operators for circuit breakers.
- **Square D** Class 9422 disconnect switches with flange mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange mounted variable depth operating mechanism or cable mechanisms for circuit breakers. SN4SS enclosures will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.

Standards

- UL 508 Type 3R, 4 and 4X
- CSA Type 3R, 4 and 4X
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 gauge type 304 stainless steel.
- Continuously welded seams.
- Larger sizes include door and body stiffeners.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the flange handle operating mechanism.
- Continuously hinged doors may be removed by pulling the stainless steel hinge pin.
- Door is secured with easily operated stainless steel clamps.
- Cover interlock bracket is welded to the door.
- Collar studs are provided for mounting inner panels.
- A removable 12 gauge inner panel is included.
- Oil resistant gaskets are permanently secured and mechanically retained.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided for the inside of the door.

Note:

- Disconnects and operating mechanisms are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are natural, brushed stainless steel.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Air conditioners...*see page* ***389***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Floor stand kits...*see page* ***448***
- Heaters...*see page* ***418-420***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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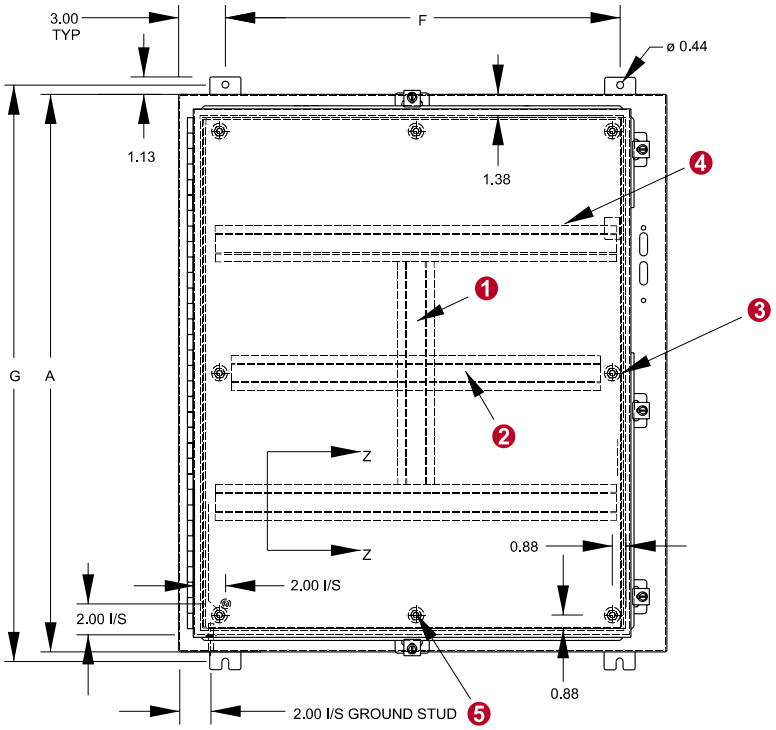
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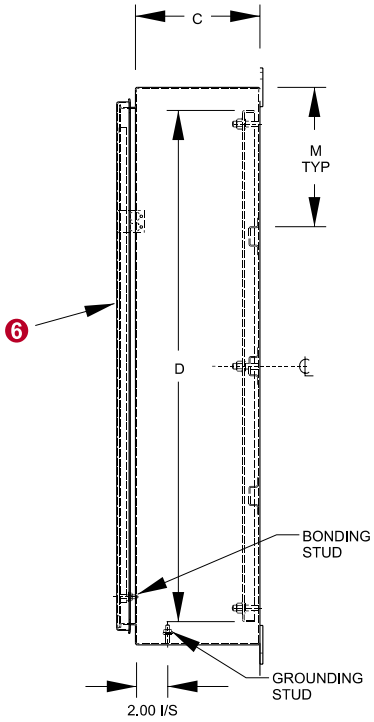
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1447SN4SS 304 Stainless Steel Disconnect Enclosures - NEMA 4, 4X

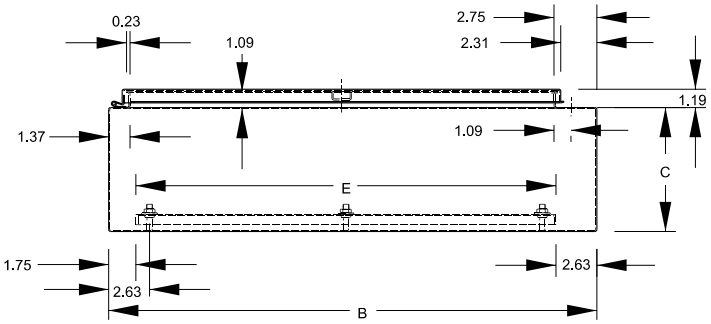
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



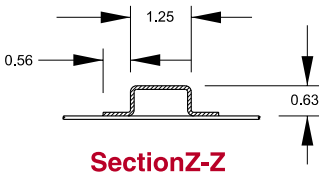
Front View



Cross Section



Top View



SectionZ-Z

When A=	M=
36	9.00
42	9.88
48	11.38
60	14.38

❶ Vertical body stiffener req'd on 1447SN4SSG8 only.
❷ Omit center body stiffener if A is less than 41".
❸ Omit 2 middle studs if A is less than 31".
❹ Omit body stiffeners if B is 28" or less
❺ Omit 2 middle studs if B is less than 32".
❻ Omit door stiffener if B is 32" or less except if AxB is 42"x31.38".

Note: Number of door clamps varies to enclosure size.

Part No.	Panel Size					Mounting Centers		Ship Wt.
	A	B	C	D	E	F	G	lbs.
1447SN4SSB8	24	21.38	8	21	17	15.38	25.25	60
1447SN4SSC8	24	25.38	8	21	21	19.38	25.25	73
1447SN4SSE8	30	25.38	8	27	21	19.38	31.25	90
1447SN4SSF8	36	25.38	8	33	21	19.38	37.25	100
1447SN4SSG8	36	31.38	8	33	27	25.38	37.25	123
1447SN4SSH12	42	31.38	12	39	27	25.38	43.25	152
1447SN4SSJ12	42	37.38	12	39	33	31.38	43.25	200
1447SN4SSK12	48	37.38	12	45	33	31.38	49.25	220
1447SN4SSL12	60	37.38	12	57	33	31.38	61.25	265

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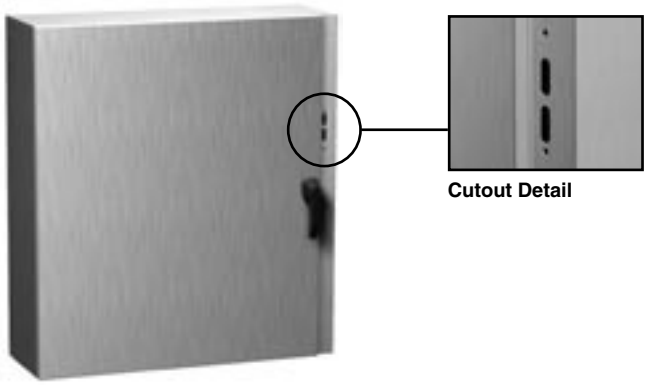
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EN4DSC 316 Stainless Steel Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Handle Included

Panel Sold Separately

Application

Designed to house the following safety disconnect equipment:

- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers. Cable version for circuit breakers also available.
- **Allen Bradley** 1494V variable depth flange mounted disconnect switches and circuit breaker operators NEMA 4 rated. Will not accept Allen Bradley 1494F disconnect switches, 1494D circuit breaker operators or 1494V-R1, -R2, or -W2 operating handles).
- **Cutler Hammer** C361 variable depth flange mounted disconnect switches and C371 circuit breaker operators. Also Flex-Shaft™ handle mechanisms for circuit breakers. Use Cutler Hammer NEMA 4X rated operating handles to maintain NEMA 4X integrity.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth handles for disconnect switch and circuit breakers. Use handle for NEMA 4 rating.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also SpectraFlex™ cable operators for circuit breakers.
- **Square D** Class 9422 disconnect switches with flange mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange mounted variable depth operating mechanism or cable mechanisms for circuit breakers. SN4SS enclosures will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.

Standards

- UL 508 Type 3R, 4 and 4X
- CSA Type 3R, 4 and 4X
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP66
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 or 16 gauge type 316 stainless steel.
- Continuously welded seams.
- Larger sizes include door stiffeners.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the flange handle operating mechanism.
- Doors may be easily removed for modifications and are interchangeable.
- Door is secured with easily operated 2 or 3 point handle.
- Cover interlock bracket is welded to the door.
- Collar studs are provided for mounting inner panels.
- Removable inner panel is sold separetely.
- Oil resistant gaskets are permanently secured.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.

Note:

- Disconnects and operating mechanisms are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are natural, brushed stainless steel.

Accessories

- Additional inner panels...*see page* ***434***
- Air conditioners...*see page* ***389***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Heaters...*see page* ***418-420***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

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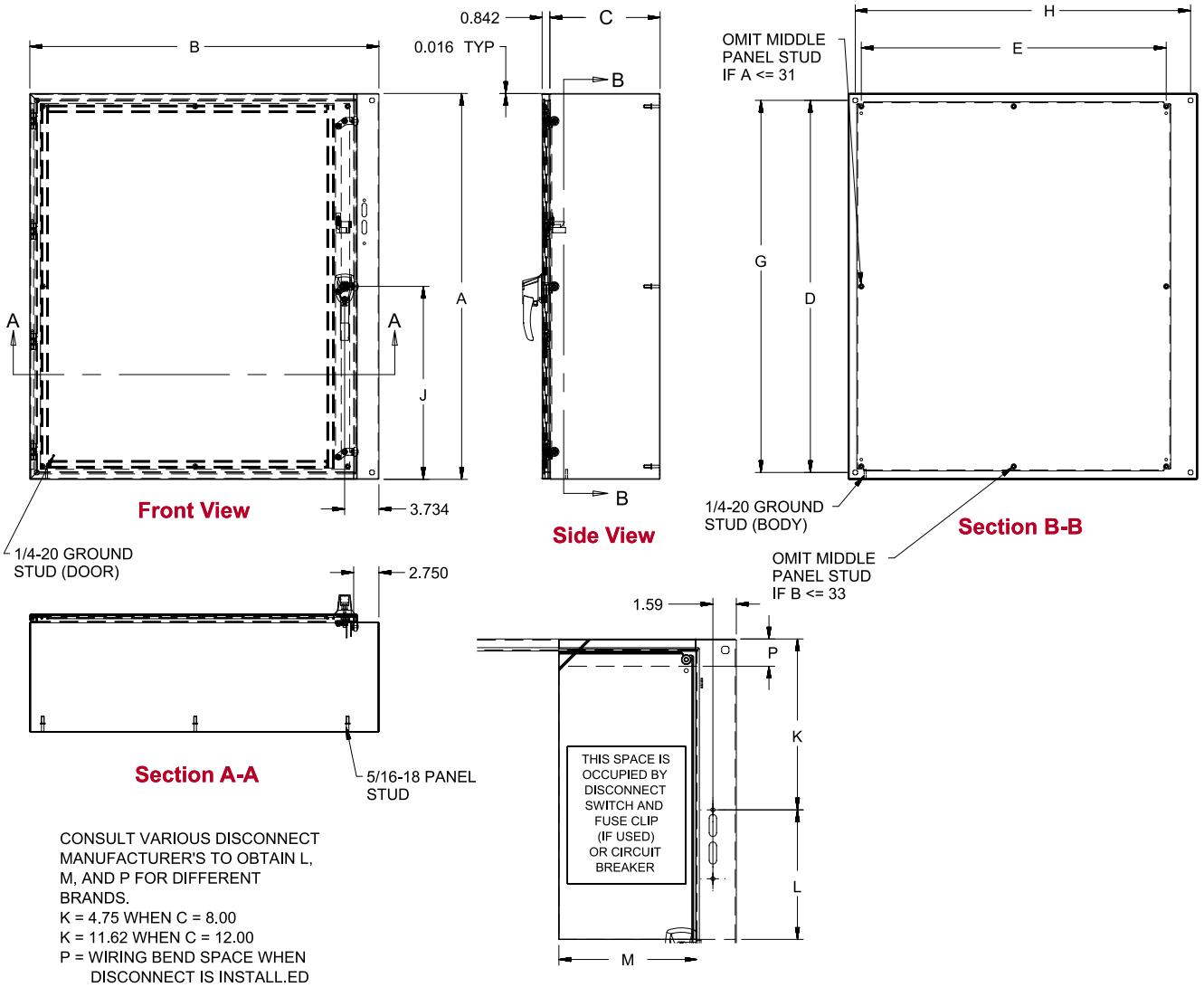
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EN4DSC 316 Stainless Steel Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



CONSULT VARIOUS DISCONNECT MANUFACTURER'S TO OBTAIN L, M, AND P FOR DIFFERENT BRANDS.
K = 4.75 WHEN C = 8.00
K = 11.62 WHEN C = 12.00
P = WIRING BEND SPACE WHEN DISCONNECT IS INSTALL.ED IN ENCLOSURE

ORDER PANELS SEPERATELY
ALL PANELS ARE 12 GA.

Part No.	Enclosure Size A x B x C	Door Gauge	Body Gauge	Optional Panel Part No.	Panel Size D x E	Mounting G x H	Latches qty	Latches style	# Panel Studs	J
EN4DSC20228S16	20.00 x 22.00 x 8.00	14	16	EP2020	18.17 x 18.17	18.50 x 20.50	1	2-pt	4	5.00
EN4DSC24228S16	24.00 x 22.00 x 8.00	14	16	EP2420	22.17 x 18.17	22.50 x 20.50	1	2-pt	4	6.00
EN4DSC24268S16	24.00 x 26.00 x 8.00	14	16	EP2424	22.17 x 22.17	22.50 x 24.50	1	2-pt	4	6.00
EN4DSC30268S16	30.00 x 26.00 x 8.00	14	16	EP3024	28.17 x 22.17	28.50 x 24.50	1	2-pt	4	6.00
EN4DSC36268S16	36.00 x 26.00 x 8.00	14	16	EP3624	34.17 x 22.17	34.50 x 24.50	1	2-pt	6	6.00
EN4DSC36328S16	36.00 x 32.00 x 8.00	14	14	EP3630	34.17 x 28.17	34.50 x 30.50	1	2-pt	6	6.00
EN4DSC423212S16	42.00 x 32.00 x 12.00	14	14	EP4230	40.17 x 28.17	40.50 x 30.50	1	3-pt	6	21.00
EN4DSC423812S16	42.00 x 38.00 x 12.00	14	14	EP4236	40.17 x 34.17	40.50 x 36.50	1	3-pt	8	21.00
EN4DSC483812S16	48.00 x 38.00 x 12.00	14	14	EP4836	46.17 x 34.17	46.50 x 36.50	1	3-pt	8	24.00
EN4DSC603812S16	60.00 x 38.00 x 12.00	14	14	EP6036	58.17 x 34.17	58.50 x 36.50	1	3-pt	8	30.00

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Single Door Disconnect Enclosures - NEMA 4, 4X

Selection Guide

Hammond Series		1447SN4 & 1447SN4SS	EN4DCS all versions
ABB Controls	**Disconnect Switch**	Flange operated switch (fusible or non-fusible)	
		Shaft: 8-12" dp enclosures, use DSFHS-12; 16" dp enclosures, use DSFHS-17	
		Handle: DSFHN-HS4	Handle: n/a
		Door Hardware: n/a	
	Circuit Breaker	Circuit breaker: ABB	
		Operating Mechanism: see ABB chart	
		Shaft: 8-12" dp enclosures, use K7FHD-S12; 16" dp enclosures, use K7FHD-S17	
		Handle: K7FHD-HS4	Handle: n/a
		Door Hardware: n/a	
Allen Bradley	**1494V Flange Disconnect Switch**	Disconnect switch and operating mechanism: Bulletin 1494V	
		Handle: Bulletin 1494V-W1	Handle: n/a
		Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2 (except for Hammond part # 1447S46L12, use 1494V-RB2 (2))	
		Trailer fuse block kit (if required): Bulletin 1494V	
		Fuse kit (if required)	
		Line and load connectors (if required)	
		Door Hardware: n/a	
	1494V Flange Circuit Breaker	Circuit breaker: C-H Westinghouse	
		Operating mechanism: Bulletin 1494V	
		Handle: Bulletin 1494V-W11	Handle: n/a
		Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2	
		Door Hardware: n/a	
Cutler Hammer	**Type C361 Disconnect Switch**	Disconnect switch and operating mechanism	
		Handle: C361-H2 or H4	Handle: n/a
		Door Hardware: n/a	
	Type C371 Circuit Breaker	Circuit breaker: C-H Westinghouse	
		Operating mechanism	
		Handle: 150 amp, use C371H2 or H4; 250-600 amp, use C371H6 or H8	Handle: n/a
		Door Hardware: n/a	
	C-H Westinghouse Circuit Breaker w/FlexShaft	Circuit breaker	
		Complete Flex-Shaft handle mechanism	
		Door Hardware: n/a	
General Electric	**Type STDA Flange Disconnect Switch**	Disconnect switch Type QMR or QMW	
		Handle: STDA1X	Handle: n/a
		Fuse kit (if required)	
		Variable depth operating mechanism	
		Door Hardware: n/a	
	Type STDA Flange Circuit Breaker	Circuit breaker	
		Handle: STDA1X	Handle: n/a
		Variable depth operating mechanism	
		Door Hardware: n/a	
	Circuit Breaker w/ SpectraFlex	Circuit breaker	
		Flange Mt. Handle: 150-600 amp, use STDA1X; SK1200, use STDA3X	Handle: n/a
		Breaker mounted mechanism.	
		Operating cable	
		Door Hardware: n/a	
I-T-E Siemens	**Max-Flex Flange Disconnect Switch**	Disconnect switch: MCS	
		Fuse Kit (if required)	
		Handle: Flange mount FHOHS4	Handle: n/a
		Switch operator mechanism	
		Operating cable (standard 36.0")	
		Door Hardware: n/a	
	Max-Flex Flange Circuit Breaker	Circuit breaker	
		Pressure wire connectors	
		Handle: Flange mount FHOH4	Handle: n/a
		Circuit breaker operator mechanism	
		Operating cable: standard 36"	
		Door Hardware: n/a	
Square D	**Class 9422 Disconnect Switch**	Disconnect switch and operating mechanism 9422	
		Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2	Handle: n/a
		Door Hardware: n/a	
	Class 9422 Circuit Breaker	Circuit breaker	
		Operating mechanism: Class 9422	
		Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2	Handle: n/a
		Door Hardware: n/a	
	Class 9422 "T" Disconnect Switch w/ cable mechanism	Disconnect switch and operating mechanism 9422, Type T	
		Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2	Handle: n/a
		Cable mechanism: Class 9422 CFT_O - 3, 5, or 10 foot	
		Door Hardware: n/a	
	Circuit Breaker w/cable mechanism	Circuit breaker: Square D	
		Handle: 1447SN4 use A-1 or A-2; 1447SN4SS use A-2	Handle: n/a
		Door Hardware: n/a	

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Space Occupied by Disconnect

Note: "K" = 8.62 when "C" = 8.00
"K" = 11.62 when "C" = 12.00
"P" = Wiring Space

Disconnects will occupy space on panel shown by dimensions "K", "L" and "M". Wiring space "P" is available when disconnect is installed in the enclosure.

*The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing not responsible for dimensional accuracy.

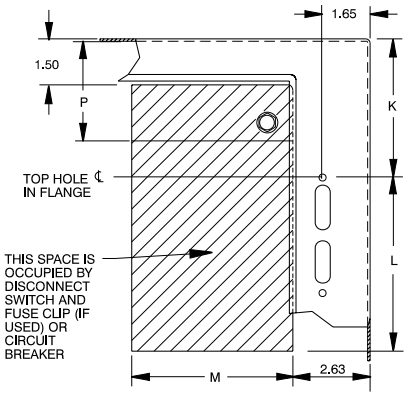


ABB Controls

ABB Controls Disconnect Switches (Flange Mounted Operators)

Fits Enclosure Depth 8	Fits Enclosure Depth 12	ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	**OETL-NF30-F**	30A	No Fuse	—	4.45	3.78	10.28	13.28
•	•	**OETL-NF60-F**	60A	No Fuse	—	4.86	3.78	10.09	13.09
•	•	**OETL-NF100-F**	100A	No Fuse	—	4.86	4.78	9.53	12.53
•	•	**OETL-NF175-F**	175A	No Fuse	—	7.30	6.49	7.28	10.28
•	•	**OETL-NF200-F**	200A	No Fuse	—	7.36	7.28	7.28	10.28
•	•	**OESA-F30J6-F**	30A	30A-600V	J	4.28	6.58	8.61	11.61
•	•	**OESA-F60J6-F**	60A	60A-600V	J	4.28	6.26	8.61	11.61
•	•	**OESA-F100J6-F**	100A	100A-600V	J [1]	6.54	7.65	8.17	11.17
			200A [2]						

[2] 200 A available by using non-fusible 200A switch and a trailing fuse block. (consult ABB)

ABB Controls Circuit Breakers (Flange Mounted Operators)

Fits Enclosure Depth 8	Fits Enclosure Depth 12	ABB Mechanism	Amp Rating	Fuse Type	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	**FHD-M**	150A	D	6.92	3.94	9.17	12.17
•	•	**FHF-M**	15A-225A	E/Q	5.98	4.23	7.72	10.72
•	•	**FHF-M**	225A	Frame	7.44	4.23	7.72	10.72
	•	**FHJ-M**	400A	J	9.71	5.62	—	8.77
	•	**FHM-M**	600A	L	8.28	11.26	—	8.28
	•	**FHM-M**	800A	M	10.11	11.26	—	7.87

Fits Enclosure Depth 8	Fits Enclosure Depth 12	ISOMAX Circuit Breaker	Amp Rating	Operating Mechanism	Fuse Type	Space Occupied L	Space Occupied M	When K=4.75 P	When K=7.09 P
•	•	**S1N100TL**	100A	K2FHD-M	S1	5.30	4.60	9.13	12.13
	•	**S3N150TW**	150A	K3FHD-M	S3	6.67	5.02		11.53
	•	**S3N225TW**	225A	K3FHD-M	S3	6.67	5.02		11.53
	•	**S4N250BW**	250A	K4FHD-M	S4	8.45	5.02		10.00
	•	**S5N400TW**	400A	K5FHD-M	S5	8.45	6.40		10.00
	•	**S6N600TW**	600A	K6FHD-M	S6	8.33	10.00		9.33
	•	**S6N800TW**	800A	K6FHD-M	S6	8.33	10.00		9.33

Charts reference Space Occupied by Disconnect Drawing.

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Allen Bradley

Allen Bradley 1494V Disconnect Switches

Fits Enclosure Depth 8	Fits Enclosure Depth 12	Alan Bradley Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	DS30	30A	No Fuse	—	3.88	6.62	6.75	9.75
•	•	DS30	30A	30A-250V	H,K,R	5.25	6.62	6.75	9.75
•	•	DS30	30A	30A-600V	H,K,R	8.00	6.62	6.75	9.75
•	•	DS30	30A	30A-600V	J	5.25	6.62	6.75	9.75
•	•	DS30	30A	60A-250V	H,K	6.00	6.62	6.75	9.75
•	•	DS30	30A	60A-600V	H,K	8.50	6.62	6.75	9.75
•	•	DS30	30A	60A-600V	J	5.38	6.62	6.75	9.75
•	•	DS60	60A	No Fuse	—	3.88	6.62	6.62	9.62
•	•	DS60	60A	60A-250V	H,K,R	6.00	6.62	6.62	9.62
•	•	DS60	60A	60A-600V	H,K,R	8.50	6.62	6.62	9.62
•	•	DS60	60A	60A-600V	J	5.38	6.62	6.62	9.62
•	•	DS60	60A	30A-600V	H,K,R	8.00	6.62	6.62	9.62
•	•	DS60	60A	100A-250V	H,K	8.50	6.62	6.62	9.62
•	•	DS60	60A	100A-600V	H,K	10.50	6.62	6.62	9.62
•	•	DS60	60A	100A-600V	J	7.25	6.62	6.62	9.62
•	•	DS100[1]	100A	No Fuse	—	3.88	6.62	6.44	9.62
•	•	DS100[1]	100A	100A-250V	H,K,R	8.12	6.62	6.44	9.62
•	•	DS100[1]	100A	100A-600V	H,K,R	10.12	6.62	6.44	9.62
•	•	DS100[1]	100A	100A-600V	J	6.88	6.62	6.44	9.62
•	•	DS100[1]	100A	60A-600V	H,K,R	10.12	6.62	6.44	9.62
•	•	DS100[1]	100A	60A-600V	J	8.88	6.62	6.44	9.62
	•	DS200[1]	200A	No Fuse	—	4.75	7.88	—	8.12
	•	DS200[1]	200A	200A-250V	H,K,R	10.88	7.88	—	8.12
	•	DS200[1]	200A	200A-600V	H,K,R	13.38	7.88	—	8.12
	•	DS200[1]	200A	200A-600V	J	9.50	7.88	—	8.12
	•	DS200[1]	200A	100A-600V	H,K,R	12.00	7.88	—	8.12
	•	DS200[1]	200A	100A-600V	J	8.75	7.88	—	8.12

[1]Series B
[2]"M" dimension does not allow for auxillary switches.

Allen Bradley 1494V Circuit Breakers

Fits Enclosure Depth 8	Fits Enclosure Depth 12	Allen Bradley Type No.	Amp Rating	Fuse Type	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	M40	15A to 150A	C-H Westinghouse Circuit Breakers EHD,FD,FDB,FDC,HFD,HMCP	5.00	4.50[1]	8.12	11.12
	•	M50	70A to 250A	C-H Westinghouse Circuit Breakers JD,JDB,JDC,HJD,HMCP	9.75	4.75[1]	—	10.62
	•	M60	100A to 400A	C-H Westinghouse Circuit Breakers KD,KDB,DK,HKD,HMCP	9.69	6.12[1]	—	10.50

[1]"M" dimension does not allow for auxiliary switch
Charts reference Space Occupied by Disconnect Drawing.

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer

Cutler Hammer C361 Disconnect Switches

Fits Enclosure Depth 8	Fits Enclosure Depth 12	Cutler Hammer Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	C361NC	30A	No Fuse	—	5.75	7.43	7.31	10.31
•	•	C361SC21	30A	30A-250V	H, K, R	8.38	7.43	7.31	10.31
•	•	C361SC61	30A	60A-250V	H, K, R	8.38	7.43	7.31	10.31
•	•	C361SC61	30A	30A-600V	H, J, K, R	8.38	7.43	7.31	10.31
•	•	C361ND	60A	No Fuse	—	5.75	7.43	7.31	10.31
•	•	C361SD22	60A	60A-250V	H, K, R	8.38	7.43	7.31	10.31
•	•	C361SD22	60A	30A-600V	J	8.38	7.43	7.31	10.31
•	•	C361SD62	60A	30A-600V	H, K, R	8.38	7.43	7.31	10.31
•	•	C361SD62	60A	60A-600V	J	8.38	7.43	7.31	10.31
•	•	C361NE	100A	No Fuse	—	5.56	8.95	7.47	9.91
•	•	C361SE263	100A	100A-250V	H, K, R	10.31	8.95	7.47	9.91
•	•	C361SE263	100A	100A-600V	H, K, R	10.31	8.95	7.47	9.91
•	•	C361SE263	100A	100A-600V	J	10.31	8.95	7.47	9.91
[1, 2]	[2]	C361NF	200A	No Fuse	—	13.06	10.00	4.94	7.94
[1, 2]	[2]	C361SF264	200A	200A-250V	H, K, R	13.06	10.00	4.94	7.94
[1, 2]	[2]	C361SF264	200A	200A-600V	H, J, K, R	13.06	10.00	4.94	7.94

[1]Wire bend space "P" does not allow the use of maximum cable size in 8" deep enclosures.
[2]200A switch should be installed in enclosures with an "A" dimension of 30" or greater.

Cutler Hammer C371 Circuit Breaker Operators (C-H Westinghouse Circuit Breakers)

Fits Enclosure Depth 8	Fits Enclosure Depth 12	Allen Bradley Type No.	Amp Rating	Fuse Type	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	C371E	150A	F Frame EHD,FDB,FD,HFD,FDC	6.00	5.50	8.44	11.44
•	•	C371E	150A	F Frame HMCP	6.00	5.50	8.44	11.44
	•	C371F	250A	J Frame JDB,JD,HJD,JDC	8.94	8.00	—	11.25
	•	C371F	250A	J Frame HMCP	10.94	8.00	—	11.25
	•	C371F	400A	K Frame DK,KDB,KD,HKD	9.75	8.00	—	10.75
	•	C371F	400A	K Frame HMCP	9.75	8.00	—	10.75
	•	C371G	600A	L Frame LD,HLD,LDC	8.44	11.88	—	9.18
	•	C371G	600A	L Frame HMCP	8.44	11.88	—	9.18

Charts reference Space Occupied by Disconnect Drawing.

...Cutler Hammer continued on next page

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer cont'd.

Cutler Hammer Flex-Shaft™ Operator Mechanisms (C-H Westinghouse Circuit Breakers)

Fits Enclosure Depth 8	Fits Enclosure Depth 12	Complete Operator Mechansim	Amp Rating	Fuse Type	Breaker Height "X"	Breaker Width "Y"
•	•	**F1S03**	150A	F Frame EHD,FDB,FD,HFD,FDC	6.00	4.12
•	•	**F1S03**	150A	F Frame HMCP	6.00	4.12
•	•	**F2S03**	250A	J Frame JDB,JD,HJD,JDC	10.00	4.12
•	•	**F2S03**	250A	J Frame HMCP	10.00	4.12
•	•	**F3S03**	400A	K Frame DK,KDB,KD,HKD	10.12	5.50
•	•	**F3S03**	400A	K Frame HMCP	12.45	5.50
	•	**F4S04**	600A	L Frame LD,HLD,LDC	10.75	8.25
	•	**F7S04**	800A	M Frame MD,MDS	16.00	8.25
	•	**F5S04**	1200A	N Frame ND,HND,NDC	16.00	8.25
	•	**F6S04**	2500A	R Frame RD,CRD, RDC	16.00	15.50

Part numbers for Complete Operator Mechanisms include flange mounted handle, flexible shaft and circuit breaker mechanism.
The last digit of the part number denotes the shaft length (F1S03=3' length).

- F,J,K frame Flex-Shafts™ available in 3' to 10' lengths.
- L,N,R frame Flex-Shafts™ available in 4' to 6' lengths.

Space Occupied By Disconnect

1. Flex-Shaft™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 4" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric

General Electric Type STDA Disconnect Switches

Fits Enclosure Depth 8	Fits Enclosure Depth 12	General Electric Mechanism For Switch	Amp Rating	Fuse Clip	Fuse Class	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	TDOM1A	30A	No Fuse	—	7.75[1]	5.25	9.12	12.12
•	•	TDOM1A	30A	30A-250V	H, R	7.75[1]	5.25	9.12	12.12
•	•	TDOM1B	30A	30A-600V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	30A	60A-250V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	30A	60A-600V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1A	60A	No Fuse	—	7.75[1]	5.25	9.12	12.12
•	•	TDOM1B	60A	60A-250V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	60A	60A-600V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	60A	100A-250V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	60A	100A-600V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1A	100A	No Fuse	—	7.75[1]	5.25	9.12	12.12
•	•	TDOM1B	100A	100A-250V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	100A	100A-600V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	100A	200A-250V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM1B	100A	200A-600V	H, R	12.38[1]	5.25	9.12	12.12
•	•	TDOM2	200A	No Fuse	—	7.00	9.12	6.50	9.50
•	•	TDOM2	200A	200A-250V	H, R	15.38	9.12	6.50	9.50
•	•	TDOM2	200A	200A-600V	H, R	15.38	9.12	6.50	9.50

[1] Applies to 8" deep enclosures, and is 0.875" less in 12" deep enclosures.

General Electric Type STDA Operators For Circuit Breakers

Fits Enclosure Depth 8	Fits Enclosure Depth 12	General Electric Mechanism For Switch	Amp Rating	Fuse Type	Space Occupied L	Space Occupied M	When K=8.62 P	When K=11.62 P
•	•	SDOM1A	150A	TEB, TED, THED	7.75[1]	5.25	9.06	12.06
•	•	SDOM1A	150A	TEC	7.75[1]	5.25	9.06	12.06
•	•	TDOM1B	150A	TB1	12.38[1]	5.25	9.06	12.06
•	•	TDOM1B	150A	TEC, TECL	12.38[1]	5.25	9.06	12.06
•	•	TDOM1C	150A	TEL	7.75[1]	5.25	9.06	12.06
•	•	TDOM1D	150A	THLC1	7.75[1]	5.25	6.62	9.62
•	•	TDOM3	225A	TFJ	10.38	5.75	7.62	10.62
•	•	TDOM3	225A	TFK, THFK, TFL	10.38	5.75	7.62	10.62
•	•	TDOM4	400A	TJJ, TJK4, THJK4, TJL4V	8.25	9.38	6.69	9.69
•	•	TDOM4	600A	TJK6, THJK6, TJ4V, TJL4V	8.25	9.38	6.69	9.69
•	•	TDOM5	400A	TB4, TJH6S	14.25	9.38	6.69	9.69
•	•	TDOM6	225A	TLB2, THLC2	11.75	9.38	6.12	9.12
•	•	TDOM6	400A	TLB4, THLC4	11.75	9.38	4.75	7.75
•	•	SDOM1A	150A	SPECTRA SE150	7.75[1]	5.25	9.06	12.06
•	•	SDOM3	250A	SPECTRA SF250	10.38	5.75	7.06	10.06
	•	SDOM4	600A	SPECTRA SG600	10.00	7.00	—	7.93

[1] Applies to 8" deep enclosures, and is 0.875" less in 12" deep enclosures.

Charts reference Space Occupied by Disconnect Drawing.

...General Electric continued on next page

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric cont'd.

General Electric Circuit Breakers (Spectra-Flex™ Cable Operators)

Fits Enclosure Depth C=8	Fits Enclosure Depth C=12	Frame Size	Max Amp Rating	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
•	•	E150	150A	6.31	4.12
•	•	SE150	150A	6.31	4.12
	•	SF250	250A	10.12	4.12
	•	SG600	600A	10.09	5.50
	•	SK1200	1200A	15.50	8.25

Frame Size	Breaker Mechanism	Flange Mounting Handle[1]	Operating Cable[2]
E150	SCOM1A	SCH1	SC3L
SE150/SF250	SCOM1EF	SCH1	SC3L
SG600	SCOM1G	SCH1	SC3L
SK1200	SCOM1K	SCH2K	SC3H

[1]Add "X" for NEMA 4 or NEMA 4X Flange mounting handle.
[2]Operating Cables are available 3' to 10' lengths. In the table above, the number "3" in the part number indicates a 3' cable.

Space Occupied By Disconnect
1. GE Spectra-Flex™ Operating Cables permit circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 3" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing...*see page* **164.**

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Siemens I-T-E

Siemens I-T-E Disconnect Switches (Max-Flex™ Operators)

Fits Enclosure Depth C=8	Fits Enclosure Depth C=12	Switch	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
•	•	MCS603R	30A	No Fuse	—	5.52	6.13
•	•	MCS603R	30A	30A-250V	H,K,R	8.11	6.13
•	•	MCS603R	30A	30A-600V	H,K,R	10.11	6.13
•	•	MCS603R	30A	30A-600V	J	8.48	6.13
•	•	MCS606R	60A	No Fuse	—	5.52	6.13
•	•	MCS606R	60A	60A-250V	H,K,R	7.86	6.13
•	•	MCS606R	60A	60A-600V	H,K,R	10.38	6.13
•	•	MCS606R	60A	60A-600V	J	8.36	6.13
•	•	MCS610R	100A	No Fuse	—	7.59	7.38
•	•	MCS610R	100A	100A-250V	H,K,R	11.85	7.38
•	•	MCS610R	100A	100A-600V	H,K,R	13.85	7.38
•	•	MCS610R	100A	100A-600V	J	10.60	7.38
•	•	MCS620R	200A	No Fuse	—	9.00	9.17
•	•	MCS620R	200A	200A-250V	H,K,R	14.70	9.17
•	•	MCS620R	200A	200A-600V	H,K,R	17.20	9.17
•	•	MCS620R	200A	200A-600V	J	13.32	9.17

Siemens I-T-E Max-Flex™ Operators (Circuit Breakers)

Complete Operator Mechansim	Amp Rating	Breaker Frame Size	Circuit Breaker Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
FHOE036	125A	ED	ED2,ED4,ED6,HED4,HED6,	6.34	3.00
FHOE036	125A	CED	CED6	9.58	3.00
FHOF036	250A	FD	FXD6-A,FD6-A,HFD6,FXD6-ETJ,HHFD6, HHFXD6	9.50	4.50
FHOF036	250A	CFD	CFD6,CFD6-ETI	14.25	4.50
FHOJ036	400A, 600A	JD, LD	JXD2,LXD6,JD6,LD6,HJD6,HLD6,HHJD6,HH LD6, HHJXD6,HHLXD6,JXD6-ETI,LXD6-ETI	11.00	7.50
FHOJ036	400A, 600A	CJD,CLD	CJD6,CLD6,CJD6-ETI,CLD6-ETI	17.86	7.50
FHOLMO36	800A	LMD	LMD6,LMXD6,HLMD6,HLMDX6,LMXD6-ETI	16.00	9.00

Last three digits of operator mechanism part number denote cable length in inches.

- 48" cables are offered for ED, FD, JD/LD operators

Space Occupied By Disconnect

1. I-T-E Max-Flex™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref “P”) needed for line side conductors.
3. See Siemens I-T-E instructions for disconnect location limitations when using 36" or 48" Max-Flex™ cables.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing...*see page* **164.**

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Disconnect Switches

Fits Enclosure Depth		Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=8.62	When K=11.62
8	12					L	M	P	P
•	•	TCN-30	30A	No Fuse	—	3.80	6.84	7.56	10.56
•	•	TCF-30	30A	30A-250V	H, K, R	5.53	6.84	7.56	10.56
•	•	TCF-33	30A	30A-600V	H, K, R	8.15	6.84	7.56	10.56
•	•	TCF-33	30A	60A-250V	H, K, R	6.15	6.84	7.56	10.56
•	•	TCF-33	30A	30A-600V	J	5.53	6.84	7.56	10.56
•	•	TDN-60	60A	No Fuse	—	3.80	6.84	7.56	10.56
•	•	TDF-60	60A	30A-600V	H, K, R	8.15	6.84	7.56	10.56
•	•	TDF-60	60A	60A-250V	H, K, R	6.15	6.84	7.56	10.56
•	•	TDF-63	60A	60A-600V	H, K, R	8.65	6.84	7.56	10.56
•	•	TDF-63	60A	60A-600V	J	5.53	6.84	7.56	10.56
	•	TEN-10	100A	No Fuse	—	3.80	6.84	7.44	10.44
	•	TEF-10	100A	100A-250V	H, K, R	8.25	6.84	7.44	10.44
	•	TEF-10	100A	100A-600V	H, K, R	10.25	6.84	7.44	10.44
	•	TEF-10	100A	100A-600V	J	7.05	6.84	7.44	10.44
•	•	TC-1	30A	No Fuse	—	5.75	6.00	6.62	9.62
•	•	TC-2	30A	30A-250V	H, K, R	5.75	6.00	6.62	9.62
•	•	TC-3	30A	30A-600V	H, K, R	7.75	6.00	6.62	9.62
•	•	TC-3	30A	60A-250V	H, K, R	5.88	6.00	6.62	9.62
•	•	TC-3	30A	30A-600V	J	5.75	6.00	6.62	9.62
•	•	TD-1	60A	No Fuse	—	6.38	6.62	7.50	10.50
•	•	TD-2	60A	30A-600V	H, K, R	8.50	6.62	7.50	10.50
•	•	TD-2	60A	60A-250V	H, K, R	6.50	6.62	7.50	10.50
•	•	TD-3	60A	60A-600V	H, K, R	9.00	6.62	7.50	10.50
•	•	TD-3	60A	60A-600V	J	6.38	6.62	7.50	10.50
	•	TE-1	100A	No Fuse	—	4.75	8.38	—	10.25
	•	TE-2	100A	100A-250V	H, K, R	7.50	8.38	—	10.25
	•	TE-2	100A	100A-600V	H, K, R	9.50	8.38	—	10.25
	•	TE-2	100A	100A-600V	J	6.25	8.38	—	10.25
	•	TE-3	100A	200A-600V	J	13.75	8.38	—	10.25
	•	TF-1	200A	No Fuse	—	5.50	11.62	—	8.88
	•	TF-2	200A	200A-250V	H, K, R	11.50	11.62	—	8.88
	•	TF-2	200A	200A-600V	H, K, R	14.00	11.62	—	8.88
	•	TF-2	200A	200A-600V	J	10.12	11.62	—	8.88
	•	TF-3	200A	400A-600V	J	14.50	11.62	—	8.88

Square D Class 9422 Variable Depth Operators (Circuit Breakers)

Fits Enclosure Depth		General Electric Mechanism For Switch	Amp Rating	Frame Size	Space Occupied		When K=8.62	When K=11.62
8	12				L	M	P	P
•	•	RG-1	75A	GJL	3.53	3.74	7.47	10.47
•	•	RG-1	100A	GJL	3.53	3.74	7.47	10.47
•	•	RN-1	100A	FAL,FHL	5.12	5.25	7.62	10.62
•	•	RP-1	250A	KAL,KHL	7.12	5.62	8.38	11.38
	•	RR-1	400A	LAL, LHL, Q4L	7.62	8.75	—	7.00

Charts reference Space Occupied by Disconnect Drawing.

Technical references and DXF downloads available at www.hammfg.com

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Single Door Disconnect Enclosures - NEMA 4, 4X

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Disconnect Switches (Cable Mechanism 9422-CFT30 and 9422A-1 Handle Mechanism)

Fits Enclosure Depth C=8	Fits Enclosure Depth C=12	Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
•	•	**TCN-30**	30A	No Fuse	—	5.90	6.20
•	•	**TCF-30**	30A	30A-250V	H, K, R	7.50	6.20
•	•	**TCF-33**	30A	30A-600V	H, K, R	10.15	6.20
•	•	**TCF-33**	30A	60A-250V	H, K, R	8.15	6.20
•	•	**TCF-33**	30A	30A-600V	J	7.50	6.20
•	•	**TDN-60**	60A	No Fuse	—	5.90	6.20
•	•	**TDF-60**	60A	30A-600V	H, K, R	10.15	6.20
•	•	**TDF-60**	60A	60A-250V	H, K, R	8.15	6.20
•	•	**TDF-63**	60A	60A-600V	H, K, R	10.65	6.20
•	•	**TDF-63**	60A	60A-600V	J	7.5	6.20
	•	**TEN-10**	100A	No Fuse	—	5.90	6.20
	•	**TEF-10**	100A	100A-250V	H, K, R	10.35	6.20
	•	**TEF-10**	100A	100A-600V	H, K, R	12.35	6.20
	•	**TEF-10**	100A	100A-600V	J	10.35	6.20

Square D Class 9422 Cable Mechanism (Circuit Breakers)

Fits Enclosure Depth C=8	Fits Enclosure Depth C=12	Cable Type Switch	Amp Rating	Fram Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
•	•	**9422 CGJ30**	75A	GJL	4.75	3.50
•	•	**9422 CEJ30**	100A	GJL	4.75	3.50
•	•	**9422 CFA30**	100A	FAL,FHL	6.00	4.50
•	•	**9422 CKA30**	250A	KAL,KHL	8.00	4.50
	•	**9422 CLA30**	400A	LAL,LHL,Q4L	11.00	6.00

Use cable mechanism with circuit breaker and 9422-A1 handle mechanism
Cable operators are offered in 3', 5', and 10' lengths. Last 2 digits of part numbers above (30) are for 3' cables

Space Occupied By Disconnect Switch

1. Square D Cable System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select cable mechanism length based on disconnect location in enclosure. See Square D instructions for minimum cable bend radius.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)

Charts reference Space Occupied by Disconnect Drawing.

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1447A Single Door Disconnect Enclosures - NEMA 12, 13

Allen Bradley, 1494 F & D Series Only



Inner Panel Included

Application

- Designed to house **Allen Bradley 1494F** flange mounted disconnect switches and **1494D** flange mounted circuit breaker operators (will not accept Allen Bradley 1494V disconnect switches).
- Provides a degree of protection from falling dirt, dust, oil and water.

Standards

- UL 508 Type 12, 13
- CSA Type 12, 13
- **Complies with**
  - NEMA Type 12, 13
  - JIC EGP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed 14-gauge steel.
- Continuously welded seams.
- Larger sizes include door and body stiffeners.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the handle, operating mechanism and door closing mechanism.
- Continuously hinged doors may be removed by pulling the hinge pin.
- Guide and cover interlock brackets are welded to the door.
- Cover latch bars for door hardware are provided.
- A spacer kit to support the disconnect on the panel is included.
- Collar studs are provided for mounting inner panels.
- A removable 12 gauge inner panel is included.
- Oil resistant gaskets are permanently secured and mechanically retained.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided.

Note

- Disconnects, operating mechanisms, and door hardware are not provided with the enclosure, and must be ordered separately from the manufacturer.
- Enclosures with an "A" dimension under 40" require 2 point door closing hardware. Order one Allen Bradley 1494F-L1.
- Enclosures with an "A" dimension of 40" or more require a 3 point door closing mechanism. Order one Allen Bradley 1494F-L2 and one 1494F-L3.
- Enclosures 1447A K122 and 1447A L122 accept a 200 A switch only. This switch will not fit in any other 1447A Series Enclosure. Order Allen Bradley 1494F-L4 door hardware for 1447A K122 and 1447A L122 enclosures.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Enclosure interior is finished in white powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***433***
- Air conditioners...*see page* ***389***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Drip shield kits...*see page* ***447***
- Filter fans...*see page* ***408-414***
- Floor stand kits...*see page* ***448***
- Heaters...*see page* ***418-420***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

Technical references and DXF downloads available at www.hammfg.com

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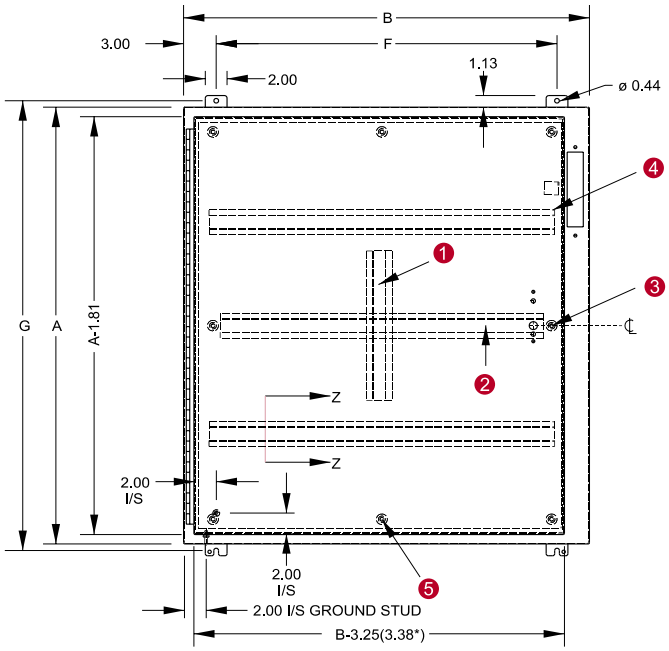
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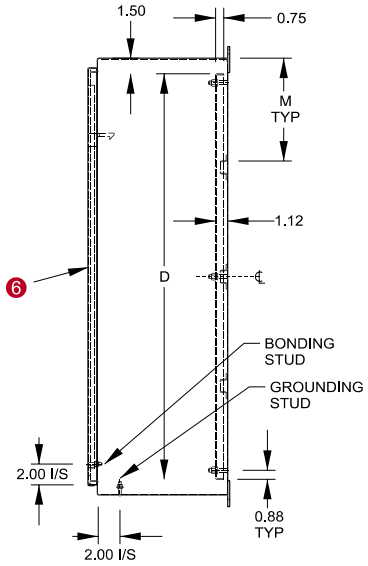
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1447A Single Door Disconnect Enclosures - NEMA 12, 13

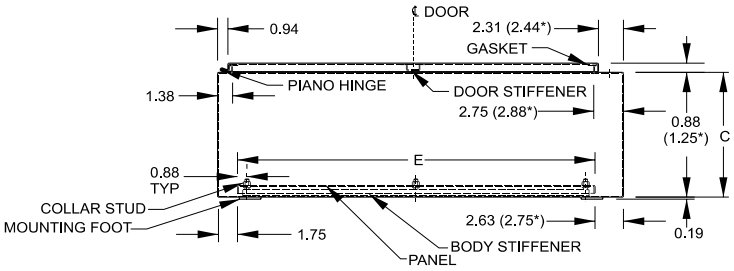
Allen Bradley, 1494 F & D Series Only



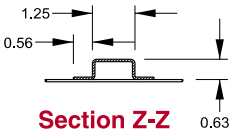
Front View



Side View



Top View



Section Z-Z

When A=	M=
36	9.00
42	9.88
48	11.38
60	14.38

❶ Vertical body stiffener req'd on 1447AG only.
❷ Omit center body stiffener if A is less than 41".
❸ Omit 2 middle studs if A is less than 31".
❹ Omit body stiffeners if B is 28" or less.
❺ Omit 2 middle studs if B is less than 32".
❻ Omit door stiffener if B is 32" or less except if AxB is 42"x31.38".

* Bracketed numbers are for AK122 and AL122.

Part No.	Dimensions A	B	C	Panel Size D	E	Mtg. Centers F	G	Ship Wt. lbs.
1447AA8	20	21.38	8	17	17	15.38	21.25	55
1447AB8	24	21.38	8	21	17	15.38	25.25	61
1447AC8	24	25.38	8	21	21	19.38	25.25	67
1447AD8	30	21.38	8	27	17	15.38	31.25	74
1447AE8	30	25.38	8	27	21	19.38	31.25	85
1447AF8	36	25.38	8	33	21	19.38	37.25	100
1447AG8	36	31.38	8	33	27	25.38	37.25	123
1447AH8	42	31.38	8	39	27	25.38	43.25	137
1447AJ8	42	37.38	8	39	33	31.38	43.25	186
1447AK8	48	37.38	8	45	33	31.38	49.25	211
1447AL8	60	37.38	8	57	33	31.38	61.25	245
1447AB10	24	21.38	10	21	17	15.38	25.25	68
1447AC10	24	25.38	10	21	21	19.38	25.25	75
1447AD10	30	21.38	10	27	17	15.38	31.25	78
1447AE10	30	25.38	10	27	21	19.38	31.25	90

Part No.	Dimensions A	B	C	Panel Size D	E	Mtg. Centers F	G	Ship Wt. lbs.
1447AF10	36	25.38	10	33	21	19.38	37.25	110
1447AG10	36	31.38	10	33	27	25.38	37.25	125
1447AH10	42	31.38	10	39	27	25.38	43.25	137
1447AJ10	42	37.38	10	39	33	31.38	43.25	189
1447AK10	48	37.38	10	45	33	31.38	49.25	211
1447AL10	60	37.38	10	57	33	31.38	61.25	257
1447AG12	36	31.38	12	33	27	25.38	37.25	125
1447AH12	42	31.38	12	39	27	25.38	43.25	137
1447AJ12	42	37.38	12	39	33	31.38	43.25	189
1447AK12	48	37.38	12	45	33	31.38	49.25	211
1447AL12	60	37.38	12	57	33	31.38	61.25	257
1447AK16	48	37.38	16	45	33	31.38	49.25	211
1447AL16	60	37.38	16	57	33	31.38	61.25	257
1447AK122	48	37.50	12	45	33	31.50	49.25	250
1447AL122	60	37.50	12	57	33	31.50	61.25	265

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1447A Single Door Disconnect Enclosures - NEMA 12, 13

Allen Bradley, 1494 F & D Series Only

Disconnect Ordering Information

Allen Bradley

Bulletin 1494F flange mounted disconnect switch:

- Disconnect switch
- Fuse block adaptor (if required)
- Line and load connectors (if required)
- Door hardware
  - Enclosures with an "A" dimension under 40" require two point door latching hardware, order: one Allen Bradley 1494F-L1.
  - Enclosures with an "A" dimension of 40" or more require a 3 point door latching mechanism, order: one Allen Bradley 1494F-L2 and one 1494F-L3.
  - Exception: Order Allen Bradley 1494F-L4 door hardware for 1447A K122 and 1447A L122.

Bulletin 1494D flange mounted circuit breaker operating mechanism:

- Circuit breaker C-H Westinghouse
- Operating mechanism
- Slide mechanism
- Door hardware
  - Enclosures with an "A" dimension under 40" require two point door latching hardware, order: one Allen Bradley 1494F-L1.
  - Enclosures with an "A" dimension of 40" or more require a 3 point door latching mechanism, order: one Allen Bradley 1494F-L2 and one 1494F-L3.

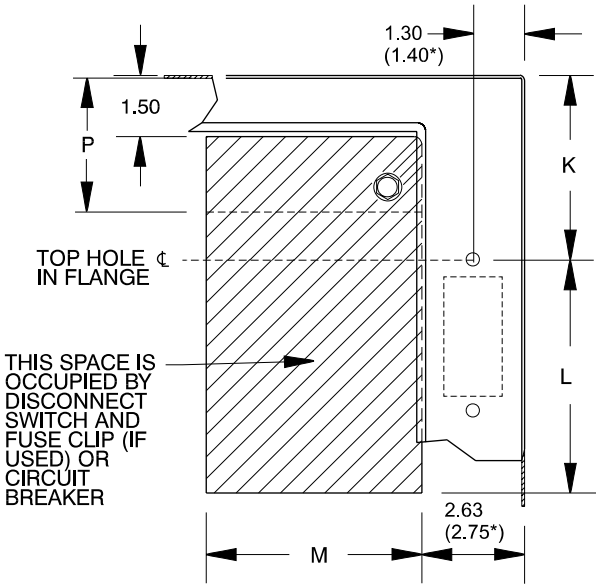
Space Occupied by Disconnect

Note: "K" = 3.84 when "C" = 8.00
"K" = 6.75 when "C" = 10.00
"K" = 9.50 when "C" = 12.00
(except enclosures for 200A switches)
"K" = 9.50 when "C" = 16.00
"K" = 10.50 when "C" = 12.00
(for enclosures with 200A switches)
"P" = Wiring Space

Disconnects will occupy space on panel shown by dimensions "K", "L" and "M".

Wiring space "P" is available when disconnect is installed in the enclosure.

*The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing is not responsible for dimensional accuracy.



*BRACKETED NUMBERS ARE FOR AK122 AND AL122

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1447A Single Door Disconnect Enclosures - NEMA 12, 13

Allen Bradley, 1494 F & D Series Only

Allen Bradley 1494F Disconnect Switches

Fits Enclosure Depth				Allen-Bradley Type No.	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When K=3.84	When K=6.75	When K=9.50
8	10	12	16					L	M[1]	P	P	P
•	•	•	•	N30	30A	No Fuse	—	4.62	6.25	3.25	6.25	8.88
•	•	•	•	NF30	30A	30A-250V	H, K, R	6.25	6.25	3.25	6.25	8.88
•	•	•	•	NF30	30A	60A-250V	H, K, R	7.25	6.25	3.25	6.25	8.88
•	•	•	•	NF30	30A	30A-600V	H, K, R	9.25	6.25	3.25	6.25	8.88
•	•	•	•	NF30	30A	60A-600V	H, K, R	9.75	6.25	3.25	6.25	8.88
•	•	•	•	NF30	30A	30A-600V	J	6.50	6.25	3.25	6.25	8.88
•	•	•	•	NF30	30A	60A-600V	J	6.62	6.25	3.25	6.25	8.88
•	•	•	•	N60	60A	No Fuse	—	4.62	6.25	2.50	5.25	8.12
•	•	•	•	NF60	60A	30A-600V	H, K, R	10.38	6.25	2.50	5.25	8.12
•	•	•	•	NF60	60A	60A-250V	H, K, R	8.38	6.25	2.50	5.25	8.12
•	•	•	•	NF60	60A	100A-250V	H, K, R	10.88	6.25	2.50	5.25	8.12
•	•	•	•	NF60	60A	60A-600V	H, K, R	10.88	6.25	2.50	5.25	8.12
•	•	•	•	NF60	60A	100A-600V	H, K, R	12.88	6.38	2.50	5.25	8.12
•	•	•	•	NF60	60A	60A-600V	J	7.75	6.25	2.50	5.25	8.12
•	•	•	•	NF60	60A	100A-600V	J	9.75	6.25	2.50	5.25	8.12
	•	•	•	N100	100A	No Fuse	—	4.62	7.00	—	3.50	6.25
	•	•	•	NF100	100A	100A-250V	H, K, R	11.38	7.00	—	3.50	6.25
	•	•	•	NF100	100A	200A-250V	H, K, R	12.25	7.25	—	3.50	6.25
	•	•	•	NF100	100A	100A-600V	H, K, R	13.38	7.12	—	3.50	6.25
	•	•	•	NF100	100A	200A-600V	H, K, R	14.75	7.38	—	3.50	6.25
	•	•	•	NF100	100A	100A-600V	J	10.12	7.00	—	3.50	6.25
	•	•	•	NF100	100A	200A-600V	J	10.88	7.25	—	3.50	6.25
		[2]		N200	200A	No Fuse	—	7.12	10.00	—	—	7.00
		[2]		NF200	200A	200A-250V	H, K, R	15.00	10.00	—	—	7.00
		[2]		NF200	200A	400A-250V	H, K, R	16.56	10.38	—	—	7.00
		[2]		NF200	200A	200A-600V	H, K, R	17.56	10.00	—	—	7.00
		[2]		NF200	200A	400A-600V	H, K, R	19.56	10.62	—	—	7.00
		[2]		NF200	200A	200A-600V	J	13.69	10.00	—	—	7.00
		[2]		NF200	200A	400A-600V	J	15.00	10.25	—	—	7.00

[1]"M" dimension does not allow for auxiliary switches. Refer to Allen Bradley instructions if additional space is required.
[2]200 A switches can only be installed in Hammond Enclosures 1447AK122 and 1447AL122.
K=10.50" for these 12.00" enclosures

Allen Bradley 1494D Circuit Breaker Operators

Fits Enclosure Depth				Allen-Bradley Type No.	Frame Rating	Breaker Type	Frame Size (3 Pole)	Space Occupied		When K=3.84	When K=6.75	When K=9.50
8	10	12	16					L	M[1]	P	P	P
•	•	•	•	N4/N40	150A	C-H Westinghouse	EHD, FD, FDB, FDC, HFD, HMCP	5.81	4.31	3.25	6.12	8.88
	•	•	•	N5/N50	250A	C-H Westinghouse	JD, JDB, JDC, HJD, HMCP	8.81	4.50	—	5.31	8.06
	•	•	•	N5/N60	400A	C-H Westinghouse	KD, KDB, DK, HKD, HMCP	8.81	5.62	—	5.44	8.19

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All dimensions in inches unless specified otherwise

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2UD Two Door Wallmount Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Inner Panel Included

Application

Designed to accept the following disconnect switches and circuit breakers:

- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers.
- **Allen Bradley** 1494F flange mounted disconnect switches and 1494D flange mounted operators for circuit breakers. Allen Bradley 1494V variable depth flange mounted disconnect switches and circuit breaker mechanisms.
- **C-H Westinghouse** Type C361 disconnect swtches and operator mechanisms, and type C371 circuit breakers and circuit breaker operating mechanisms. Flex Shaft™ handle operators for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra-Flex™ cable operators for circuit breakers.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth operating handles for disconnect switches and circuit breakers.
- **Square D** disconnect switches and circuit breakers used with Class 9422 flange mounted variable depth operating mechanisms or cable mechanisms. These enclosures will not receive Class 9422 bracket mounted disconnect devices, Class 9422TG1, or TG2 devices.

Operator Adaptor Kits

- All universal series enclosures require one adaptor kit (ordered separately) to adapt the type of disconnect and mechanism to be used.
- Each brand and type requires a different adaptor kit.
- Each kit contains an adaptor plate and master door interlocking mechanism.
- Fully detailed, illustrated instructions are included.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EGP-1-1967 and EMP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed from 10 gauge steel with smooth, continuously welded seams.
- Body stiffeners are included in the larger enclosures for extra rigidity.
- Heavy duty lifting eyes are anchored into reinforced top corners.
- Flange trough collar (FTC) around door opening excludes liquids and contaminants.
- Removable doors are secured with heavy duty lift-off hinges.
- Formed 10 gauge steel inner panels are provided on collar studs.
- Panel supports are provided.
- Center post is removable, providing easy panel installation.
- Heavy duty three point latching mechanism with heavy duty roller ends is provided for ease of door closing.
- Oil resistant gaskets are permanently secured and mechanically retained.
- The right hand door is the master door.
- Master door handle complete with screw defeater and padlock hasp.
- Slave door handle complete with padlock hasp.
- A mechanical interlock activated by the master door prevents the auxiliary door from being opened first.
- The universal flange cutout provides mounting for disconnect operators by use of the appropriate operator adaptor kit.
- A provision for mounting fluorescent lighting is provided.
- A bonding stud is provided in the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided for the inside of the door.

Note:

- Disconnect switches, circuit breakers and operators are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Enclosure interior is finished in white powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* **434**
- Air conditioners...*see page* **388-405**
- Blank adaptor plates...*see page* **188**
- Blowers...*see page* **407**
- Breather kits...*see page* **423**
- Doorstop kits...*see page* **447**
- Filter fans...*see page* **408-414**
- Floor stand kits...*see page* **448**
- Heaters...*see page* **418-420**
- Light kits...*see page* **447**
- Operator adaptor kits...*see page* **188**
- Thermostats...*see page* **421-422**
- Window kits...*see page* **444**

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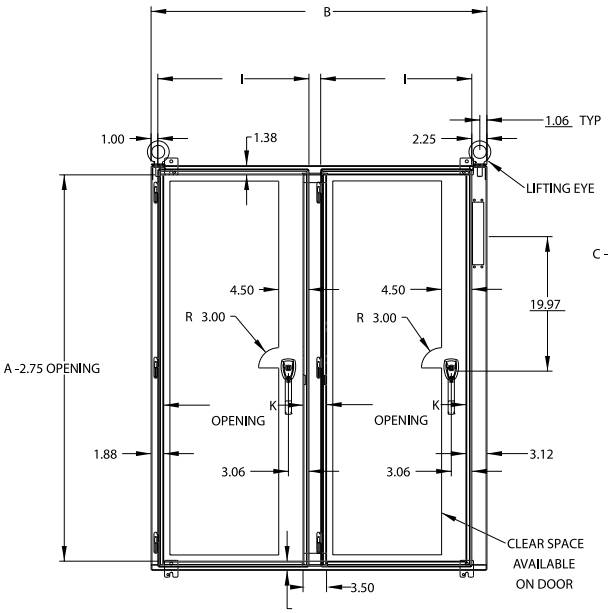
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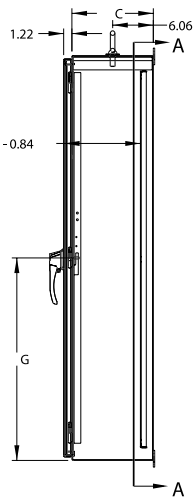
Data Subject to change without notice

2UD Two Door Wallmount Disconnect Enclosures - NEMA 12

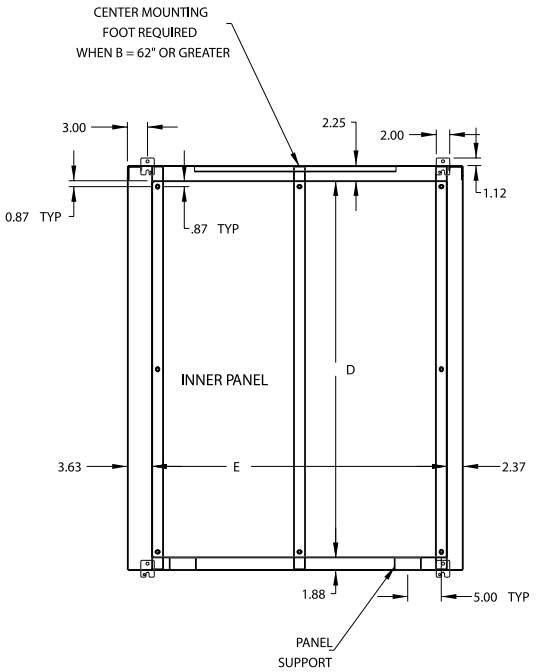
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



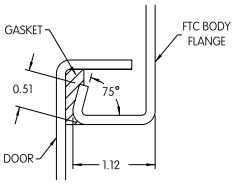
Front View



Side View



Rear View (Cross Section)



FTC Detail

Part No.	A	B	C	D	E	G	H	I	K	Ship Wt lbs.
2UD605012FTC	60.13	50.00	12.13	56	44	30.06	59.13	22.5	20.75	554
2UD606212FTC	60.13	62.00	12.13	56	56	30.06	59.13	28.5	26.75	683
2UD726212FTC	72.13	62.00	12.13	68	56	36.06	71.13	28.5	26.75	803
2UD727412FTC	72.13	74.00	12.13	68	68	36.06	71.13	34.5	32.75	937

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2UDF Two Door Floormount Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Inner Panel Included

Application

Designed to accept the following disconnect switches and circuit breakers:

- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers.
- **Allen Bradley** 1494F flange mounted disconnect switches and 1494D flange mounted operators for circuit breakers. Allen Bradley 1494V variable depth flange mounted disconnect switches and circuit breaker mechanisms.
- **C-H Westinghouse** Type C361 disconnect swtches and operator mechanisms, and type C371 circuit breakers and circuit breaker operating mechanisms. Flex Shaft™ handle operators for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra-Flex™ cable operators for circuit breakers.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth operating handles for disconnect switches and circuit breakers.
- **Square D** disconnect switches and circuit breakers used with Class 9422 flange mounted variable depth operating mechanisms or cable mechanisms. These enclosures will not receive Class 9422 bracket mounted disconnect devices, Class 9422TG1, or TG2 devices.

Operator Adaptor Kits

- All universal series enclosures require one adaptor kit (ordered separately) to adapt the type of disconnect and mechanism to be used.
- Each brand and type requires a different adaptor kit.
- Each kit contains an adaptor plate and master door interlocking mechanism.
- Fully detailed, illustrated instructions are included.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - JIC EGP-1-1967 and EMP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed from 10 gauge steel with smooth, continuously welded seams.
- Body stiffeners are included in the larger enclosures for extra rigidity.
- Flange trough collar (FTC) around door opening excludes liquids and contaminants.
- 15" floor stands are welded to the enclosure.
- Removable doors are secured with heavy duty lift-off hinges.
- Formed 10 gauge steel inner panels are provided on collar studs.
- Panel supports are provided.
- Center post is removable, providing easy panel installation.
- Heavy duty three point latching mechanism with heavy duty roller ends is provided for ease of door closing.
- Oil resistant gaskets are permanently secured and mechanically retained.
- The right hand door is the master door.
- Master door handle complete with screw defeater and padlock hasp.
- Slave door handle complete with padlock hasp.
- A mechanical interlock activated by the master door prevents the auxiliary door from being opened first.
- The universal flange cutout provides mounting for disconnect operators by use of the appropriate operator adaptor kit.
- A provision for mounting fluorescent lighting is provided.
- A bonding stud is provided in the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided.

Note:

- Disconnect switches, circuit breakers and operators are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Enclosure interior is finished in white powder coating.
- Inner panel is finished in white powder coating.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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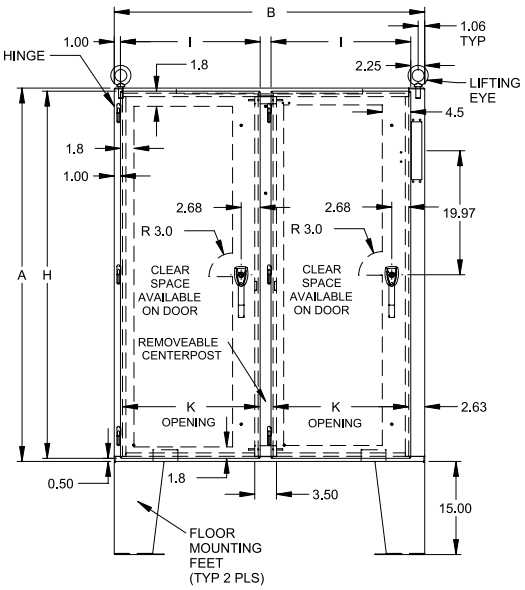
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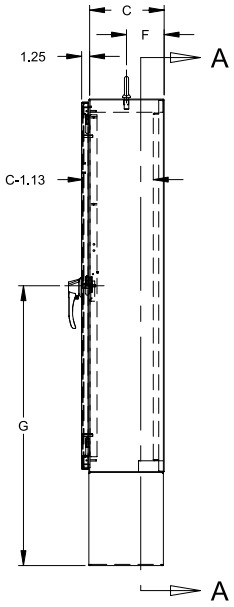
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2UDF Two Door Floormount Disconnect Enclosures - NEMA 12

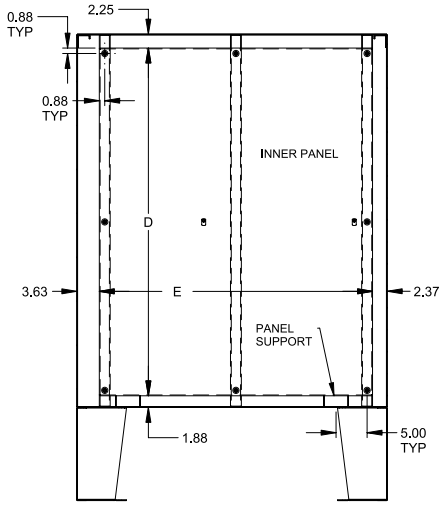
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Front View



Side View

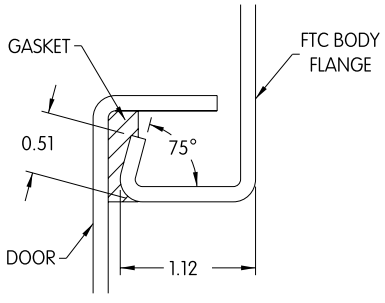


Section A-A

Part No.	A	B	C	D	E	F	G	H	I	K	Ship Wt lbs.
2UD605012FFTC	60.13	50.00	12.13	56	44	6.06	45.06	59.13	22.5	20.75	554
2UD605018FFTC	60.13	50.00	18.13	56	44	6.06	45.06	59.13	22.5	20.75	683
2UD606212FFTC	60.13	62.00	12.13	56	56	6.06	51.06	59.13	28.5	26.75	801
2UD606218FFTC	60.13	62.00	18.13	56	56	6.06	51.06	59.13	28.5	26.75	935
2UD726212FFTC	72.13	62.00	12.13	68	56	9.06	45.06	71.13	28.5	26.75	617
2UD726218FFTC	72.13	62.00	18.13	68	56	9.06	45.06	71.13	28.5	26.75	752
2UD727412FFTC	72.13	74.00	12.13	68	68	9.06	51.06	71.13	34.5	32.75	877
2UD727418FFTC	72.13	74.00	18.13	68	68	9.06	51.06	71.13	34.5	32.75	1017
2UD727424FFTC	72.13	74.00	24.13	68	68	12.06	51.06	71.13	34.5	32.75	1098

Accessories

- Additional inner panels...*see page* **434**
- Air conditioners...*see page* **388-405**
- Blank adaptor plates...*see page* **188**
- Blowers...*see page* **407**
- Breather kits...*see page* **423**
- Doorstop kits...*see page* **447**
- Filter fans...*see page* **408-414**
- Floor stand kits...*see page* **448**
- Heaters...*see page* **418-420**
- Light kits...*see page* **447**
- Operator adaptor kits...*see page* **188**
- Thermostats...*see page* **421-422**
- Window kits...*see page* **444**



FTC Detail

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2UDCP Two Door Floormount Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Inner Panel Included

Application

Designed to accept the following disconnect switches and circuit breakers:

- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers.
- **Allen Bradley** 1494F flange mounted disconnect switches and 1494D flange mounted operators for circuit breakers. Allen Bradley 1494V variable depth flange mounted disconnect switches and circuit breaker mechanisms.
- **C-H Westinghouse** Type C361 disconnect swtches and operator mechanisms, and type C371 circuit breakers and circuit breaker operating mechanisms. Flex Shaft™ handle operators for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra-Flex™ cable operators for circuit breakers.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth operating handles for disconnect switches and circuit breakers.
- **Square D** disconnect switches and circuit breakers used with Class 9422 flange mounted variable depth operating mechanisms or cable mechanisms. These enclosures will not receive Class 9422 bracket mounted disconnect devices, Class 9422TG1, or TG2 devices.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - JIC EGP-1-1967 and EMP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed from 10 gauge steel with smooth, continuously welded seams.
- Body stiffeners are included in the larger enclosures for extra rigidity.
- 15" floor stands are welded to the enclosure.
- Flange trough Collar (FTC) around door opening excludes liquids and contaminants.
- Heavy duty lifting eyes are anchored into reinforced top corners.
- Removable doors are secured with heavy duty lift-off hinges.
- Formed 10 gauge steel inner panels are provided on collar studs.
- Panel supports are provided.
- Center post is removable, providing easy panel installation.
- Heavy duty three point latching mechanism with heavy duty roller ends is provided for ease of door closing.
- Oil resistant gaskets are permanently secured.
- The left door is the master door.
- Master door handle complete with screw defeater and padlock hasp.
- Slave door handle complete with padlock hasp.
- A mechanical interlock activated by the master door prevents the auxiliary door from being opened first.
- The universal flange cutout provides mounting for disconnect operators by use of the appropriate operator adaptor kit.
- A provision for mounting fluorescent lighting is provided.
- A bonding stud is provided in the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided.

Note:

- Disconnect switches, circuit breakers and operators are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Enclosure interior is finished in white powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***434***
- Air conditioners...*see page* ***388-405***
- Blank adaptor plates...*see page* ***188***
- Blowers...*see page* ***407***
- Breather kits...*see page* ***423***
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- Thermostats...*see page* ***421-422***
- Window kits...*see page* ***444***

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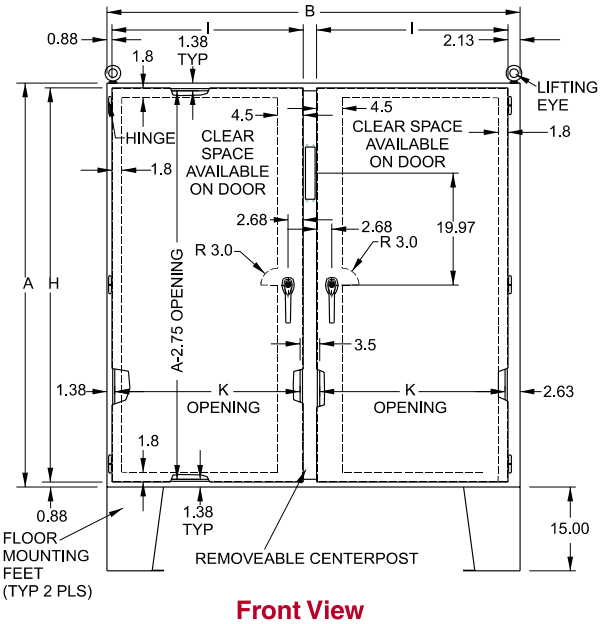
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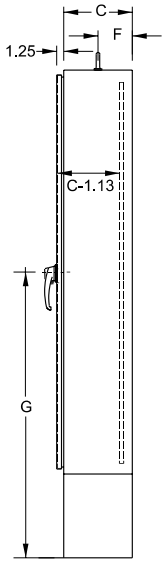
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2UDCP Two Door Floormount Disconnect Enclosures - NEMA 12

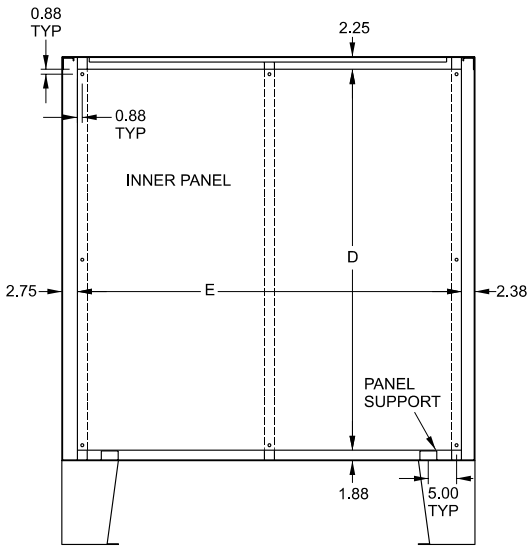
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Front View

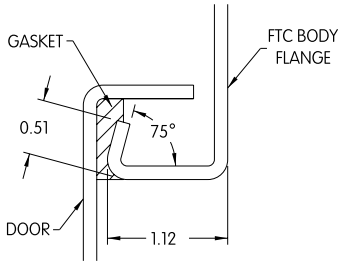


Side View



Rear View (Cross Section)

Part No.	Panel Size A	B	C	D	E	F	G	H	I	K	Ship Wt lbs.
2UDCP604912FFTC	60.13	48.88	12.13	56	44	6.06	45.06	59.13	22.5	20.81	547
2UDCP606112FFTC	60.13	60.88	12.13	56	56	6.06	45.06	59.13	28.5	26.81	576
2UDCP726112FFTC	72.13	60.88	12.13	68	56	6.06	51.06	71.13	28.5	26.81	796
2UDCP727312FFTC	72.13	72.88	12.13	68	68	6.06	51.06	71.13	34.5	32.81	929
2UDCP727318FFTC	72.13	72.88	18.13	68	68	9.06	51.06	71.13	34.5	32.81	1009



FTC Detail

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

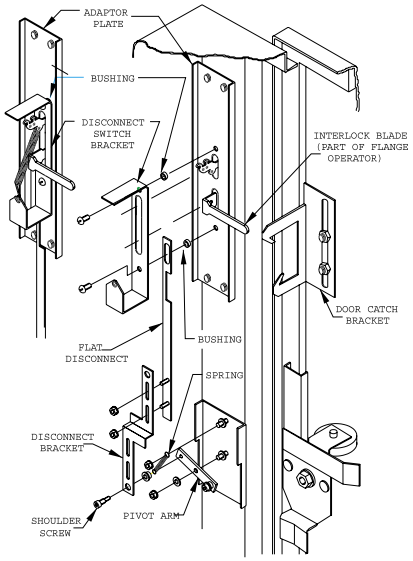
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Operator Adaptor Kits

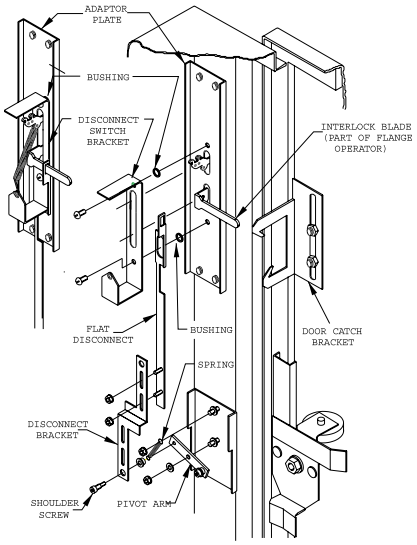
- All Universal series enclosures require one adaptor kit (ordered separately) to adapt the type of disconnect and mechanism to be used.
- Each brand and type requires a different adaptor kit.
- Each kit contains an adaptor plate and master door interlocking mechanism.
- Fully detailed, illustrated instructions included.

Part No.	Operator Make	Type
AKU	**ABB Controls** operating handle	
	Disconnect Switch	DSFHN-HS12
	Circuit Breaker	K7FHD-HS12
	Allen Bradley variable depth operating handle	
	Disconnect Switch	
	30-200	1494V H1
	Circuit Breaker	1494V H11
	Cutler Hammer operating handle	
	Disconnect Switch	C361H1 or H3
	Circuit Breaker	
	150A	C371H1 or H3
	250 to 600A	C371H5 or H7
	Circuit Breaker C371 Flex-Shaft™ handle mechanism.	
	General Electric operating handle	
	Disconnect Switch	STDA1or STDA2
	Circuit Breaker	STDA1or STDA2
	Circuit Breaker Spectra-Flex™ cable operators	
	150 to 600A	STDA1
	SK1200	STDA3
	Siemens I-T-E Max-Flex™ operating handle	
	Disconnect Switch variable depth	FHOHS
	Circuit Breaker	
	125 to 600	FHOH
	800 to 2000	FHOHN
	Square D class 9422 operating mechanism	
	Disconnect Switch variable depth	9422 type A1
	Circuit Breaker variable depth	9422 type A1
	Disconnect Switch with cable mechanism	9422 type A1
	Circuit Breaker with cable mechanism	9422 type A1
AK1494FD	Allen Bradley	1494F and D
BPAK	Blank Adapter Plate	

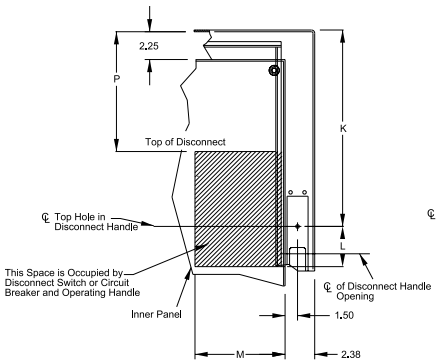
Version Shown
Allen Bradley - 1494V H1



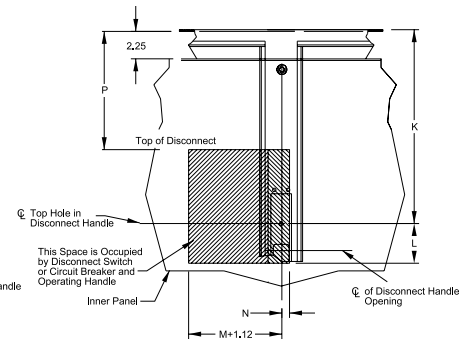
Version Shown
Allen Bradley - 1494V H2



Space Occupied by Disconnects



Panel space required for disconnects - 2UD Series



Panel space required for disconnects 2UDCP Series

Note:Disconnects will occupy space on panel shown by dimensions "K", "L", "M" and "N". Wiring space "P" is available when disconnect is installed in the enclosure. The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing not responsible for dimensional accuracy.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect Ordering Information

ABB Controls

Disconnect switch:

- Flange operated switch (fusible or non-fusible)
- Shaft:
  - 12.13" deep enclosures use DSFHS-12
  - 18.13" deep enclosures use DSFHS-17
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Handle: DSFHN-HS12

Circuit breaker:

- Circuit breaker: ABB
- Operating mechanism
- Shaft:
  - 12.13" deep enclosures use K7FHD-S12
  - 18.13" deep enclosures use K7FHD-S17
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Handle mechanism: K7FHD-HS12

Allen Bradley

Bulletin 1494F flange mounted disconnect switch:

- Disconnect switch
- Fuse block adaptor (if required)
- Line and load connectors (if required)

1494D flange mounted circuit breaker operating mechanism, order:

- Circuit breaker: C-H Westinghouse
- Operating mechanism
- Slide mechanism

Bulletin 1494V flange mounted disconnect switch, order:

- Disconnect switch
- Operating handle
- Connecting rod (long)
- Trailer fuse block kit (if required)
- Fuse kit (if required)
- Line and load connectors (if required)

Bulletin 1494V flange mounted circuit breaker operating mechanism, order:

- Circuit breaker: C-H Westinghouse
- Operating mechanism
- Operating handle
- Connecting rod (long)
- When Allen Bradley 1494V devices are installed in 72" high enclosures with the operating handle mounted on the center post, an optional Allen Bradley channel support kit is recommended.

C-H Westinghouse

File C361 disconnect switch:

- Disconnect switch with an operating mechanism
- Operating handle: C361H1 or C361H3
- In 24.13" deep enclosures, platform must be used with shaft (not included)

File C371 circuit breaker operating mechanism with a C-H Westinghouse circuit breaker:

- Circuit breaker
- Operating mechanism
- Long operating rod (if required)
- Operating handle
  - 150A - C371H1 or C371H3
  - 250 through 600A - C371H5 or C371H7

Flex-Shaft™ handle mechanism:

- Circuit breaker
- Ccomplete Flex-Shaft™ handle mechanism

General Electric

Disconnect switch:

- Disconnect switch: Type QMR or QMW
- Fuse clip kit or no-fuse kit
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)

Circuit breaker:

- Circuit breaker
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)
- An optional General Electric Flange Stiffener Kit (TDSR) is recommended when General Electric Type TDA devices are installed in 72.13" high enclosures with operating handle mounted on centerpost. Use with TDOM1, TDOM2, TDOM3, S100M1A, and S100M3 operating mechanisms.

Circuit breaker with Spectra-Flex™ cable operator:

- Circuit breaker
- Flange mounted handle mechanism
- 150 to 600A - STDA1
- SK1200 - STDA3
- Breaker mounted mechanism
- Operating cable

I-T-E Siemens

Disconnect switch:

- Basic switch (right-hand)
- Fuse kit or no-fuse kit
- Flange mounted handle: FHOHS
- Switch operator
- Operating cable:
  - FHOEC036 cable for 12.13" deep
  - FHOECO48 for 18.13" and 24.13" deep enclosures

Circuit breaker:

- Circuit breaker
- Pressure wire connectors
- Flange mounted handle
  - 100 to 600 - FHOH
  - 800 to 2000 - FHOHN
- Circuit breaker operator mechanism
- Operating cable:
  - 36" cable for 12.13" or 18.13" deep
  - 48" for 24.13" deep enclosures
- These items are available as a complete mechanism with a 36" operating cable only. Order items separately when using a 48" operating cable.

Square D

Disconnect switch:

- Disconnect switch with operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

Circuit breaker:

- Circuit breaker
- Operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

Class 9422 Type T disconnect switch with a cable mechanism:

- Disconnect switch with operating mechanism: Class 9422, Type T
- Handle mechanism: Class 9422, type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot

Circuit breaker with a cable mechanism:

- Circuit breaker: Square D
- Handle mechanism: Class 9422, type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot
- An optional Square D Channel flange Support Kit (9422-C1) is recommended when some Square D devices are installed in 72.13" high enclosures with operating handle mounted on centerpost.

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

ABB Controls

ABB Controls Disconnect Switches (Flange-Mounted Operators)

Fits Enclosure Height		ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied			When A=60.13	When A=72.13
60.13	72.13					L	M	N	P	P
•	•	OETL-NF30-F	30A	No Fuse	—	4.45	3.91	0.25	9.53	15.53
•	•	OETL-NF60-F	60A	No Fuse	—	4.86	3.91	0.25	9.34	15.34
•	•	OETL-NF100-F	100A	No Fuse	—	4.86	4.91	0.25	8.78	14.78
•	•	OETL-NF175-F	175A	No Fuse	—	7.30	6.62	0.25	6.53	12.53
•	•	OETL-NF200-F	200A	No Fuse	—	7.36	7.41	0.25	6.53	12.53
•	•	OESA-F30J6-F	30A	30A-600V	J	4.28	6.70	0.25	7.85	13.86
•	•	OESA-F60J6-F	60A	60A-600V	J	4.28	6.39	0.25	7.85	13.86
•	•	OESA-F100J6-F	100A	100A-600V	J [1]	6.54	7.78	0.25	7.42	13.42
			200A[2]							

[1]J type fuse clips are standard. If 600 V Type "T" fuse clips are desired, order T type fuse adaptor
[2]200 A available by using non-fusible 200A switch and a trailing fuse block (consult ABB)

ABB Controls Circuit Breakers (Flange-Mounted Operators)

Fits Enclosure Height		ISOMAX Circuit Breaker	Amp Rating	Operating Mechanism	Frame Type	Space Occupied			When A=60.13	When A=72.13
60.13	72.13					L	M	N	P	P
•	•	S1N100TL	100A	K2FHD-M	S1	5.30	4.60	0.63	8.33	14.33
•	•	S3N150TW	150A	K3FHD-M	S3	6.67	5.02	0.63	7.73	13.73
•	•	S3N225TW	225A	K3FHD-M	S3	6.67	5.02	0.63	7.73	13.73
•	•	S4N250BW	250A	K4FHD-M	S4	8.45	5.02	0.63	6.20	12.20
•	•	S5N400TW	400A	K5FHD-M	S5	8.45	6.40	0.63	6.20	12.20
•	•	S6N600TW	600A	K6FHD-M	S6	8.33	10.00	0.63	5.53	11.53
•	•	S6N800TW	800A	K6FHD-M	S6	8.33	10.00	0.63	5.53	11.53

"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13

Charts reference Space Occupied by Disconnect Drawing.

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ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Allen Bradley

Allen Bradley 1494F Disconnect Switches

Fits Enclosure Height 60.13	Fits Enclosure Height 72.13	ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	L	Space Occupied M[1]	N	When A=60.13 P	When A=72.13 P
•	•	N30	30A	No Fuse	—	4.62	6.50	0.63	5.31	11.31
•	•	NF30	30A	30A-250V	H, K, R	6.50	6.50	0.63	5.31	11.31
•	•	NF30	30A	60A-250V	H, K, R	7.25	6.50	0.63	5.31	11.31
•	•	NF30	30A	30A-600V	H, K, R	9.25	6.50	0.63	5.31	11.31
•	•	NF30	30A	60A-600V	H, K, R	9.75	6.50	0.63	5.31	11.31
•	•	NF30	30A	30A-600V	J	6.50	6.50	0.63	5.31	11.31
•	•	NF30	30A	60A-600V	J	6.62	6.50	0.63	5.31	11.31
•	•	N60	60A	No Fuse	—	4.62	6.50	0.63	4.62	10.62
•	•	NF60	60A	30A-600V	H, K, R	10.38	6.50	0.63	4.62	10.62
•	•	NF60	60A	60A-250V	H, K, R	8.38	6.50	0.63	4.62	10.62
•	•	NF60	60A	100A-250V	H, K, R	10.88	6.50	0.63	4.62	10.62
•	•	NF60	60A	60A-600V	H, K, R	10.88	6.50	0.63	4.62	10.62
•	•	NF60	60A	100A-600V	H, K, R	12.88	6.62	0.63	4.62	10.62
•	•	NF60	60A	60A-600V	J	7.75	6.50	0.63	4.62	10.62
•	•	NF60	60A	100A-600V	J	9.75	6.50	0.63	4.62	10.62
	•	N100	100A	No Fuse	—	4.62	7.25	0.63	—	8.75
	•	NF100	100A	100A-250V	H, K, R	11.38	7.38	0.63	—	8.75
	•	NF100	100A	200A-250V	H, K, R	12.25	7.62	0.63	—	8.75
	•	NF100	100A	100A-600V	H, K, R	13.38	7.50	0.63	—	8.75
	•	NF100	100A	200A-600V	H, K, R	14.75	7.75	0.63	—	8.75
	•	NF100	100A	100A-600V	J	10.12	7.38	0.63	—	8.75
	•	NF100	100A	200A-600V	J	10.88	7.50	0.63	—	8.75
	•	N200	200A	No Fuse	—	7.12	10.38	0.56	—	7.125
	•	NF200	200A	200A-250V	H, K, R	15.00	10.38	0.56	—	7.125
	•	NF200	200A	400A-250V	H, K, R	16.56	10.75	0.56	—	7.125
	•	NF200	200A	200A-600V	H, K, R	17.56	10.38	0.56	—	7.125
	•	NF200	200A	400A-600V	H, K, R	19.56	11.00	0.56	—	7.125
	•	NF200	200A	200A-600V	J	13.69	10.38	0.56	—	7.125
	•	NF200	200A	400A-600V	J	15.00	10.62	0.56	—	7.125

[1] "M" dimension does not allow for auxiliary switches. Refer to Allen Bradley instructions if additional space is required.

Allen Bradley 1494D Operators (Circuit Breakers)

Fits Enclosure Height 60.13	Fits Enclosure Height 72.13	Alan Bradley Type Number	Amp Rating	Circuit Breker Type	L	Space Occupied M[1]	N	When A=60.13 P	When A=72.13 P
•	•	N4/N40	150A	C-H Westinghouse EHD,FD,FDB,FDC,HFD,HMCP	5.81	4.56	0.63	5.25	11.25
•	•	N5/N55	225A	General Electric TFK, THFK, TFC	8.81	4.75	0.63	4.44	10.44
•	•	N5/N50	250A	C-H Westinghouse JD,JDB,JDC,HJD,HMCP	8.81	4.75	0.63	4.44	10.44
	•	N5/N60	400A	C-H Westinghouse KD,KDB,DK,HKD,HMCP	8.81	5.88	0.63	—	10.50

[1]"M" dimension does not allow for auxiliary switches. Refer to Allen Bradley instructions if additional space is required.
"K" = 5.88 when "A" = 60.13
"K" = 11.88 when "A" = 72.13 (except 200A switches)
"K" = 10.56 when "A" = 72.13 (200A switches only).

Charts reference Space Occupied by Disconnect Drawing.

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ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Allen Bradley cont'd.

Allen Bradley 1494V Operators (Disconnect Switches)

Fits Enclosure Height 60.13	Fits Enclosure Height 72.13	ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	L	Space Occupied M[2]	N	When A=60.13 P	When A=72.13 P
•	•	DS30	30A	No Fuse	—	3.88	6.75	1.06	6.00	12.00
•	•	DS30	30A	30A-250V	H,K,R	5.25	6.75	1.06	6.00	12.00
•	•	DS30	30A	30A-600V	H,K,R	8.00	6.75	1.06	6.00	12.00
•	•	DS30	30A	30A-600V	J	5.25	6.75	1.06	6.00	12.00
•	•	DS30	30A	60A-250V	H,K	6.00	6.75	1.06	6.00	12.00
•	•	DS30	30A	60A-600V	H,K	8.50	6.75	1.06	6.00	12.00
•	•	DS30	30A	60A-600V	J	5.38	6.75	1.06	6.00	12.00
•	•	DS60	60A	No Fuse	—	3.88	6.75	1.06	5.81	11.81
•	•	DS60	60A	60A-250V	H,K,R	6.00	6.75	1.06	5.81	11.81
•	•	DS60	60A	60A-600V	H,K,R	8.50	6.75	1.06	5.81	11.81
•	•	DS60	60A	60A-600V	J	5.38	6.75	1.06	5.81	11.81
•	•	DS60	60A	30A-600V	H,K,R	8.00	6.75	1.06	5.81	11.81
•	•	DS60	60A	100A-250V	H,K	8.50	6.75	1.06	5.81	11.81
•	•	DS60	60A	100A-600V	H,K	10.50	6.75	1.06	5.81	11.81
•	•	DS60	60A	100A-600V	J	7.25	6.75	1.06	5.81	11.81
•	•	DS100[1]	100A	No Fuse	—	3.88	6.75	1.06	5.81	11.81
•	•	DS100[1]	100A	100A-250V	H,K,R	8.12	6.75	1.06	5.81	11.81
•	•	DS100[1]	100A	100A-600V	H,K,R	10.12	6.75	1.06	5.81	11.81
•	•	DS100[1]	100A	100A-600V	J	6.80	6.75	1.06	5.81	11.81
•	•	DS100[1]	100A	60A-600V	H,K,R	10.12	6.75	1.06	5.81	11.81
•	•	DS100[1]	100A	60A-600V	J	8.88	6.75	1.06	5.81	11.81
	•	DS200[1]	200A	No Fuse	—	4.75	8.00	1.06	—	10.34
	•	DS200[1]	200A	200A-250V	H,K,R	10.88	8.00	1.06	—	10.34
	•	DS200[1]	200A	200A-600V	H,K,R	13.88	8.00	1.06	—	10.34
	•	DS200[1]	200A	200A-600V	J	9.50	8.00	1.06	—	10.34
	•	DS200[1]	200A	100A-600V	H,K,R	12.00	8.00	1.06	—	10.34
	•	DS200[1]	200A	100A-600V	J	8.75	8.00	1.06	—	10.34

[1] Series B
[2] "M" dimension does not allow for auxiliary switches

Allen Bradley 1494V Operators (Circuit Breakers)

Fits Enclosure Height 60.13	Fits Enclosure Height 72.13	Alan Bradley Type Number	Amp Rating	Circuit Breker Type	L	Space Occupied M[1]	N	When A=60.13 P	When A=72.13 P
•	•	M40	15A-150A	C-H Westinghouse EHD,FD,FDB,FDC,HFD,HMCP	5.00	4.62	1.06	7.25	13.25
•	•	M50	70A-250A	C-H Westinghouse JD,JDB,JDC,HJD,HMCP	9.75	4.88	1.06	6.81	12.81
	•	M60	100A-400A	C-H Westinghouse KD,KDB,DK,HKD,HMCP	9.69	6.25	1.06	—	12.62

[1] "M" dimension does not allow for auxiliary switches. Refer to Allen Bradley instructions if additional space is required.
"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13

Charts reference Space Occupied by Disconnect Drawing.

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ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer

Cutler Hammer C361 Disconnect Switches

Fits Enclosure Height		Cutler Hammer Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied			When A=60.13	When A=72.13
60.13	72.13					L	M	N	P	P
•	•	C361NC	30A	No Fuse	—	5.75	7.55	0.63	6.50	12.50
•	•	C361SC21	30A	30A-250V	H, K, R	8.38	7.55	0.63	6.50	12.50
•	•	C361SC61	30A	60A-250V	H, K, R	8.38	7.55	0.63	6.50	12.50
•	•	C361SC61	30A	30A-600V	H, J, K, R	8.38	7.55	0.63	6.50	12.50
•	•	C361ND	60A	No Fuse	—	5.75	7.55	0.63	6.50	12.50
•	•	C361SD22	60A	60A-250V	H, K, R	8.38	7.55	0.63	6.50	12.50
•	•	C361SD22	60A	30A-600V	J	8.38	7.55	0.63	6.50	12.50
•	•	C361SD62	60A	60A-600V	H, K, R	8.38	7.55	0.63	6.50	12.50
•	•	C361SD62	60A	60A-600V	J	8.38	7.55	0.63	6.50	12.50
•	•	C361NE	100A	No Fuse	—	5.56	9.07	0.63	6.06	12.06
•	•	C361SE263	100A	100A-250V	H, K, R	10.31	9.07	0.63	6.06	12.06
•	•	C361SE263	100A	100A-600V	H, K, R	10.31	9.07	0.63	6.06	12.06
•	•	C361SE263	100A	100A-600V	J	10.31	9.07	0.63	6.06	12.06
•	•	C361NF	200A	No Fuse	—	13.06	10.12	0.63	4.06	10.12
•	•	C361SF264	200A	200A-250V	H, K, R	13.06	10.12	0.63	4.06	10.12
•	•	C361SF264	200A	200A-600V	H, K, R, J	13.06	10.12	0.63	4.06	10.12

Cutler Hammer C371 Circuit Breakers (C-H Westinghouse Circuit Breakers)

Fits Enclosure Height		Cutler Hammer Mechanisms	Amp Rating	Frame Type	Space Occupied			When A=60.13	When A=72.13
60.13	72.13				L	M	N	P	P
•	•	C371E	150A	F Frame EHD,FDB,FD,HFD,FDC	6.00	5.62	0.63	7.62	13.62
•	•	C371E	150A	F Frame HMCP	6.00	5.62	0.63	7.62	13.62
[1]	•	C371F	250A	J Frame JDB,JD,HJD,JDC	8.94	8.12	0.63	7.50	13.50
[1]	•	C371F	250A	J Frame HMCP	10.94	8.12	0.63	7.50	13.50
[1]	•	C371F	400A	K Frame DK,KDB,KD,HKD	9.75	8.12	0.63	7.00	13.00
[1]	•	C371F	400A	K Frame HMCP	9.75	8.12	0.63	7.00	13.00
	[2]	C371G	600A	L Frame LD,HLD,LDC	8.44	12.00	0.63	-	11.38
	[2]	C371G	600A	L Frame HMCP	8.44	12.00	0.63	-	11.38

[1]Wire bend space "P" does not allow cable size larger than 4/0 AWG in a 60.13" tall enclosures.
[2]Wire bend space "P" does not allow cable size larger than 300 MCM.
"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13
Charts reference Space Occupied by Disconnect Drawing.

Cutler Hammer continued on next pag

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer cont'd.

Cutler Hammer Flex-Shaft™ Operator Mechanisms (C-H Westinghouse Circuit Breakers)

Complete Operator Mechanisms	Amp Rating	Fram Type	Breaker Height "X" (in inches)	Breaker Width "Y" (in inches)
F1S03	150A	F Frame EHD,FDB,FD,HFD	6.00	4.12
F1S03	150A	F Frame HCMP	6.00	4.12
F2S03	250A	J Frame JDB,JD,HJD,JDC	10.00	4.12
F2S03	250A	J Frame HCMP	10.00	4.12
F3S03	400A	K Frame DK,KDB,KD,HKD	10.12	5.50
F3S03	400A	K Frame HCMP	12.45	5.50
F4S04	600A	L Frame LD,HLD,LDC	10.75	8.25
F7S04	800A	M Frame MD,MDS	16.00	8.25
F5S04	1200A	N Frame ND,HND,NDC	16.00	8.25
F6S04	2500A	R Frame RD,CRD, RDC	16.00	15.50

Part numbers for Complete Operator Mechanisms include flange mounted handle, flexible shaft and circuit breaker mechanism.
The last digit of the part number denotes the shaft length (F1S03=3' length).

- F,J,K frame Flex-Shafts™ available in 3' to 10' lengths.
- L,N,R frame Flex-Shafts™ available in 4' to 6' lengths.

Space Occupied By Disconnect

1. Flex-Shaft™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 4" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric

General Electric Type STDA Disconnect Switch Operators

Fits Enclosure Height		General Electric Switch Mechanisms	Amp Rating	Fuse Clip	Fuse Class	Space Occupied			When A=60.13	When A=72.13
60.13	72.13					L	M	N	P	P
•	•	TDOM1A	30A	No Fuse	-	6.88	5.38	0.63	8.38	14.38
•	•	TDOM1A	30A	30A-250V	H, R	6.88	5.38	0.63	8.38	14.38
•	•	TDOM1B	30A	30A-600V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	30A	60A-250V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	30A	60A-600V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1A	60A	No Fuse	-	6.88	5.38	0.63	8.38	14.38
•	•	TDOM1B	60A	60A-250V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	60A	60A-600V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	60A	100A-250V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	60A	100A-600V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1A	100A	No Fuse	-	6.88	5.38	0.63	8.38	14.38
•	•	TDOM1B	100A	100A-250V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	100A	100A-600V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	100A	200A-250V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM1B	100A	200A-600V	H, R	11.50	5.38	0.63	8.38	14.38
•	•	TDOM2	200A	No Fuse	-	7.00	9.25	0.63	5.69	11.69
•	•	TDOM2	200A	200A-250V	H, R	15.38	9.25	0.63	5.69	11.69
•	•	TDOM2	200A	200A-600V	H, R	15.38	9.25	0.63	5.69	11.69

General Electric Type STDA Circuit Breaker Operators

Fits Enclosure Height		General Electric Circuit Breaker Mechanisms	Amp Rating	Frame Type	Space Occupied			When A=60.13	When A=72.13
60.13	72.13				L	M	N	P	P
•	•	TDOM1A	150A	TEB, TED, THED	6.88	5.38	0.63	7.24	13.24
•	•	TDOM1A	150A	TEC	6.88	5.38	0.63	7.24	13.24
•	•	TDOM1B	150A	TB1	11.50	5.38	0.63	7.24	13.24
•	•	TDOM1B	150A	TEC, TECL	11.50	5.38	0.63	7.24	13.24
•	•	TDOM1C	150A	TEL	6.88	5.38	0.63	7.24	13.24
•	•	TDOM1D	150A	THLC1	6.88	5.38	0.63	5.87	11.87
•	•	TDOM3	225A	TFJ	10.38	5.88	0.63	6.81	12.81
•	•	TDOM3	225A	TFK, THFK, TFL	10.38	5.88	0.63	6.81	12.81
	•	TDOM4	400A	TJJ, TJK4, THJK4, TJL4V	8.25	9.50	0.63	—	11.91
	•	TDOM4	600A	TJK6, THJK6, TJ4V, TJL4V	8.25	9.50	0.63	—	11.91
	•	TDOM5	400A	TB4, TJH6S	14.25	9.50	0.63	—	11.91
	•	TDOM6	225A	TLB2, THLC2	11.75	9.50	0.63	—	11.35
	•	TDOM6	400A	TLB4, THLC4	11.75	9.50	0.63	—	9.97
•	•	SDOM1A	150A	SE150	6.88	5.38	0.63	7.24	13.24
•	•	SDOM3	250A	SPECTRA SF250	10.38	5.88	0.63	6.81	11.88
	•	SDOM4	600A	SPECTRA SG600	10.00	7.12	0.63	—	9.18

"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13

Charts reference Space Occupied by Disconnect Drawing.

...General Electric continued on next page

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric cont'd.

General Electric Circuit Breakers (Spectra-Flex™ Cable Operators)

Fits Enclosure Height 60.13	Fits Enclosure Height 72.13	Frame Size	Max Amp Rating	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
•	•	E150	150A	6.31	4.12
•	•	SE150	150A	6.31	4.12
•	•	SF250	250A	10.12	4.12
•	•	SG600	600A	10.09	5.50
•	•	SK1200	1200A	15.50	8.25

Note: All 2UD,2UDF,2UDCP series enclosures that are 24.00" deep require a 48" or longer operating cable

Frame Size	Breaker Mechanism	Flange Mounting Handle[1]	Operating Cable[2]
E150	SCOM1A	SCH1	SC3L
SE150/SF250	SCOM1EF	SCH1	SC3L
SG600	SCOM1G	SCH1	SC3L
SK1200	SCOM1K	SCH2K	SC3H

[1]Add "X" for NEMA 4 or NEMA 4X Flange mounting handle.
[2]Operating Cables are available 3' to 10' lengths. In the table above, the number "3" in the part number indicates a 3' cable.

Space Occupied By Disconnect
1. GE Spectra-Flex™ Operating Cables permit circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 3" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13

Charts reference Space Occupied by Disconnect Drawing.

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Siemens I-T-E

I-T-E Disconnect Switches (Max-Flex™ Operators)

Fits Enclosure Depth 60.13	72.13	Switch	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
•	•	MCS603R	30A	No Fuse	—	5.52	6.13
•	•	MCS603R	30A	30A-250V	H,K,R	8.11	6.13
•	•	MCS603R	30A	30A-600V	H,K,R	10.11	6.13
•	•	MCS603R	30A	30A-600V	J	8.48	6.13
•	•	MCS606R	60A	No Fuse	—	5.52	6.13
•	•	MCS606R	60A	60A-250V	H,K,R	7.86	6.13
•	•	MCS606R	60A	60A-600V	H,K,R	10.38	6.13
•	•	MCS606R	60A	60A-600V	J	8.36	6.13
•	•	MCS610R	100A	No Fuse	—	7.59	7.38
•	•	MCS610R	100A	100A-250V	H,K,R	11.85	7.38
•	•	MCS610R	100A	100A-600V	H,K,R	13.85	7.38
•	•	MCS610R	100A	100A-600V	J	10.60	7.38
•	•	MCS620R	200A	No Fuse	—	9.00	9.17
•	•	MCS620R	200A	200A-250V	H,K,R	14.70	9.17
•	•	MCS620R	200A	200A-600V	H,K,R	17.20	9.17
•	•	MCS620R	200A	200A-600V	J	13.32	9.17

Note: Enclosures that are 24.13" deep require a 48" Max-Flex™ cable (minimum cable length).

Siemens I-T-E Max-Flex™ Operators (Circuit Breakers)

Complete Operator Mechansim	Amp Rating	Breaker Frame Size	Circuit Breaker Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
FHOE036	125A	ED	ED2, ED4, ED6, HED4, HED6	6.34	3.00
FHOE036	125A	CED	CED6	9.58	3.00
FHOF036	250A	FD	FXD6-A, FD6-A, HFD6, FXD6ETJ, HHFD6, HHFXD6	9.50	4.50
FHOF036	250A	CFD	CFD6, CFD6-ETI	14.25	4.50
FHOJ036	400A, 600A	JD, LD	JXD2, LXD6, JD6, LD6, HJD6, HLD6, HHJD6, HHLD6, HHJXD6, HHLDX6, JXD6-ETI, LXD6-ETI	11.00	7.50
FHOJ036	400A, 600A	CJD,CLD	CJD6, CLD6, CJD6-ETI, CLD6-ETI	17.86	7.50
FHOLMO36	800A	LMD	LMD6, LMXD6, HLMD6, HLMXD6, LMXD6-ETI	16.00	9.00
FHON048	800A, 1200A	MD, ND	MD6, ND6, MXD6, NXD6, HMD6, HND6, HMXD6, HNXD6, CMD6, CND6, MXD6-ETI, CMD6-ETI	.24.00	9.00.
FHONO48	1600A, 2000A	PD,RD	PD6, RD6, PXD6, RXD6, HPD6, HRD6, HPXD6, HRXD6, CPD6	24.50(2)	13.63(2)

Circuit Breaker Size includes required base mounting block.
Last three digits of operator mechanism part number denote cable length in inches.
24" deep enclosures require longer operating cables. Sold separately.
"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13
(Deduct 1.45 inches from "K" for FHONO48 Operator mechanism for MD,ND,PD,RD Circuit Breakers)

Space Occupied By Disconnect

1. Siemens I-T-E Max-Flex™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. See Siemens I-T-E instructions for disconnect location limitations when using 36" or 48" Max-Flex™ cables.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Variable Depth Disconnect Switches

Fits Enclosure Height		Square D Amp Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied			When A=60.13	When A=72.13
60.13	72.13					L	M	N	P	P
•	•	TCN-30	30A	No Fuse	—	3.80	6.97	0.63	6.75	12.75
•	•	TCF-30	30A	30A-250V	H, K, R	5.53	6.97	0.63	6.75	12.75
•	•	TCF-33	30A	30A-600V	H, K, R	8.15	6.97	0.63	6.75	12.75
•	•	TCF-33	30A	60A-250V	H, K, R	6.15	6.97	0.63	6.75	12.75
•	•	TCF-33	30A	30A-600V	J	5.53	6.97	0.63	6.75	12.75
•	•	TDN-60	60A	No Fuse	—	3.80	6.97	0.63	6.75	12.75
•	•	TDF-60	60A	30A-600V	H, K, R	8.15	6.97	0.63	6.75	12.75
•	•	TDF-60	60A	60A-250V	H, K, R	6.15	6.97	0.63	6.75	12.75
•	•	TDF-63	60A	60A-600V	H, K, R	8.65	6.97	0.63	6.75	12.75
•	•	TDF-63	60A	60A-600V	J	5.53	6.97	0.63	6.75	12.75
•	•	TEN-10	100A	No Fuse	—	3.80	6.97	0.63	6.62	12.62
•	•	TEF-10	100A	100A-250V	H, K, R	8.25	6.97	0.63	6.62	12.62
•	•	TEF-10	100A	100A-600V	H, K, R	10.25	6.97	0.63	6.62	12.62
•	•	TEF-10	100A	100A-600V	J	7.05	6.97	0.63	6.62	12.62
•	•	TEF-13	100A	200A-600V	J	—	—	0.63	6.62	12.62
•	•	TC-1	30A	No Fuse	-	5.75	6.12	0.63	5.88	11.88
•	•	TC-2	30A	30A-250V	H, K, R	5.75	6.12	0.63	5.88	11.88
•	•	TC-3	30A	30A-600V	H, K, R	7.75	6.12	0.63	5.88	11.88
•	•	TC-3	30A	60A-250V	H, K, R	5.88	6.12	0.63	5.88	11.88
•	•	TC-3	30A	30A-600V	J	5.75	6.12	0.63	5.88	11.88
•	•	TD-1	60A	No Fuse	—	6.38	6.75	0.63	6.75	12.75
•	•	TD-2	60A	30A-600V	H, K, R	8.50	6.75	0.63	6.75	12.75
•	•	TD-2	60A	60A-250V	H, K, R	6.50	6.75	0.63	6.75	12.75
•	•	TD-3	60A	60A-600V	H, K, R	9.00	6.75	0.63	6.75	12.75
•	•	TD-3	60A	60A-600V	J	6.38	6.75	0.63	6.75	12.75
•	•	TE-1	100A	No Fuse	—	4.75	8.50	0.63	6.50	12.50
•	•	TE-2	100A	100A-250V	H, K, R	7.50	8.50	0.63	6.50	12.50
•	•	TE-2	100A	100A-600V	H, K, R	9.50	8.50	0.63	6.50	12.50
•	•	TE-2	100A	100A-600V	J	6.25	8.50	0.63	6.50	12.50
•	•	TE-3	100A	200A-600V	J	13.75	8.50	0.63	6.50	12.50
•	•	TF-1	200A	No Fuse	—	5.50	11.75	0.63	5.12	11.12
•	•	TF-2	200A	200A-250V	H, K, R	11.50	11.75	0.63	5.12	11.12
•	•	TF-2	200A	200A-600V	H, K, R	14.00	11.75	0.63	5.12	11.12
•	•	TF-2	200A	200A-600V	J	10.12	11.75	0.63	5.12	11.12
•	•	TF-3	200A	400A-600V	J	14.50	11.75	0.63	5.12	11.12

Square D Class 9422 Variable Depth Operators (Circuit Breakers)

Fits Enclosure Depth		Square D Type Number	Amp Rating	Frame Size	Space Occupied			When A=60.13	When A=72.13
60.13	72.13				L	M	N	P	P
•	•	RG-1	75A	GJL	3.53	3.87	0.63	6.69	12.69
•	•	RG-1	100A	GJL	3.53	3.87	0.63	6.69	12.69
•	•	RN-1	100A	FAL, FHL	5.12	5.38	0.63	6.88	12.88
•	•	RP-1	250A	KAL, KHL	7.12	5.75	0.63	7.56	13.56
	•	RR-1	400A	LAL, LHL, Q4L	7.62	8.88	0.63	—	9.25

"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13

Charts reference Space Occupied by Disconnect Drawing...*see page* 180.

...Square D continued on next page

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2UD, 2UDF & 2UDCP Two Door Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Disconnect Switches (Cable Mechanism 9422-CFT30 and 9422A-1 Handle Mechanism)

Fits Enclosure Depth A=60.13 P	Fits Enclosure Depth A=72.13 P	Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
•	•	TCN-30	30A	No Fuse	—	5.90	6.20
•	•	TCF-30	30A	30A-250V	H, K, R	7.50	6.20
•	•	TCF-33	30A	30A-600V	H, K, R	10.15	6.20
•	•	TCF-33	30A	60A-250V	H, K, R	8.15	6.20
•	•	TCF-33	30A	30A-600V	J	7.50	6.20
•	•	TDN-60	60A	No Fuse	—	5.90	6.20
•	•	TDF-60	60A	30A-600V	H, K, R	10.15	6.20
•	•	TDF-60	60A	60A-250V	H, K, R	8.15	6.20
•	•	TDF-63	60A	60A-600V	H, K, R	10.65	6.20
•	•	TDF-63	60A	60A-600V	J	7.5	6.20
•	•	TEN-10	100A	No Fuse	—	5.90	6.20
•	•	TEF-10	100A	100A-250V	H, K, R	10.35	6.20
•	•	TEF-10	100A	100A-600V	H, K, R	10.35	6.20
•	•	TEF-10	100A	100A-600V	J	10.35	6.20

Square D Class 9422 Cable Mechanism (Circuit Breakers)

Fits Enclosure Depth A=60.13 P	Fits Enclosure Depth A=72.13 P	Cable Type Switch	Amp Rating	Fram Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
•	•	9422 CGJ30	75A	GJL	4.75	3.50
•	•	9422 CEJ30	100A	GJL	4.75	3.50
•	•	9422 CFA30	100A	FAL,FHL	6.00	4.50
•	•	9422 CKA30	250A	KAL,KHL	8.00	4.50
•	•	9422 CLA30	400A	LAL,LHL,Q4L	11.00	6.00

Use cable mechanism with circuit breaker and 9422-A1 handle mechanism
Cable operators are offered in 3', 5', and 10' lengths. Last 2 digits of part numbers above (30) are for 3' cables

Space Occupied By Disconnect Switch

1. Square D Cable System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select cable mechanism length based on disconnect location in enclosure. See Square D instructions for minimum cable bend radius.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)

"K" = 7.88 when "A" = 60.13
"K" = 13.88 when "A" = 72.13

Charts reference Space Occupied by Disconnect Drawing...*see page* 180.

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



3UHD Shown

Inner Panel Included

Application

- Designed to accept the following disconnect switches and circuit breakers:
- **ABB Controls** flange mounted variable depth operating mechanisms for disconnect switches and circuit breakers.
- **Allen Bradley** 1494F flange mounted disconnect switches and 1494D flange mounted operators for circuit breakers. Allen Bradley 1494V variable depth flange mounted disconnect switches and circuit breaker mechanisms.
- **C-H Westinghouse** type C361 disconnect switches and operator mechanism. Cutler Hammer Type C371 circuit breaker operating mechanisms. Flex-Shaft™ handle operators for circuit breakers.
- **General Electric** type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra-Flex™ cable operators for circuit breakers.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth operating handles for disconnect switches and circuit breakers.
- **Square D** disconnect switches and circuit breakers used with Class 9422 flange mounted variable depth operating mechanisms or cable mechanisms. These enclosures will not receive Class 9422 bracket mounted disconnect devices or class 9422TG1 or TG2 devices.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - JIC EGP-1-1967 and EMP-1-1967
  - IEC 60529, IP54
  - Appropriate components are required to maintain these standards.

Construction

- Formed from 10 gauge steel with smooth, continuously welded seams.
- Body stiffeners are provided in the larger enclosures for extra rigidity.
- Flange trough collar (FTC) around door opening excludes liquids and contaminants.
- Heavy duty lifting eyes are anchored into reinforced top corners.
- Removable doors are secured with heavy duty lift off hinges.
- Formed 10 gauge steel inner panels are provided on collar studs.
- Panel supports are provided.
- Center post is removable, providing easy panel installation.
- Heavy duty three point latching mechanism with heavy duty roller ends is provided for ease of door closing.
- Oil resistant gaskets are permanently secured.
- The right-hand door on all enclosures is the master door.
- Master door handle complete with screw defeater and padlock hasp.
- Slave door handle complete with padlock hasp.
- A mechanical interlock activated by the master door prevents the auxiliary door from being opened first.
- The universal flange cutout provides mounting for disconnect operators by use of the appropriate operator adaptor kit.
- A provision for mounting fluorescent lighting is provided.
- A bonding stud is provided in the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided for the inside of the door.

Note:

- Disconnect switches, circuit breakers and operators are not provided with the enclosure, and must be ordered separetely from the manufacturer.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Interior - white powder coating.
- Inner panel is finished in white powder coating.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

Quality Enclosures. Service Excellence.

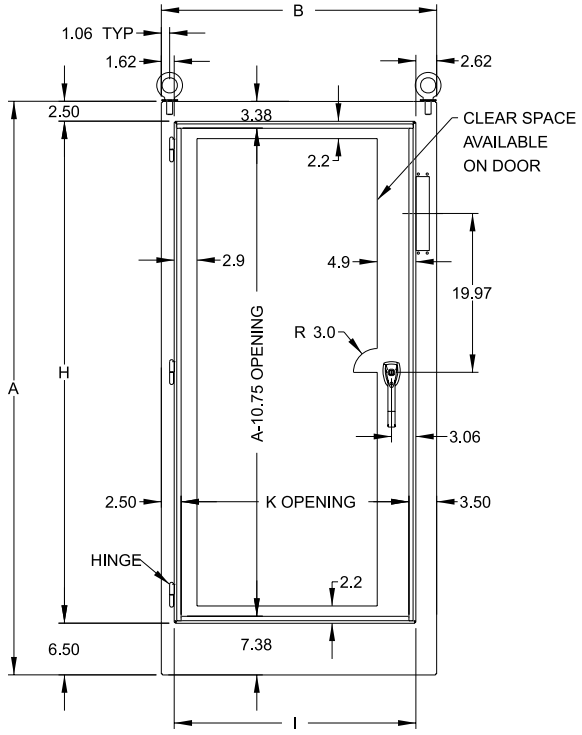
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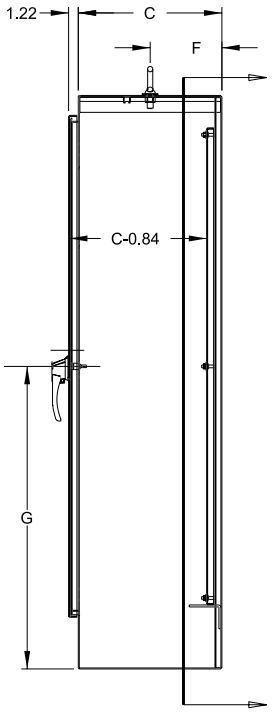
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1UHD Heavy Duty Disconnect Enclosures - NEMA 12

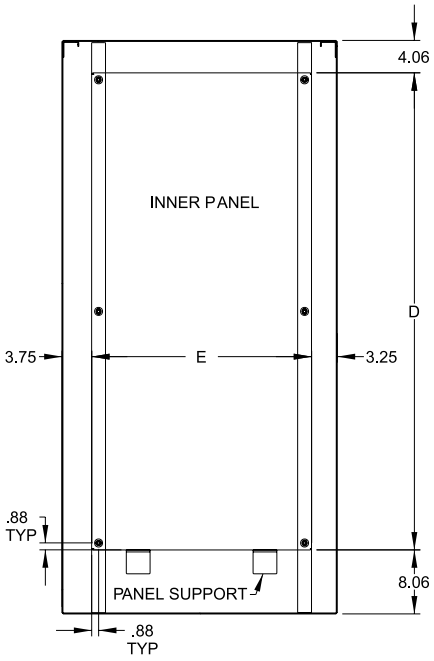
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Front View



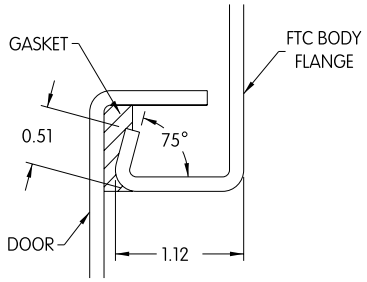
Side View



Rear View (Cross Section)

Accessories

- Additional inner panels...*see factory*
- Air conditioners...*see page* ***388-405***
- Blank adaptor plates...*see page* ***188***
- Blowers...*see page* ***407***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Filter fans...*see page* ***408-414***
- Floor stand kits...*see page* ***448***
- Heaters...*see page* ***418-420***
- Light kits...*see page* ***245***
- Operator adaptor kits...*see page* ***206***
- Thermostats...*see page* ***421***



Part No.	Overall Dimensions			Panel Size							Ship Wt. lbs
	A	B	C	D	E	F	G	H	I	K	
1UHD722918FTC	72.13	28.75	18.13	60	21.75	9.06	38.06	63.13	24.5	22.75	433
1UHD723518FTC	72.13	34.75	18.13	60	27.75	9.06	38.06	63.13	30.5	28.75	499
1UHD724118FTC	72.13	40.75	18.13	60	33.75	9.06	38.06	63.13	36.5	34.75	565
1UHD844118FTC	84.13	40.75	18.13	72	33.75	9.06	44.06	75.13	36.5	34.75	650
1UHD904120FTC	90.13	40.75	20.13	78	33.75	10.06	47.06	81.13	36.5	34.75	718
1UHD904124FTC	90.13	40.75	24.13	78	33.75	12.06	47.06	81.13	36.5	34.75	766

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

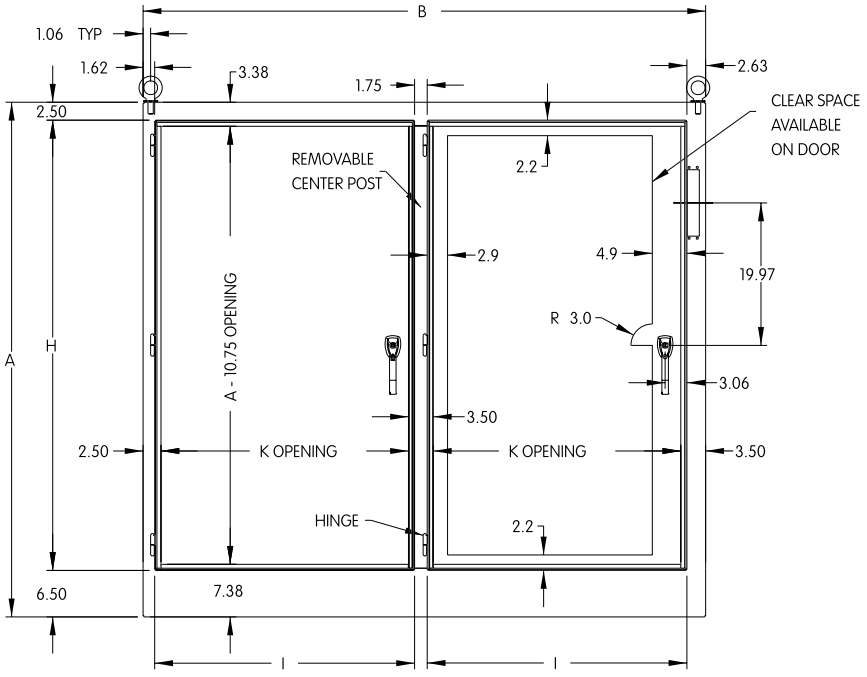
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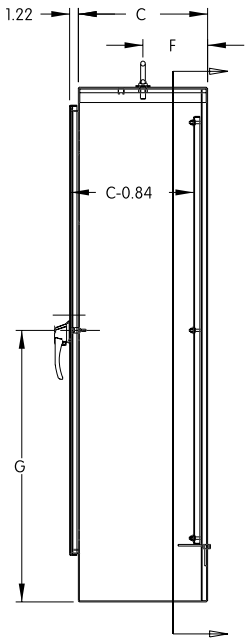
Data Subject to change without notice

2UHD Two Door Heavy Duty Disconnect Enclosures - NEMA 12

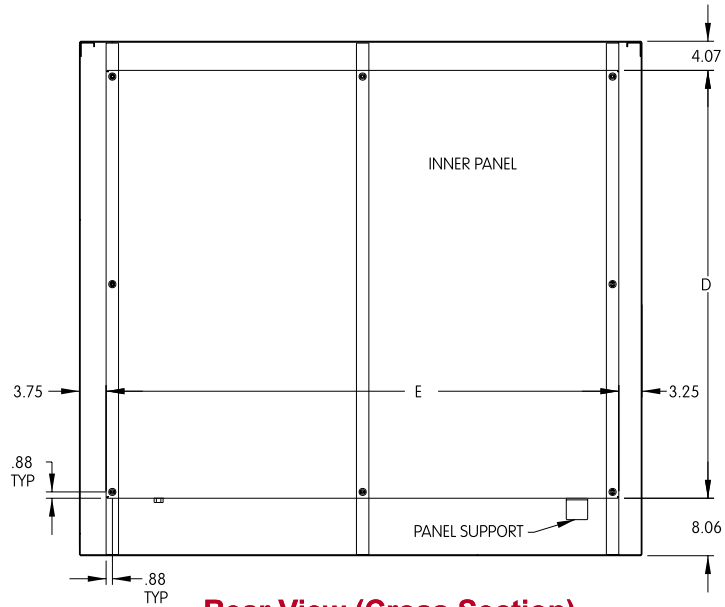
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



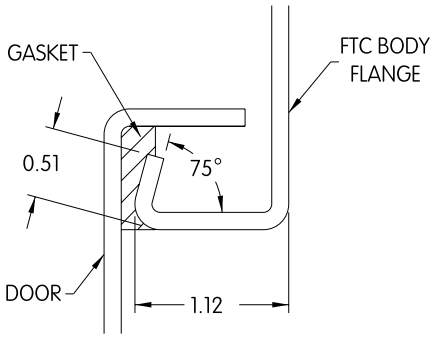
Front View



Side View



Rear View (Cross Section)



Part No.	Overall Dimensions A	B	C	Panel Size D	E	F	G	H	I	K	Ship Wt. lbs
2UHD725518FTC	72.13	55	18.13	60	48	9.06	38.06	63.13	24.5	22.75	751
2UHD726718FTC	72.13	67	18.13	60	60	9.06	38.06	63.13	30.5	28.75	903
2UHD727918FTC	72.13	79	18.13	60	72	9.06	38.06	63.13	36.5	34.75	1036
2UHD727924FTC	72.13	79	24.13	60	72	12.06	38.06	63.13	36.5	34.75	1199
2UHD847918FTC	84.13	79	18.13	72	72	9.06	44.06	75.13	36.5	34.75	1121
2UHD907920FTC	90.13	79	20.13	78	72	10.06	47.06	81.13	36.5	34.75	1297
2UHD907924FTC	90.13	79	24.13	78	72	12.06	47.06	81.13	36.5	34.75	1356

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

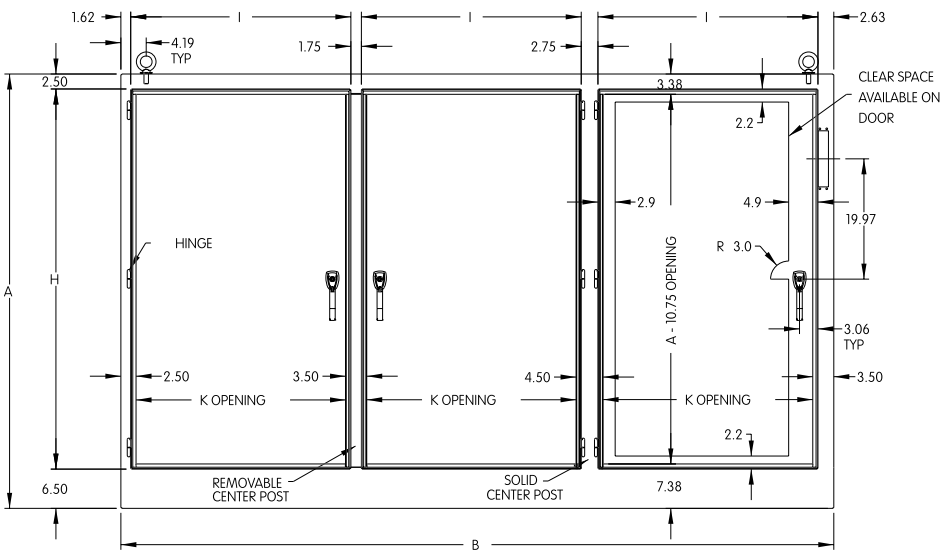
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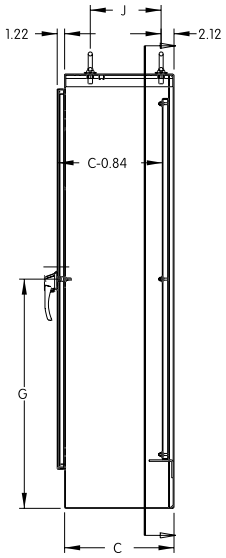
Data Subject to change without notice

3UHD Two Door Heavy Duty Disconnect Enclosures - NEMA 12

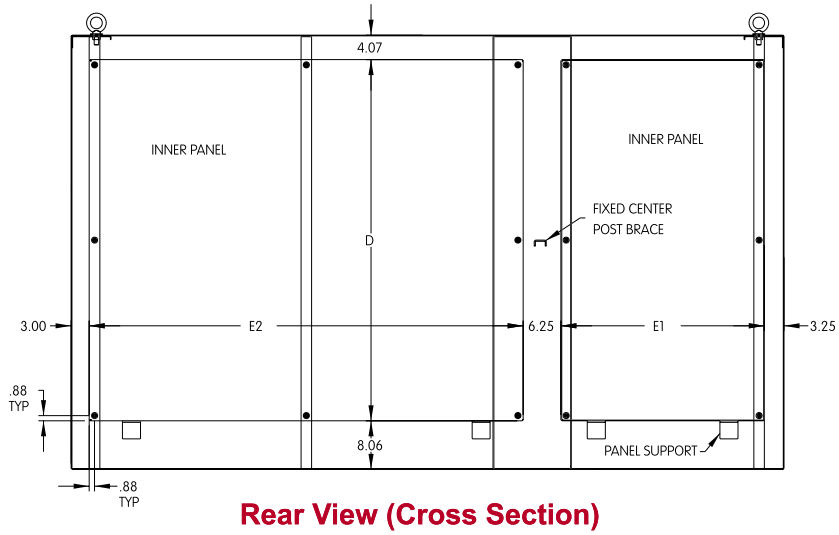
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



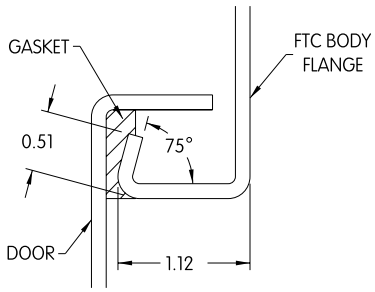
Front View



Side View



Rear View (Cross Section)



Part No.	Overall Dimensions A	B	C	D	Panel Size E¹	E²	G	H	I	J	K	Ship Wt. lbs
3UHD7210118FTC	72.13	100.25	18.13	60	27.75	60	38.06	63.13	30.5	11.75	28.75	1269
3UHD7211918FTC	72.13	118.25	18.13	60	33.75	72	38.06	63.13	36.5	11.75	34.75	1497
3UHD8411918FTC	84.13	118.25	18.13	72	33.75	72	44.06	75.13	36.5	11.75	34.75	1727
3UHD9011924FTC	90.13	118.25	24.13	78	33.75	72	47.06	81.13	36.5	17.75	34.75	1958

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

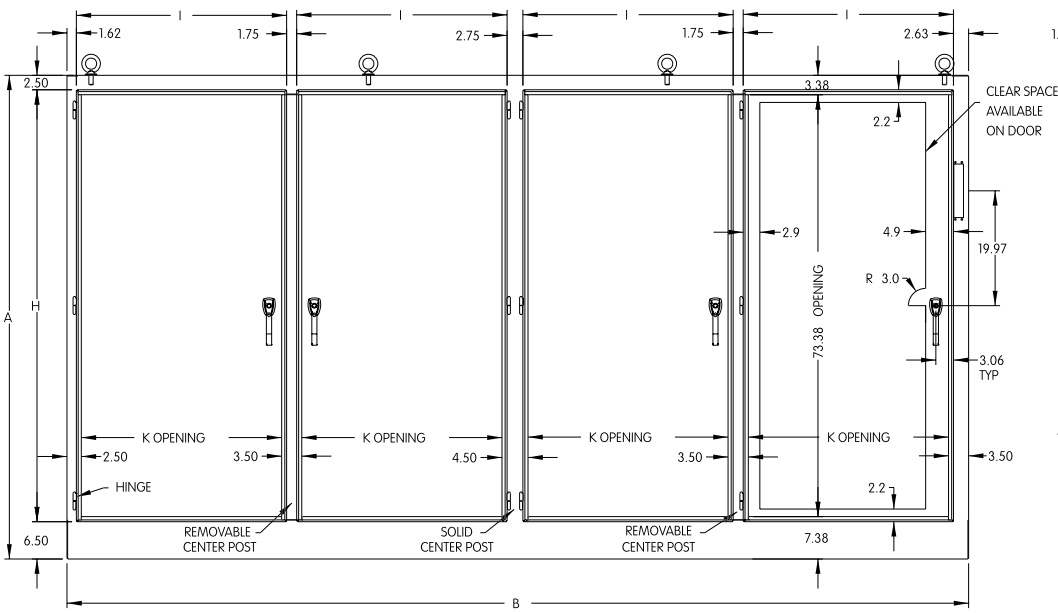
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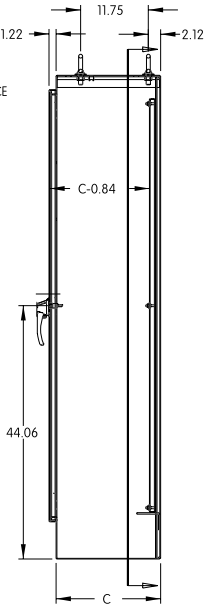
Data Subject to change without notice

4UHD Four Door Heavy Duty Disconnect Enclosures - NEMA 12

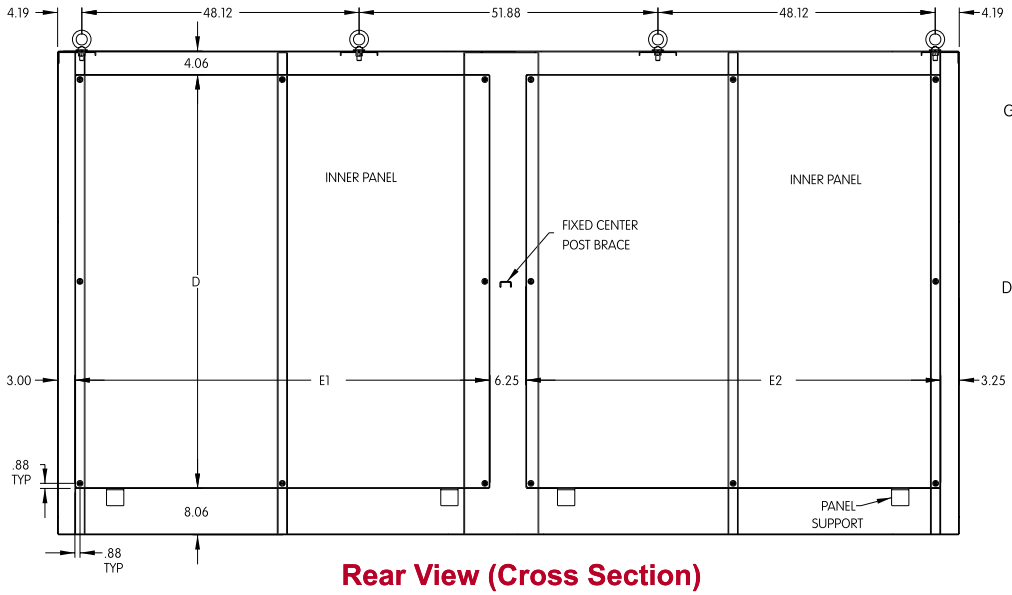
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



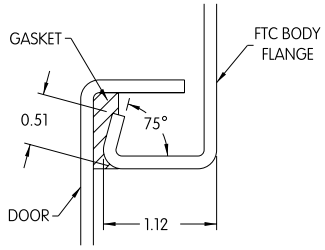
Front View



Side View



Rear View (Cross Section)



Part No.	Overall Dimensions				Panel Size					Ship
	A	B	C	D	E¹	E²	H	I	K	Wt. lbs
4UHD8415718FTC	84.13	156.5	18.13	72	72	72	75.13	36.5	34.75	2271

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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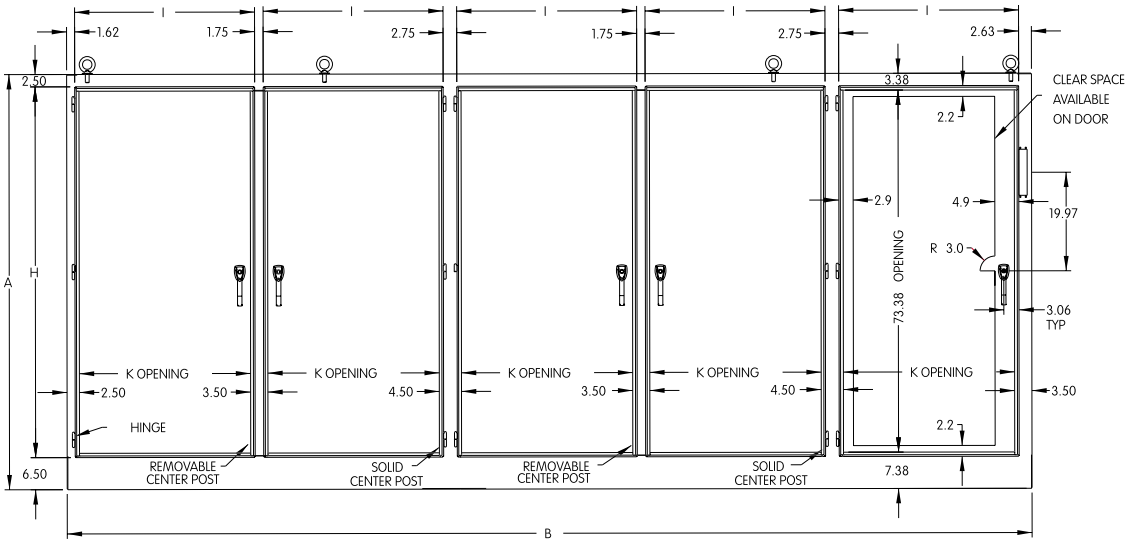
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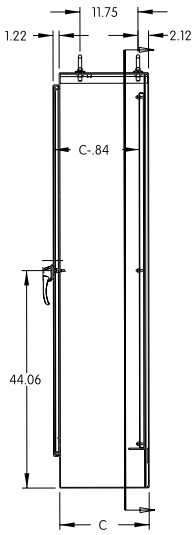
Data Subject to change without notice

5UHD Five Door Heavy Duty Disconnect Enclosures - NEMA 12

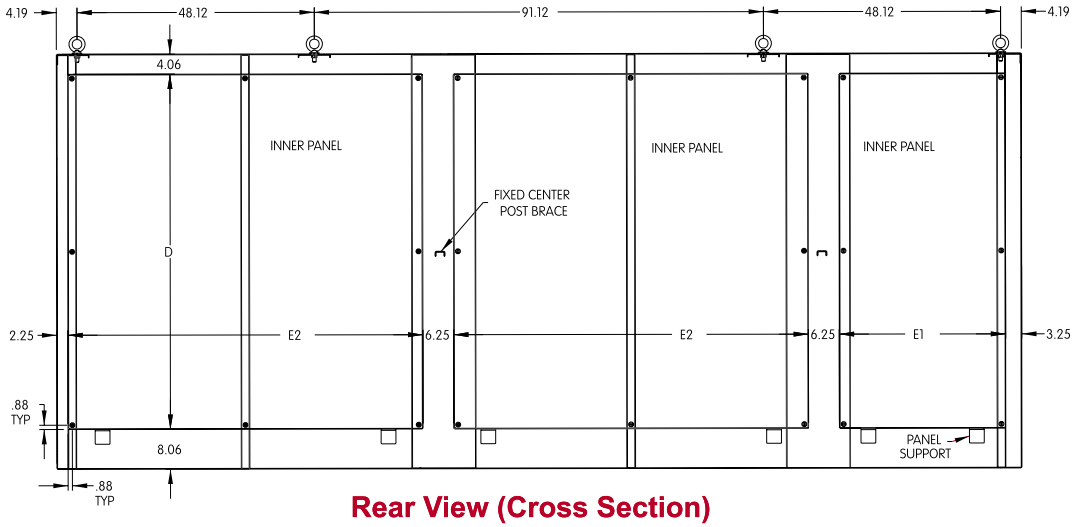
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



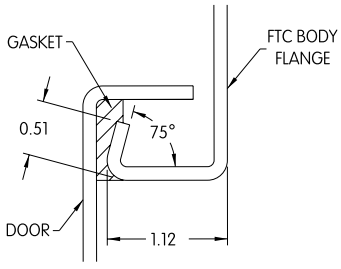
Front View



Side View



Rear View (Cross Section)



Part No.	Overall Dimensions A	B	C	D	Panel Size E^1	E^2	H	I	K	Ship Wt. lbs
5UHD8419518FTC	84.13	195.75	18.13	72	33.75	72	75.13	36.5	34.75	2820

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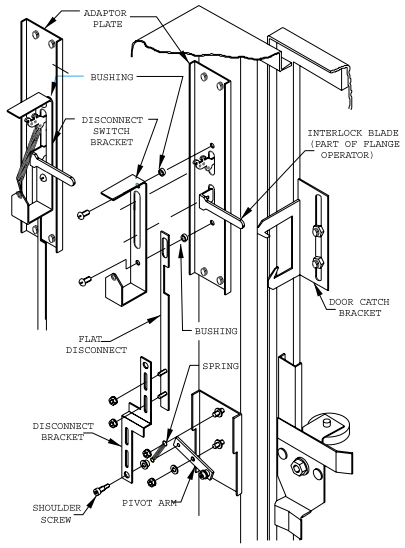
UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

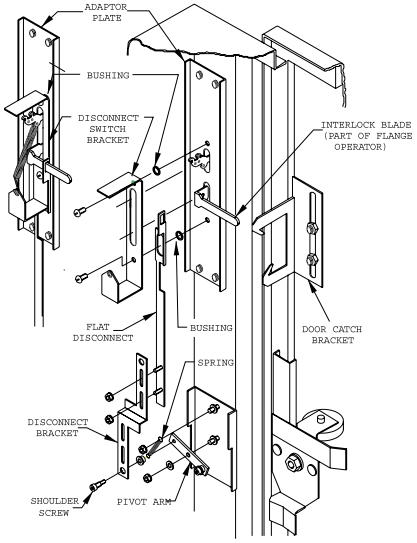
Operator Adaptor Kits

- All Universal series enclosures require one adaptor kit (ordered separately) to adapt the type of disconnect and mechanism to be used.
- Each brand and type requires a different adaptor kit.
- Each kit contains an adaptor plate and master door interlocking mechanism.
- Fully detailed, illustrated instructions included.

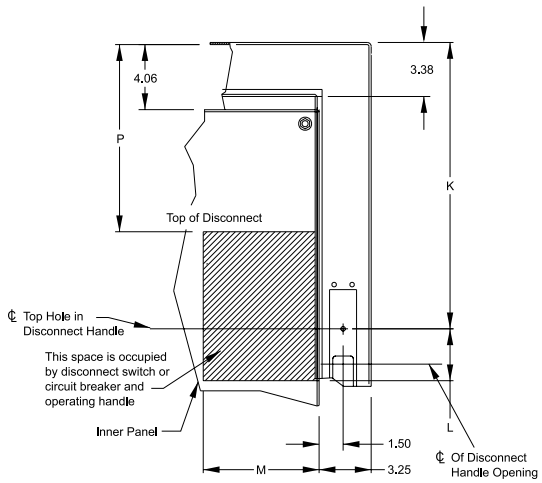
Version Shown
Allen Bradley - 1494V H1



Version Shown
Allen Bradley - 1494V H2



Part No.	Operator Make	Type
AKU	**ABB Controls** operating handle	
	Disconnect Switch	DSFHN-HS12
	Circuit Breaker	K7FHD-HS12
	Allen Bradley variable depth operating handle	
	Disconnect Switch	
	30-200	1494V H1
	400-600	1494V H2
	Circuit breaker	1494V H11
	Cutler Hammer operating handle	
	Disconnect Switch	C361H1 or H3
	Circuit Breaker	
	• 150A	C371H1 or H3
	• 50 to 1200A	C371H5 or H7
	Circuit Breaker C371 Flex-Shaft™ handle mechanism.	
	General Electric operating handle	
	Disconnect Switch	STDA1or STDA2
	Circuit Breaker	STDA1or STDA2
	Circuit Breaker Spectra-Flex™ cable operators	
	• 150 to 600A	STDA1
	• K1200	STDA3
	Siemens I-T-E Max-Flex™ operating handle	
	Disconnect Switch variable depth	FHOHS
	Circuit Breaker	
	• 125 to 600	FHOH
	• 800 to 2000	FHOHN
	Square D class 9422 operating mechanism	
	Disconnect Switch variable depth	9422 type A1
	Circuit Breaker variable depth	9422 type A1
	Disconnect Switch with cable mechanism	9422 type A1
	Circuit Breaker with cable mechanism	9422 type A1
AK1494FD	Allen Bradley	1494F and D
BPAK	Blank Adapter Plate	



Space Occupied by Disconnects

Note: Disconnects will occupy space on panel shown by dimensions "K", "L", and "M". Wiring space "P" is available when disconnect is installed in the enclosure.***The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing not responsible for dimensional accuracy.**

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect Ordering Information

ABB Controls

Disconnect switch:

- Flange operated switch (fusible or non-fusible)
- Shaft:
  - 18.13" deep enclosures use DSFHS-17
  - 20.13" deep enclosures use DSFHS-22
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Hhandle: DSFHN-HS12

Circuit breaker:

- Circuit breaker: ABB
- Operating mechanism
- Shaft
  - 18.13" deep enclosures use K7FHD-S17
  - 20.13" deep enclosures use K7FHD-S22
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Handle mechanism: K7FHD-HS12

Allen Bradley

Bulletin 1494F flange mounted disconnect switch:

- Disconnect switch
- Fuse block adaptor (if required)
- Line and load connectors (if required)

1494D flange mounted circuit breaker operating mechanism:

- Circuit breaker: C-H Westinghouse
- Flange mounted operating mechanism
- Slide mechanism

Bulletin 1494V flange mounted disconnect switch:

- Disconnect switch
- Operating handle
- Connecting rod/rods (long)
- Trailer fuse block kit (if required)
- Fuse clip kit (if required)
- Line and load connectors (if required)

Bulletin 1494V flange mounted circuit breaker operating mechanism:

- Circuit breaker: C-H Westinghouse
- Operating mechanism
- Operating handle
- Connecting rod (long)

C-H Westinghouse

Type C361 disconnect switch, order:

- Disconnect switch with an operating mechanism
- Operating handle: C361H1 or C361H3
- In 24.13" deep enclosures, platform must be used with shaft (not included)

Type C371 circuit breaker operating mechanism with a C-H Westinghouse circuit breaker:

- Circuit breaker
- Operating mechanism
- Long operating rod (if required)
- Operating handle:
  - 150A - C371H1 or C371H3;
  - 250 through 1200A - C371H5 or C371H7

Flex-Shaft™ handle mechanism:

- Circuit breaker
- Complete Flex-Shaft™ handle mechanism

General Electric

Disconnect switch:

- Disconnect switch: Type QMR or QMW
- Fuse clip kit or no-fuse kit
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)

Circuit breaker:

- Circuit breaker
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)

Circuit breaker with a Spectra-Flex™ cable operator:

- Circuit breaker
- Blange mounted handle mechanism:
  - 150 to 600 amps - STDA1
  - SK1200 - STDA3
- Breaker mounted mechanism
- Operating cable

I-T-E Siemens

Disconnect switch:

- Basic switch (right-hand)
- Fuse or no-fuse kit
- Flange mounted handle: FHOHS
- Switch operator
- Operating cable: FHOEC048

Circuit breaker:

- Circuit breaker
- Pressure wire connectors
- Flange mounted handle:
  - 100 to 600 - FHOH
  - 800 to 2000 - FHOHN
- Circuit breaker operator mechanism
- Operating cable:
  - 18.13" deep or 24.13" deep enclosures accept 36" or 48" cables;
  - 24.13" deep enclosures require a 48" cable
- These items are available from I-T-E as a complete mechanism with a 36" operating cable only Order items separately when using a 48" cable

Square D

Disconnect switch:

- Disconnect switch with operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

Circuit breaker:

- Circuit breaker
- Operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

When using a Class 9422 Type T disconnect switch with a cable mechanism, order:

- Disconnect switch with operating mechanism: Class 9422, Type T
- Handle mechanism: Class 9422, Type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot

Circuit breaker with a cable mechanism:

- Circuit breaker: Square D
- Handle mechanism: Class 9422, type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

ABB Controls

ABB Controls Disconnect Switches (Flange-Mounted Operators)

Fits Enclosure Height			ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13					L	M	P	P	P
•	•	•	OETL-NF30-F	30A	No Fuse	—	4.78	7.72	11.80	17.80	20.80
•	•	•	OETL-NF60-F	60A	No Fuse	—	4.78	7.40	11.80	17.80	20.80
•	•	•	OETL-NF100-F	100A	No Fuse	—	5.22	8.78	11.37	17.37	20.37
•	•	•	OETL-NF175-F	175A	No Fuse	—	5.07	7.68	10.48	16.48	19.48
•	•	•	OETL-NF200-F	200A	No Fuse	—	5.07	8.47	10.48	16.48	19.48
•	•	•	OESA-F30J6-F	30A	30A-600V	J	4.78	7.72	11.80	17.80	20.80
•	•	•	OESA-F60J6-F	60A	60A-600V	J	4.78	7.40	11.80	17.80	20.80
•	•	•	OESA-F100J6-F	100A	100A-600V	J [1]	5.22	8.78	11.37	17.37	20.37
				200A [2]							

[1]J type fuse clips are standard. If 600 V Type "T" fuse clips are desired, order T type fuse adaptor
[2]200 A available by using non-fusible 200A switch and a trailing fuse block (consult ABB)

ABB Controls Circuit Breakers (Flange-Mounted Operators)

Fits Enclosure Height			ISOMAX Circuit Breaker	Amp Rating	Operating Mechanism	Frame Type	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13					L	M	P	P	P
•	•	•	**S1N100TL**	100A	**K2FHD-M**	S1	5.30	4.57	12.33	18.33	21.33
•	•	•	**S3N150TW**	150A	**K3FHD-M**	S3	6.67	4.99	11.73	17.73	20.73
•	•	•	**S3N225TW**	225A	**K3FHD-M**	S3	6.67	4.99	11.73	17.73	20.73
•	•	•	**S4N250BW**	250A	**K4FHD-M**	S4	8.45	4.99	10.20	16.20	19.20
•	•	•	**S5N400TW**	400A	**K5FHD-M**	S5	8.45	6.37	10.20	16.20	19.20
•	•	•	**S6N600TW**	600A	**K6FHD-M**	S6	8.33	9.97	9.53	15.53	18.53
•	•	•	**S6N800TW**	800A	**K6FHD-M**	S6	8.33	9.97	9.53	15.53	18.53

"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13

Charts reference Space Occupied by Disconnect Drawing.

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All dimensions in inches unless specified otherwise

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Allen Bradley

Allen Bradley 1494F Disconnect Switches

Fits Enclosure Height			Allen Bradley Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13					L	M[1]	P	P	P
•	•	•	N30	30A	No Fuse	—	4.62	6.50	9.31	15.31	18.31
•	•	•	NF30	30A	30A-250V	H, K, R	6.50	6.50	9.31	15.31	18.31
•	•	•	NF30	30A	60A-250V	H, K, R	7.25	6.50	9.31	15.31	18.31
•	•	•	NF30	30A	30A-600V	H, K, R	9.25	6.50	9.31	15.31	18.31
•	•	•	NF30	30A	60A-600V	H, K, R	9.75	6.50	9.31	15.31	18.31
•	•	•	NF30	30A	30A-600V	J	6.50	6.50	9.31	15.31	18.31
•	•	•	NF30	30A	60A-600V	J	6.62	6.50	9.31	15.31	18.31
•	•	•	N60	60A	No Fuse	—	4.62	6.50	8.62	14.62	17.62
•	•	•	NF60	60A	30A-600V	H, K, R	10.38	6.50	8.62	14.62	17.62
•	•	•	NF60	60A	60A-250V	H, K, R	8.38	6.50	8.62	14.62	17.62
•	•	•	NF60	60A	100A-250V	H, K, R	10.88	6.50	8.62	14.62	17.62
•	•	•	NF60	60A	60A-600V	H, K, R	10.88	6.50	8.62	14.62	17.62
•	•	•	NF60	60A	100A-600V	H, K, R	12.88	6.62	8.62	14.62	17.62
•	•	•	NF60	60A	60A-600V	J	7.75	6.50	8.62	14.62	17.62
•	•	•	NF60	60A	100A-600V	J	9.75	6.50	8.62	14.62	17.62
•	•	•	N100	100A	No Fuse	—	4.62	7.25	6.75	12.75	15.75
•	•	•	NF100	100A	100A-250V	H, K, R	11.38	7.38	6.75	12.75	15.75
•	•	•	NF100	100A	200A-250V	H, K, R	12.25	7.62	6.75	12.75	15.75
•	•	•	NF100	100A	100A-600V	H, K, R	13.38	7.50	6.75	12.75	15.75
•	•	•	NF100	100A	200A-600V	H, K, R	14.75	7.75	6.75	12.75	15.75
•	•	•	NF100	100A	100A-600V	J	10.12	7.38	6.75	12.75	15.75
•	•	•	NF100	100A	200A-600V	J	10.88	7.50	6.75	12.75	15.75
•	•	•	N200	200A	No Fuse	—	7.12	10.38	5.12	11.12	14.12
•	•	•	NF200	200A	200A-250V	H, K, R	15.00	10.38	5.12	11.12	14.12
•	•	•	NF200	200A	400A-250V	H, K, R	16.56	10.75	5.12	11.12	14.12
•	•	•	NF200	200A	200A-600V	H, K, R	17.56	10.38	5.12	11.12	14.12
•	•	•	NF200	200A	400A-600V	H, K, R	19.56	11.00	5.12	11.12	14.12
•	•	•	NF200	200A	200A-600V	J	13.69	10.38	5.12	11.12	14.12
•	•	•	NF200	200A	400A-600V	J	15.00	10.62	5.12	11.12	14.12

[1]"M" dimension does not allow for auxiliary switches. Refer to Allen Bradley instructions if additional space is required.Allen Bradley 1494D Operators (Circuit Breakers)

Allen Bradley 1494D Operators (Circuit Breakers)

Fits Enclosure Height			Alan Bradley Type Number	Amp Rating	Circuit Breker Type	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13				L	M[1]	P	P	P
•	•	•	N4/N40	150A	C-H Westinghouse EHD, FD, FDB, FDC, HFD, HMCP	5.81	4.56	9.25	15.25	18.25
•	•	•	N5/N50	250A	C-H Westinghouse JD, JDB, JDC, HJD, HMCP	8.81	4.75	8.44	14.44	17.44
•	•	•	N5/N60	400A	C-H Westinghouse KD, KDB, DK, HKD, HMCP	8.81	5.88	8.50	14.50	17.50

[1]"M" dimension does not allow for auxiliary switches. Refer to Allen Bradley instructions if additional space is required.

"K" =	9.88	when	"A" =	72.13	(except 200A switch)	"K" =	8.56	when	"A" =	72.13	(200A switch)
"K" =	15.88	when	"A" =	84.13	(except 200A switch)	"K" =	14.56	when	"A" =	84.13	(200A switch)
"K" =	18.88	when	"A" =	90.13	(except 200A switch)	"K" =	17.56	when	"A" =	90.13	(200A switch)

Charts reference Space Occupied by Disconnect Drawing.

...Allen Bradley continued on next page

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Allen Bradley cont'd.

Allen Bradley 1494V Disconnect Switches

Fits Enclosure Height			ABB Switch Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13					L	M[1]	P	P	P
•	•	•	**DS30**	30A	No Fuse	—	3.88	6.75	10.00	16.00	19.00
•	•	•	**DS30**	30A	30A-250V	H,K,R	5.25	6.75	10.00	16.00	19.00
•	•	•	**DS30**	30A	30A-600V	H,K,R	8.00	6.75	10.00	16.00	19.00
•	•	•	**DS30**	30A	30A-600V	J	5.25	6.75	10.00	16.00	19.00
•	•	•	**DS30**	30A	60A-250V	H,K	6.00	6.75	10.00	16.00	19.00
•	•	•	**DS30**	30A	60A-600V	H,K	8.50	6.75	10.00	16.00	19.00
•	•	•	**DS30**	30A	60A-600V	J	5.38	6.75	10.00	16.00	19.00
•	•	•	**DS60**	60A	No Fuse	—	3.88	6.75	9.81	15.81	18.81
•	•	•	**DS60**	60A	60A-250V	H,K,R	6.00	6.75	9.81	15.81	18.81
•	•	•	**DS60**	60A	60A-600V	H,K,R	8.50	6.75	9.81	15.81	18.81
•	•	•	**DS60**	60A	60A-600V	J	5.38	6.75	9.81	15.81	18.81
•	•	•	**DS60**	60A	30A-600V	H,K,R	8.00	6.75	9.81	15.81	18.81
•	•	•	**DS60**	60A	100A-250V	H,K	8.50	6.75	9.81	15.81	18.81
•	•	•	**DS60**	60A	100A-600V	H,K	10.50	6.75	9.81	15.81	18.81
•	•	•	**DS60**	60A	100A-600V	J	7.25	6.75	9.81	15.81	18.81
•	•	•	**DS100[2]**	100A	No Fuse	—	3.88	6.75	9.81	15.81	18.81
•	•	•	**DS100[2]**	100A	100A-250V	H,K,R	8.12	6.75	9.81	15.81	18.81
•	•	•	**DS100[2]**	100A	100A-600V	H,K,R	10.12	6.75	9.81	15.81	18.81
•	•	•	**DS100[2]**	100A	100A-600V	J	6.80	6.75	9.81	15.81	18.81
•	•	•	**DS100[2]**	100A	60A-600V	H,K,R	10.12	6.75	9.81	15.81	18.81
•	•	•	**DS100[2]**	100A	60A-600V	J	8.88	6.75	9.81	15.81	18.81
•	•	•	**DS200[2]**	200A	No Fuse	—	4.75	8.00	8.34	14.34	17.34
•	•	•	**DS200[2]**	200A	200A-250V	H,K,R	10.88	8.00	8.34	14.34	17.34
•	•	•	**DS200[2]**	200A	200A-600V	H,K,R	13.88	8.00	8.34	14.34	17.34
•	•	•	**DS200[2]**	200A	200A-600V	J	9.50	8.00	8.34	14.34	17.34
•	•	•	**DS200[2]**	200A	100A-600V	H,K,R	12.00	8.00	8.34	14.34	17.34
•	•	•	**DS200[2]**	200A	100A-600V	J	8.75	8.00	8.34	14.34	17.34
	•	•	**DS400**	400A	No Fuse	—	10.75	11.00		10.14	13.14
	•	•	**DS400**	400A	400A-250V	H,K,R	16.12	11.00		10.14	13.14
	•	•	**DS400**	400A	400A-600V	H,K,R	19.12	11.00		10.14	13.14
	•	•	**DS400**	400A	400A-600V	J	14.62	11.00		10.14	13.14
		•	**DS600**	600A	No Fuse	—	10.75	11.00			13.14
		•	**DS600[3]**	600A	600A-250V	H,R	10.75	11.00			13.14
		•	**DS600[3]**	600A	600A-600V	H,R	10.75	11.00			13.14
		•	**DS600**	600A	600A-600V	J	17.59	11.00			13.14

[1]Series B
[2]"M" dimension does not allow for auxiliary switches

Allen Bradley 1494V Operators (Circuit Breakers)

Fits Enclosure Height			Alan Bradley Type Number	Amp Rating	Frame Type	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13				L	M[1]	P	P	P
•	•	•	M40	15A-150A	C-H Westinghouse EHD,FD,FDB,FDC,HFD,HMCP	5.00	4.62	11.25	17.25	20.25
•	•	•	M50	70A-250A	C-H Westinghouse JD,JDB,JDC,HJD,HMCP	9.75	4.88	10.81	16.81	19.81
•	•	•	M60	100A-400A	C-H Westinghouse KD,KDB,DK,HKD,HMCP	9.69	6.25	10.62	16.62	19.62

[1]"M" dimension does not allow for auxiliary switches. Refer to Allen Bradley instructions if additional space is required.
"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13, except 400A or 600A switches
"K" = 20.88 when "A" = 90.13, except 400A or 600A switches
"K" = 16.43 when "A" = 84.13, 400A switches only
"K" = 19.43 when "A" = 90.13, 400A and 600A switches only

Charts reference Space Occupied by Disconnect Drawing.

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer

Cutler Hammer C361 Disconnect Switches

Fits Enclosure Height			Cutler Hammer Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13					L	M	P	P	P
•	•	•	C361NC	30A	No Fuse	—	5.75	7.55	10.50	16.50	19.50
•	•	•	C361SC21	30A	30A-250V	H, K, R	8.38	7.55	10.50	16.50	19.50
•	•	•	C361SC61	30A	60A-250V	H, K, R	8.38	7.55	10.50	16.50	19.50
•	•	•	C361SC61	30A	30A-600V	H, J, K, R	8.38	7.55	10.50	16.50	19.50
•	•	•	C361ND	60A	No Fuse	—	5.75	7.55	10.50	16.50	19.50
•	•	•	C361SD22	60A	60A-250V	H, K, R	8.38	7.55	10.50	16.50	19.50
•	•	•	C361SD22	60A	30A-600V	J	8.38	7.55	10.50	16.50	19.50
•	•	•	C361SD62	60A	60A-600V	H, K, R	8.38	7.55	10.50	16.50	19.50
•	•	•	C361SD62	60A	60A-600V	J	8.38	7.55	10.50	16.50	19.50
•	•	•	C361NE	100A	No Fuse	—	5.56	9.07	10.06	16.06	19.06
•	•	•	C361SE263	100A	100A-250V	H, K, R	10.31	9.07	10.06	16.06	19.06
•	•	•	C361SE263	100A	100A-600V	H, K, R	10.31	9.07	10.06	16.06	19.06
•	•	•	C361SE263	100A	100A-600V	J	10.31	9.07	10.06	16.06	19.06
•	•	•	C361NF	200A	No Fuse	—	13.06	10.12	8.06	14.12	17.12
•	•	•	C361SF264	200A	200A-250V	H, K, R	13.06	10.12	8.06	14.12	17.12
•	•	•	C361SF264	200A	200A-600V	H, K, R	13.06	10.12	8.06	14.12	17.12

[1]"M" dimension does not allow for auxiliary switches. Refer to Cutler Hammer instructions if additional space is required.
"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13

Cutler Hammer C371 Circuit Breakers (C-H Westinghouse Circuit Breakers)

Fits Enclosure Height			Cutler Hammer Mechanisms	Amp Rating	Frame Type	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13				L	M	P	P	P
•	•	•	C371E	150A	F Frame EHD,FDB,FD,HFD,FDC	6.00	5.62	11.62	17.62	20.62
•	•	•	C371E	150A	F Frame HMCP	6.00	5.62	11.62	17.62	20.62
•	•	•	C371F	250A	J Frame JDB,JD,HJD,JDC	8.94	8.12	11.44	17.44	20.50
•	•	•	C371F	250A	J Frame HMCP	10.94	8.12	11.44	17.44	20.50
•	•	•	C371F	400A	K Frame DK,KDB,KD,HKD	9.75	8.12	11.00	17.00	20.00
•	•	•	C371F	400A	K Frame HMCP	9.75	8.12	11.00	17.00	20.00
•	•	•	C371G	600A	L Frame LD,HLD,LDC	8.44	12.00	9.38	15.38	18.38
	•	•	C371G	600A	L Frame HMCP	8.44	12.00	9.38	15.38	18.38
	•	•	C371K	800A	M Frame MD,MDS	10.25	12.00	—	11.81	14.81
	[1]	•	C371K	1200A	M Frame ND,HND,NDC	10.25	12.00	—	11.81	14.81

[1] Wire bend space "P" does not allow cable sizes larger than 350 MCM in an 84.13" tall enclosure when 4 cables per terminal used. Refer to NATIONAL ELECTRIC Code 2005 table 312-6(b) for details.
Wire bend space "P" is compatible with C-H Westinghouse breakers with TA1201NB1 terminals.

"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13

Charts reference Space Occupied by Disconnect Drawing.

...Cutler Hammer continued on next page

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Cutler Hammer cont'd.

Cutler Hammer Flex-Shaft™ Operator Mechanisms (C-H Westinghouse Circuit Breakers)

Complete Operator Mechanisms	Amp Rating	Fram Type	Breaker Height "X" (in inches)	Breaker Width "Y" (in inches)
F1S03	150A	F Frame EHD,FDB,FD,HFD	6.00	4.12
F1S03	150A	F Frame HMCP	6.00	4.12
F2S03	250A	J Frame JDB,JD,HJD,JDC	10.00	4.12
F2S03	250A	J Frame HMCP	10.00	4.12
F3S03	400A	K Frame DK,KDB,KD,HKD	10.12	5.50
F3S03	400A	K Frame HMCP	12.45	5.50
F4S04	600A	L Frame LD,HLD,LDC	10.75	8.25
F4S04	600A	L Frame HMCP	12.50	8.25
F7S04	800A	M Frame MD,MDS	16.00	8.25
F5S04	1200A	N Frame ND,HND,NDC	16.00	8.25
F6S04	2500A	R Frame RD,CRD, RDC	16.00	15.50

Part numbers for Complete Operator Mechanisms include flange mounted handle, flexible shaft and circuit breaker mechanism.
The last digit of the part number denotes the shaft length (F1S03=3' length).

- F,J,K frame Flex-Shafts™ available in 3' to 10' lengths.
- L,N,R frame Flex-Shafts™ available in 4' to 6' lengths.

Space Occupied By Disconnect

1. Flex-Shaft™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref “P”) required for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 4" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric

General Electric Type STDA Disconnect Switch Operators

Fits Enclosure Height			General Electric Switch Mechanisms	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13					L	M	P	P	P
•	•	•	**TDOM1A**	30A	No Fuse	—	6.88	5.38	12.38	18.38	21.38
•	•	•	**TDOM1A**	30A	30A-250V	H, R	6.88	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	30A	30A-600V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	30A	60A-250V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	30A	60A-600V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1A**	60A	No Fuse	—	6.88	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	60A	60A-250V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	60A	60A-600V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	60A	100A-250V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	60A	100A-600V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1A**	100A	No Fuse	—	6.88	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	100A	100A-250V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	100A	100A-600V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	100A	200A-250V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM1B**	100A	200A-600V	H, R	11.50	5.38	12.38	18.38	21.38
•	•	•	**TDOM2**	200A	No Fuse	—	7.00	9.25	9.69	15.69	18.69
•	•	•	**TDOM2**	200A	200A-250V	H, R	15.38	9.25	9.69	15.69	18.69
•	•	•	**TDOM2**	200A	200A-600V	H, R	15.38	9.25	9.69	15.69	18.69

General Electric Type STDA Circuit Breaker Operators

Fits Enclosure Height			General Electric Circuit Breaker Mechanisms	Amp Rating	Frame Type	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13				L	M	P	P	P
•	•	•	**SDOM1A**	150A	TEB, TED, THED	6.88	5.38	11.24	17.24	20.24
•	•	•	**SDOM1A**	150A	TEC	6.88	5.38	11.24	17.24	20.24
•	•	•	**TDOM1B**	150A	TB1	11.50	5.38	11.24	17.24	20.24
•	•	•	**TDOM1B**	150A	TEC, TECL	11.50	5.38	11.24	17.24	20.24
•	•	•	**TDOM1C**	150A	TEL	6.88	5.38	11.24	17.24	20.24
•	•	•	**TDOM1D**	150A	THLC1	6.88	5.38	9.87	15.87	18.87
•	•	•	**TDOM3**	225A	TFJ	10.38	5.88	10.81	16.81	19.81
•	•	•	**TDOM3**	225A	TFK, THFK, TFL	10.38	5.88	10.81	16.81	19.81
•	•	•	**TDOM4**	400A	TJJ, TJK4, THJK4, TJL4V	8.25	9.50	9.91	15.91	18.91
•	•	•	**TDOM4**	600A	TJK6, THJK6, TJ4V, TJL4V	8.25	9.50	9.91	15.91	18.91
•	•	•	**TDOM5**	400A	TB4, TJH6S	14.25	9.50	9.91	15.91	18.91
	•	•	**TDOM6**	225A	TLB2, THLC2	11.75	9.50	—	15.35	18.35
	•	•	**TDOM6**	400A	TLB4, THLC4	11.75	9.50	—	13.97	16.97
		•	**TDOM6**	800/1200A	TKMA, THKMA, TK4V	11.75	9.50	—	—	18.38
		•	**TDOM6**	1200A	TK4BV, THK4V	11.75	9.50	—	—	18.38
	•	•	**TDOM7**	600A	TB6	18.12	9.50	—	12.25	15.25
	•	•	**TDOM7**	800A	TB8	18.12	9.50	—	12.25	15.25
		•	**TDOM7**	1200A	TKL12S	18.12	9.50	—	—	15.25
•	•	•	**SD0M1A**	150A	SE150	6.88	5.38	11.24	17.24	20.24
•	•	•	**SD0M3**	250A	SPECTRA SF250	10.38	5.88	10.81	16.81	19.81
	•	•	**SD0M4**	600A	SPECTRA SG600	10.00	7.12	—	13.18	16.18

"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13

Charts reference Space Occupied by Disconnect Drawing.

...General Electric continued on next page

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

General Electric cont'd.

General Electric Circuit Breakers (Spectra-Flex™ Cable Operators)

Fits Enclosure Height 72.13	84.13	90.13	Max Frame Size	Amp Rating	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
•	•	•	E150	150A	6.31	4.12
•	•	•	SE150	150A	6.31	4.12
•	•	•	SF250	250A	10.12	4.12
•	•	•	SG600	600A	10.09	5.50
•	•	•	SK1200	1200A	15.50	8.25

Note: All UHD & UHDM SERIES enclosures that are 24.13" deep require a 48" or longer operating cable

Frame Size	Breaker Mechanism	Flange Mounting Handle[1]	Operating Cable[2]
E150	SCOM1A	SCH1	SC3L
SE150/SF250	SCOM1EF	SCH1	SC3L
SG600	SCOM1G	SCH1	SC3L
SK1200	SCOM1K	SCH2k	SC3H

[1] Operating Cables are available 3' to 10' lengths.
[2] In the table above, the number "3" in the part number indicates a 3' cable.

Space Occupied By Disconnect

1. GE Spectra-Flex™ Operating Cables permit circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") required for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 3" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13

Charts reference Space Occupied by Disconnect Drawing.

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Siemens I-T-E

Siemens I-T-E Disconnect Switches (Max-Flex™ Operators)

Fits Enclosure Height 72.13	84.13	90.13	ITE Switch Type	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
•	•	•	**MCS603R**	30A	No Fuse	—	5.52	6.13
•	•	•	**MCS603R**	30A	30A-250V	H,K,R	8.11	6.13
•	•	•	**MCS603R**	30A	30A-600V	H,K,R	10.11	6.13
•	•	•	**MCS603R**	30A	30A-600V	J	8.48	6.13
•	•	•	**MCS606R**	60A	No Fuse	—	5.52	6.13
•	•	•	**MCS606R**	60A	60A-250V	H,K,R	7.86	6.13
•	•	•	**MCS606R**	60A	60A-600V	H,K,R	10.38	6.13
•	•	•	**MCS606R**	60A	60A-600V	J	8.36	6.13
•	•	•	**MCS610R**	100A	No Fuse	—	7.59	7.38
•	•	•	**MCS610R**	100A	100A-250V	H,K,R	11.85	7.38
•	•	•	**MCS610R**	100A	100A-600V	H,K,R	13.85	7.38
•	•	•	**MCS610R**	100A	100A-600V	J	10.60	7.38
•	•	•	**MCS620R**	200A	No Fuse	—	9.00	9.17
•	•	•	**MCS620R**	200A	200A-250V	H,K,R	14.70	9.17
•	•	•	**MCS620R**	200A	200A-600V	H,K,R	17.20	9.17
•	•	•	**MCS620R**	200A	200A-600V	J	13.32	9.17

Note: Enclosures that are 24.13" deep require a 48" Max-Flex™ cable (minimum cable length).

Siemens I-T-E Max-Flex™ Operators (Circuit Breakers)

Complete Operator Mechansim	Amp Rating	Breaker Frame Size	Circuit Breaker Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
FHOE036	125A	ED	ED2, ED4, ED6, HED4, HED6	6.34	3.00
FHOE036	125A	CED	CED6	9.58	3.00
FHOF036	250A	FD	FXD6-A, FD6-A, HFD6, FXD6-ETJ, HHFD6, HHFXD6	9.50	4.50
FHOF036	250A	CFD	CFD6, CFD6-ETI	14.25	4.50
FHOJ036	400A, 600A	JD, LD	JXD2, LXD6, JD6, LD6, HJD6, HLD6, HHJD6, HHLD6, HHJXD6, HHLDX6, JXD6-ETI, LXD6-ETI	11.00	7.50
FHOJ036	400A, 600A	CJD,CLD	CJD6, CLD6, CJD6-ETI, CLD6-ETI	17.86	7.50
FHOLMO36	800A	LMD	LMD6, LMXD6, HLMD6, HLMXD6, LMXD6-ETI	16.00	9.00
FHON048	800A, 1200A	MD, ND	MD6, ND6, MXD6, NXD6,HMD6, HND6, HMXD6, HNXD6, CMD6, CND6, MXD6-ETI, CMD6-ETI	24.00	9.00
FHONO48	1600A, 2000A	PD,RD	PD6, RD6, PXD6, RXD6, HPD6, HRD6, HPXD6, HRXD6, CPD6	24.50[2]	13.63[2]

Circuit Breaker Size includes required base mounting block.
Last three digits of operator mechanism part number denote cable length in inches.
24" deep enclosures require longer operating cables. Sold separately.

"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13
(Deduct 1.45 inches from "K" for FHONO48 Operator mechanism for MD,ND,PD,RD Circuit Breakers)

Space Occupied By Disconnect

1. I-T-E Max-Flex™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") required for line side conductors.
3. See Siemens I-T-E instructions for disconnect location limitations when using 36" or 48" Max-Flex™ cables.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)
   - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

Technical references and DXF downloads available at www.hammfg.com

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Variable Depth Disconnect Switches

Fits Enclosure Height			Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13					L	M	P	P	P
•	•	•	TCN-30	30A	No Fuse	—	3.80	6.97	10.75	16.75	19.75
•	•	•	TCF-30	30A	30A-250V	H, K, R	5.53	6.97	10.75	16.75	19.75
•	•	•	TCF-33	30A	30A-600V	H, K, R	8.15	6.97	10.75	16.75	19.75
•	•	•	TCF-33	30A	60A-250V	H, K, R	6.15	6.97	10.75	16.75	19.75
•	•	•	TCF-33	30A	30A-600V	J	5.53	6.97	10.75	16.75	19.75
•	•	•	TDN-60	60A	No Fuse	—	3.80	6.97	10.75	16.75	19.75
•	•	•	TDF-60	60A	30A-600V	H, K, R	8.15	6.97	10.75	16.75	19.75
•	•	•	TDF-60	60A	60A-250V	H, K, R	6.15	6.97	10.75	16.75	19.75
•	•	•	TDF-63	60A	60A-600V	H, K, R	8.65	6.97	10.75	16.75	19.75
•	•	•	TDF-63	60A	60A-600V	J	5.53	6.97	10.75	16.75	19.75
•	•	•	TEN-10	100A	No Fuse	—	3.80	6.97	10.62	16.62	19.62
•	•	•	TEF-10	100A	100A-250V	H, K, R	8.25	6.97	10.62	16.62	19.62
•	•	•	TEF-10	100A	100A-600V	H, K, R	10.25	6.97	10.62	16.62	19.62
•	•	•	TEF-10	100A	100A-600V	J	7.05	6.97	10.62	16.62	19.62
•	•	•	TEF-13	100A	200A-600V	J	—	—	10.62	16.62	19.62
•	•	•	TC-1	30A	No Fuse	—	5.75	6.12	9.88	15.88	18.88
•	•	•	TC-2	30A	30A-250V	H, K, R	5.75	6.12	9.88	15.88	18.88
•	•	•	TC-3	30A	30A-600V	H, K, R	7.75	6.12	9.88	15.88	18.88
•	•	•	TC-3	30A	60A-250V	H, K, R	5.88	6.12	9.88	15.88	18.88
•	•	•	TC-3	30A	30A-600V	J	5.75	6.12	9.88	15.88	18.88
•	•	•	TD-1	60A	No Fuse	—	6.38	6.75	10.75	16.75	19.75
•	•	•	TD-2	60A	30A-600V	H, K, R	8.50	6.75	10.75	16.75	19.75
•	•	•	TD-2	60A	60A-250V	H, K, R	6.50	6.75	10.75	16.75	19.75
•	•	•	TD-3	60A	60A-600V	H, K, R	9.00	6.75	10.75	16.75	19.75
•	•	•	TD-3	60A	60A-600V	J	6.38	6.75	10.75	16.75	19.75
•	•	•	TE-1	100A	No Fuse	—	4.75	8.50	10.50	16.50	19.50
•	•	•	TE-2	100A	100A-250V	H, K, R	7.50	8.50	10.50	16.50	19.50
•	•	•	TE-2	100A	100A-600V	H, K, R	9.50	8.50	10.50	16.50	19.50
•	•	•	TE-2	100A	100A-600V	J	6.25	8.50	10.50	16.50	19.50
•	•	•	TE-3	100A	200A-600V	J	13.75	8.50	10.50	16.50	19.50
•	•	•	TF-1	200A	No Fuse	—	5.50	11.75	9.12	15.12	18.12
•	•	•	TF-2	200A	200A-250V	H, K, R	11.50	11.75	9.12	15.12	18.12
•	•	•	TF-2	200A	200A-600V	H, K, R	14.00	11.75	9.12	15.12	18.12
•	•	•	TF-2	200A	200A-600V	J	10.12	11.75	9.12	15.12	18.12
•	•	•	TF-3	200A	400A-600V	J	14.50	11.75	9.12	15.12	18.12

Square D Class 9422 Variable Depth Operators (Circuit Breakers)

Fits Enclosure Height			Square D Type Number	Amp Rating	Frame Type	Space Occupied		When A=72.13	When A=84.13	When A=90.13
72.13	84.13	90.13				L	M	P	P	P
•	•	•	RG-1	75A	GJL	3.53	3.87	10.69	16.69	19.69
•	•	•	RG-1	100A	GJL	3.53	3.87	10.69	16.69	19.69
•	•	•	RN-1	100A	FAL, FHL	5.12	5.38	10.88	16.88	19.88
•	•	•	RP-1	250A	KAL, KHL	7.12	5.75	11.56	17.56	20.56
	•	•	RR-1	400A	LAL, LHL, Q4L	7.62	8.88	—	13.25	16.25
	•	•	RT-1	800A	MEL, MXL	9.12	12.00	—	13.12	16.12
	•	•	RT-1	1000A	MAL, MHL	9.12	12.00	—	13.12	16.12

"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13

Charts reference Space Occupied by Disconnect Drawing.

Technical references and DXF downloads available at www.hammfg.com

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UHD Heavy Duty Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Square D

Square D Class 9422 Disconnect Switches (Cable Mechanism 9422-CFT30 and 9422A-1 Handle Mechanism)

Fits Enclosure Height 72.13	84.13	90.13	Square D Type Number	Amp Rating	Fuse Clip	Fuse Class	Disconnect Height "X"	Disconnect Width "Y"
•	•	•	TCN-30	30A	No Fuse	—	5.90	6.20
•	•	•	TCF-30	30A	30A-250V	H, K, R	7.50	6.20
•	•	•	TCF-33	30A	30A-600V	H, K, R	10.15	6.20
•	•	•	TCF-33	30A	60A-250V	H, K, R	8.15	6.20
•	•	•	TCF-33	30A	30A-600V	J	7.50	6.20
•	•	•	TDN-60	60A	No Fuse	—	5.90	6.20
•	•	•	TDF-60	60A	30A-600V	H, K, R	10.15	6.20
•	•	•	TDF-60	60A	60A-250V	H, K, R	8.15	6.20
•	•	•	TDF-63	60A	60A-600V	H, K, R	10.65	6.20
•	•	•	TDF-63	60A	60A-600V	J	7.50	6.20
•	•	•	TEN-10	100A	No Fuse	—	5.90	6.20
•	•	•	TEF-10	100A	100A-250V	H, K, R	10.35	6.20
•	•	•	TEF-10	100A	100A-600V	H, K, R	10.35	6.20
•	•	•	TEF-10	100A	100A-600V	J	10.35	6.20

Use switch with appropriate cable mechanism and 9422A-1 handle mechanism

Square D Class 9422 Cable Mechanism (Circuit Breakers)

Fits Enclosure Height 72.13	84.13	90.13	Cable Type Switch	Amp Rating	Fram Type	Circuit Breaker Height "X"	Circuit Breaker Width "Y"
•	•	•	9422 CGJ30	75A	GJL	4.75	3.50
•	•	•	9422 CEJ30	100A	GJL	4.75	3.50
•	•	•	9422 CFA30	100A	FAL, FHL	6.00	4.50
•	•	•	9422 CKA30	250A	KAL, KHL	8.00	4.50
•	•	•	9422 CLA30	400A	LAL, LHL,Q4L	11.00	6.00

Use cable mechanism with circuit breaker and 9422-A1 handle mechanism
Cable operators are offered in 3', 5', and 10' lengths. Last 2 digits of part numbers above (30) are for 3' cables

Space Occupied By Disconnect Switch

1. Square D Cable System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") required for line side conductors.
3. Select cable mechanism length based on disconnect location in enclosure. See Square D instructions for minimum cable bend radius.
4. Space occupied by circuit breaker is calculated by:
   - Overall (Height "X" and Width "Y")
   - Minimum wire bend space (manufacturer specified)

"K" = 11.88 when "A" = 72.13
"K" = 17.88 when "A" = 84.13
"K" = 20.88 when "A" = 90.13

Charts reference Space Occupied by Disconnect Drawing.

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UHDM Modular Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



Inner Panel Included

Application

Designed to bolt together in any number of units for maximum flexibility and ease of transportation. The UHDM system consists of a Master enclosure to house the flange mounted disconnect switch and interlocking Slave enclosures which may be added or removed as required. Master enclosure units will accept the following disconnect switches and circuit breakers:

- **ABB Controls** flange mounted variable depth operating mechanism for disconnect switches and circuit breakers.
- **Allen Bradley** 1494F flange mounted disconnect switches and 1494D flange mounted operators for circuit breakers. Allen Bradley 1494V variable depth flange operated disconnect switches and circuit breaker mechanisms.
- **C-H Westinghouse** Type C361 disconnect switches and operator mechanism. Cutler Hammer Type C371 circuit breaker operating mechanisms. Flex Shaft™ handle operators for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra-Flex™ cable operators for circuit breakers.
- **I-T-E Max-Flex™** flange mounted variable depth operating handles for disconnect switches and circuit breakers.
- **Square D** disconnect switches and circuit breakers used with Class 9422 flange mounted variable depth operating mechanisms or cable mechanisms. These enclosures will not receive Class 9422 bracket mounted disconnect devices or Class 9422TG1 or TG2 devices.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - JIC EGP-1-1967 and EMP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed from 10 gauge steel with smooth continuously welded seams.
- Body stiffeners are provided in the larger enclosures for extra rigidity.
- Heavy duty lifting eyes are anchored into reinforced top corners.
- Removable doors are secured with heavy duty lift off hinges.
- Flange trough collar (FTC) around door excludes liquids and contaminants.
- Formed 10 gauge steel inner panels are provided on collar studs.
- Panel supports are provided.
- Center post is removable, providing easy panel installation.
- Heavy duty three point latching door mechanism.
- Side openings are reinforced to provide structural strength, smooth edges and preset gasket compression.
- Oil resistant gaskets on doors and side openings are permanently secured. No gasket kit is provided.
- Master door handle complete with screw defeater and padlock hasp.
- Slave door handle complete with padlock hasp.
- A mechanical interlock activated by the master door prevents the auxiliary door from being opened first.
- The universal flange cutout provides mounting for disconnect operators by use of the appropriate operator adaptor kit.
- A bonding stud is provided in the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided.

Note:

- Disconnect switches, circuit breakers and operators are not provided with the enclosure, and must be ordered separately from the manufacturer.

Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Interior - white powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see factory*
- Air conditioners...*see page* ***388-405***
- Blank adaptor plates...*see page* ***188***
- Blowers...*see page* ***406***
- Breather kits...*see page* ***423***
- Doorstop kits...*see page* ***447***
- Enclosure stabilizers...*see page* ***451***
- Filter fans...*see page* ***408-414***
- Floor stand kits...*see page* ***448***
- Heaters...*see page* ***418-420***
- Light kits...*see page* ***245***
- Operator adaptor kits...*see page* ***206***
- Thermostats...*see page* ***421***
- Window kits...*see page* ***444***

Technical references and DXF downloads available at www.hammfg.com

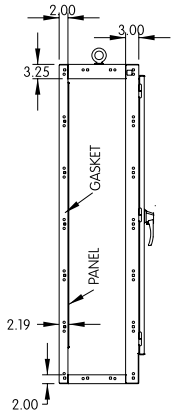
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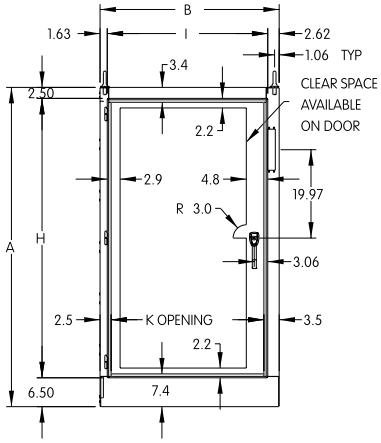
UHDM Modular Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

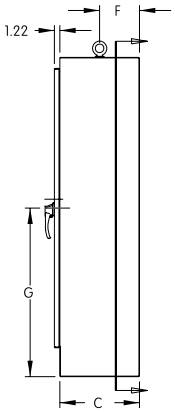
Single Door Master Enclosure (Left side open)



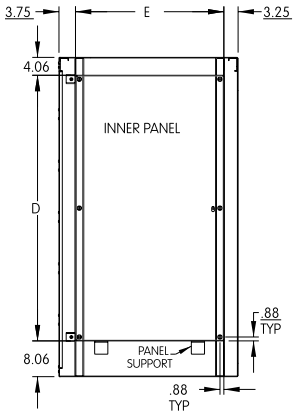
Open End



Front View

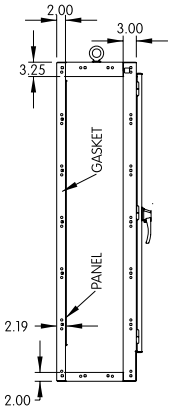


Closed End

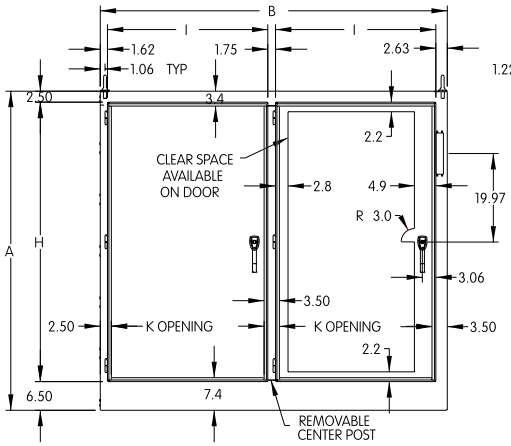


Rear View (Cross Section)

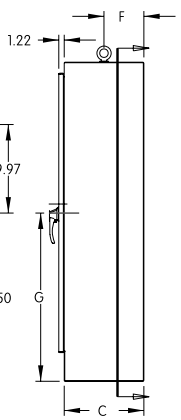
Two Door Master Enclosure (Left side open)



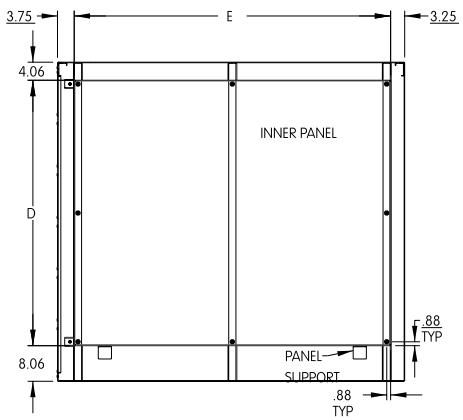
Open End



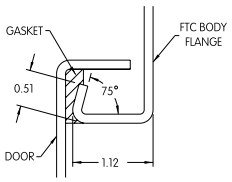
Front View



Closed End



Rear View (Cross Section)



Master Enclosures

Part No.	Overall Dimensions A	B	C	D	E	F	G	H	I	K	Ship Wt. lbs.	Description
UHDM724118MFTC	72.13	40.75	18.13	60	33.75	9.06	38.06	63.13	36.5	34.75	506	Single Door Disconnect
UHDM844118MFTC	84.13	40.75	18.13	72	33.75	9.06	44.06	75.13	36.5	34.75	573	Left side open
UHDM844124MFTC	84.13	40.75	24.13	72	33.75	12.06	44.06	75.13	36.5	34.75	658	
UHDM727918MFTC	72.13	79.00	18.13	60	72.00	9.06	38.06	63.13	36.5	34.75	918	Two Door Disconnect
UHDM847918MFTC	84.13	79.00	18.13	72	72.00	9.06	44.06	75.13	36.5	34.75	1050	Left side open
UHDM847924MFTC	84.13	79.00	24.13	72	72.00	12.06	44.06	75.13	36.5	34.75	1150	

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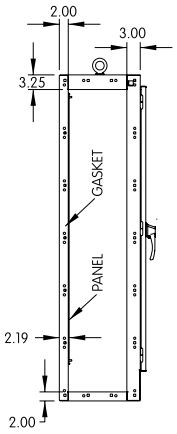
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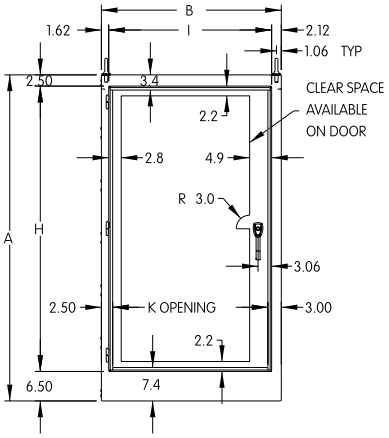
UHDM Modular Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

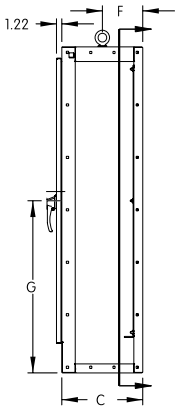
Single Door Slave Enclosure (Both sides open)



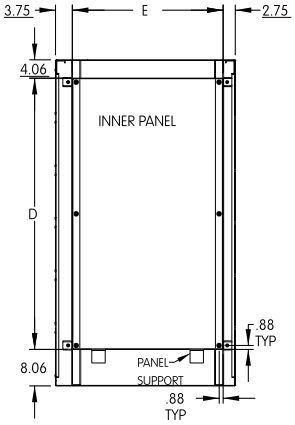
Open End



Front View

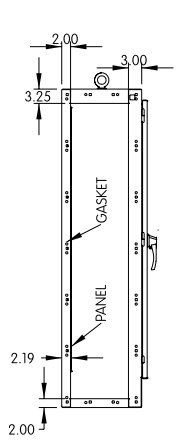


Closed End

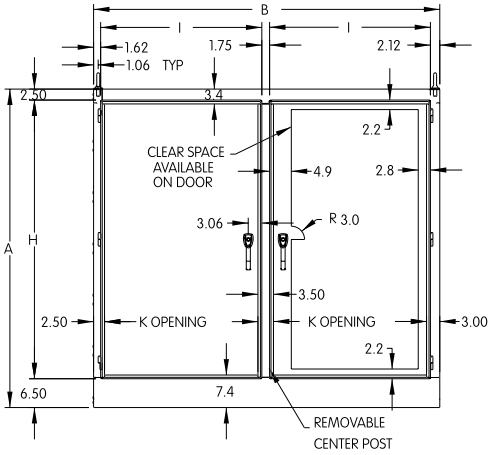


Rear View (Cross Section)

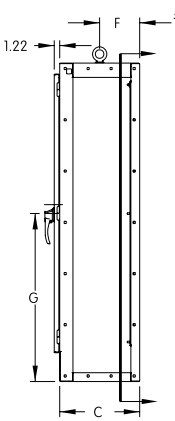
Two Door Slave Enclosure (Both sides open)



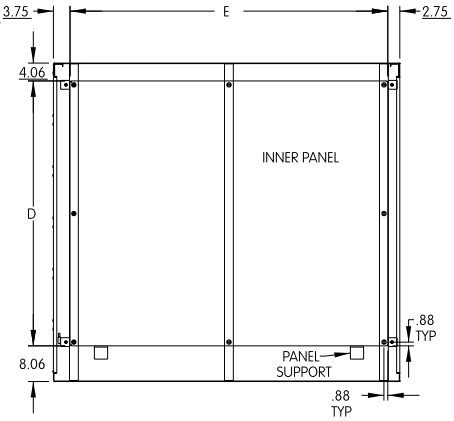
Open End



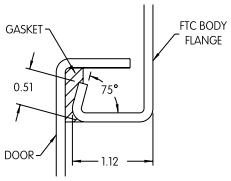
Front View



Closed End



Rear View (Cross Section)



Slave Enclosures

Part No.	Overall Dimensions A	B	C	D	E	F	G	H	I	K	Ship Wt. lbs.	Description
UHDM724118SFTC	72.13	40.25	18.13	60	33.75	9.06	38.06	63.13	36.5	34.75	473	Single Door Slave
UHDM844118SFTC	84.13	40.25	18.13	72	33.75	9.06	44.06	75.13	36.5	34.75	550	Both sides open
UHDM844124SFTC	84.13	40.25	24.13	72	33.75	12.06	44.06	75.13	36.5	34.75	570	
UHDM727818SFTC	72.13	78.50	18.13	60	72.00	9.06	38.06	63.13	36.5	34.75	888	Two Door Slave
UHDM847818SFTC	84.13	78.50	18.13	72	72.00	9.06	44.06	75.13	36.5	34.75	1010	Both sides open
UHDM847824SFTC	84.13	78.50	24.13	72	72.00	12.06	44.06	75.13	36.5	34.75	1060	

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UHDM Modular Disconnect Enclosures - NEMA 12

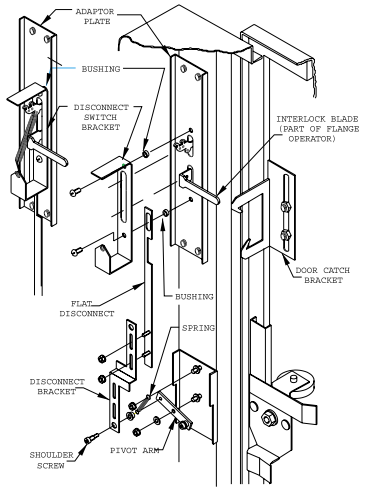
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Operator Adaptor Kits

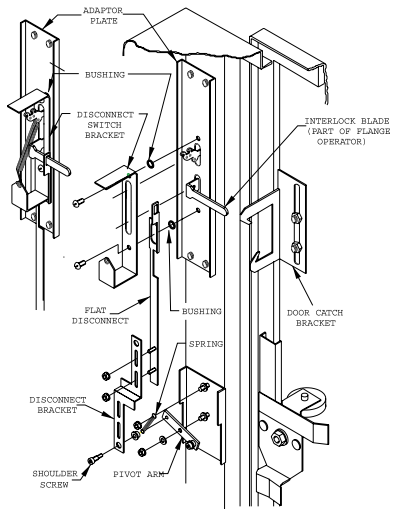
- All Universal series enclosures require one adaptor kit (ordered separately) to adapt the type of disconnect and mechanism to be used.
- Each brand and type requires a different adaptor kit.
- Each kit contains an adaptor plate and master door interlocking mechanism.
- Fully detailed, illustrated instructions included.

Note: *See pages* ***207-217*** for a list of disconnect switches and circuit breakers to fit 72.12" and 84.12" enclosures.

Version Shown
Allen Bradley - 1494V H1



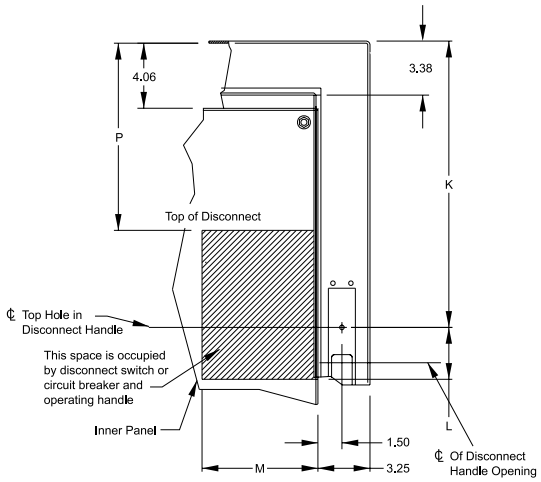
Version Shown
Allen Bradley - 1494V H2



Part No.	Operator Make & Type	
AKU	**ABB Controls** operating handle	
	Disconnect Switch	DSFHN-HS12
	Circuit Breaker	K7FHD-HS12
	Allen Bradley 1494V variable depth operating handle	
	Disconnect Switch	
	30-200	1494V H1
	400	1494V H2
	Circuit breaker	1494V H11
	Cutler Hammer operating handle	C361H1 or H3
	Disconnect Switch	C371H1 or H3
	Circuit Breaker	C371H5 or H7
	150 amps	
	250 to 1200 amps	
	Circuit Breaker C371 Flex-Shaft™ handle mechanism.	
	General Electric operating handle	
	Disconnect Switch	STDA1or STDA2
	Circuit Breaker	STDA1or STDA2
	Circuit Breaker Spectra-Flex™ cable operators	
	150 to 600 amps	STDA1
	sk1200	STDA3
	Siemens I-T-E Max-Flex™ operating handle	
	Disconnect Switch, Variable depth	FHOHS
	Circuit Breaker	
	125 to 600	FHOH
	800 to 2000	FHOHN
	Square D class 9422 operating mechanism	
	Disconnect Switch variable depth	9422 type A1
	Circuit Breaker variable depth	9422 type A1
	Disconnect Switch with cable mechanism	9422 type A1
	Circuit Breaker with cable mechanism	9422 type A1
AK1494FD	Allen Bradley	1494F and D
BPAK	Blank Adapter Plate	

Space Occupied by Disconnects

Note: Disconnects will occupy space on panel shown by dimensions "K", "L", and M". Wiring space "P" is available when disconnect is installed in the enclosure. ***The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing not responsible for dimensional accuracy.**



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UHDM Modular Disconnect Enclosures - NEMA 12

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect Ordering Information

ABB Controls

Disconnect switch:
- Flange operated switch (fusible or non-fusible)
- Shaft:
  - 18.13" deep enclosures use DSFHS-17
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Handle: DSFHN-HS12

Circuit breaker:
- Circuit breaker: ABB
- Operating mechanism
- Shaft:
  - 18.13" deep enclosures use K7FHD-S17
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Handle mechanism: K7FHD-HS12

Allen Bradley

Bulletin 1494F flange mounted disconnect switch:
- Disconnect switch
- Fuse block adaptor (if required)
- Line and load connectors (if required)

1494D flange mounted circuit breaker operating mechanism:
- Circuit breaker: C-H Westinghouse
- Flange mounted operating mechanism
- Slide mechanism

Bulletin 1494V flange mounted disconnect switch:
- Disconnect switch
- Operating handle
- Connecting rod/rods (long)
- Trailer fuse block kit (if required)
- Fuse clip kit (if required)
- Line and load connectors (if required)

Bulletin 1494V flange mounted circuit breaker operating mechanism:
- Circuit breaker: C-H Westinghouse
- Operating mechanism
- Operating handle
- Connecting rod (long)

C-H Westinghouse

Type C361 disconnect switch:
- Disconnect switch with an operating mechanism
- Operating handle: C361H1 or C361H3
- In 24.13" deep enclosures, platform must be used with shaft (not included)

Type C371 circuit breaker operating mechanism with a C-H Westinghouse circuit breaker:
- Circuit breaker
- Operating mechanism
- Long operating rod (if required)
- Operating handle:
  - 150 amp - C371H1 or C371H3
  - 250 through 1200 amp - C371H5 or C371H7

Flex-Shaft™ handle mechanism:
- Circuit breaker
- Complete Flex-Shaft™ handle mechanism

General Electric

Disconnect switch:
- Disconnect switch: Type QMR or QMW
- Fuse clip kit or no-fuse kit
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)

Circuit breaker:
- Circuit breaker
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)

Circuit breaker with a Spectra-Flex™ cable operator:
- Circuit breaker
- Flange mounted handle mechanism:
  - 150 to 600 amps - STDA1
  - SK1200 - STDA3
- Breaker mounted mechanism
- Operating cable

I-T-E Siemens

Disconnect switch:
- Basic switch (right-hand)
- Fuse or no-fuse kit
- Flange mounted handle: FHOHS
- Switch operator
- Operating cable: FHOEC048

Circuit breaker:
- Circuit breaker
- Pressure wire connectors
- Flange mounted handle:
  - 100 to 600 - FHOH
  - 800 to 2000 - FHOHN
- Circuit breaker operator mechanism
- Operating cable:
  - 18.13" deep enclosures accept 36" or 48" cables;
  - 24.13" deep enclosures require a 48" cable
- These items are available from Siemens I-T-E as a complete mechanism with a 36" operating cable only Order items separately when using a 48" cable

Square D

Disconnect switch:
- Disconnect switch with operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

Circuit breaker:
- Circuit breaker
- Operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

Class 9422 Type T disconnect switch with a cable mechanism:
- Disconnect switch with operating mechanism: Class 9422, Type T
- Handle mechanism: Class 9422, Type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot

Circuit breaker with a cable mechanism:
- Circuit breaker: Square D
- Handle mechanism: Class 9422, type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot

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UHDM Modular Disconnect Enclosures - NEMA 12

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Formed End Plates and Flat End Plates

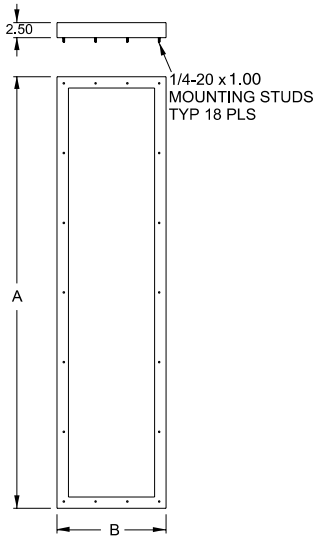
- Formed from 12 gauge steel.
- Used to enclose the open end(s) of one or more modular enclosures.
- Two types are available. No separate gasket kit is required.



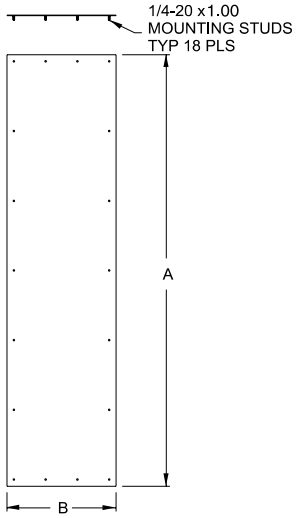
Flat Barrier Plate

- Formed from 14 gauge steel.
- May be used to provide a barrier between modular enclosures. They are supplied complete with gasket.

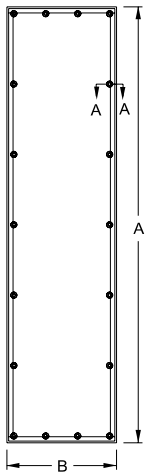


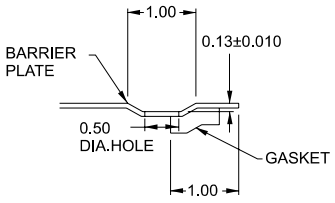


Formed End Plate



Flat End Plate



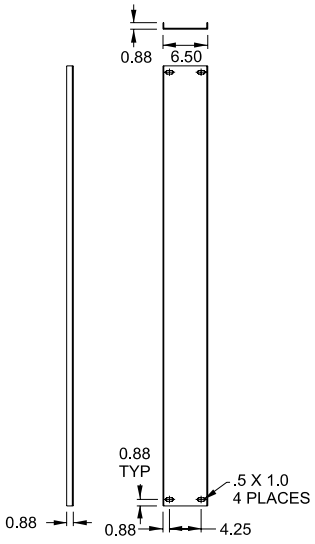


Section A-A

Panel Bridge Kit

- Formed from 10 gauge steel.
- May be used to join back panels together between modular enclosures to provide a continuous panel surface.





Accessories for Heavy Duty Modular NEMA 12 Enclosures for Flange Mounted Disconnects

Part No.	A	B	C	Description
UHDM7218ECA	71.86	17.87	—	Formed End Plate with
UHDM8418ECA	83.87	17.87	—	Mounting Hardware
UHDM8424ECA	83.87	23.87	—	
UHDM7218EPA	71.87	17.87	—	Flat End Plate with
UHDM8418EPA	83.87	17.87	—	Mounting Hardware
UHDM8424EPA	83.87	23.87	—	
UHDM7218BPA	71.87	17.87	—	Flat Barrier Plate with
UHDM8418BPA	83.87	17.87	—	Mounting Hardware
UHDM8424BPA	83.87	23.87	—	
UHDMFTC72BK	—	—	60	Inner Panel Bridge Kit
UHDMFTC84BK	—	—	72	

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Modular Freestanding Enclosures


Modular Freestanding Enclosures - IME Series Single Door Enclosure NEMA 12 226


Modular Freestanding Enclosures - IMET Series Double Door Enclosure NEMA 12 230


Modular Freestanding Enclosures - IFMD Series Flange Mount Disconnect Enclosure NEMA 12 234


Modular Freestanding Enclosures - IPC Series PC Enclosure NEMA 12 236

Modular Freestanding Enclosures - Accessories 238

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Modular Freestanding Enclosures - NEMA 12

IME Series Single Door Enclosure



Side Panels Sold Separately

Inner Panel Included

Application

- The IME product line provides users with a rugged housing for industrial control and operator interface in harsh industrial environments.
- Modular design permits joining of units together for large scale and mixed use applications.
- A broad range of industry standard sizes are offered. Units are constructed to imperial dimensions and hardware sizes, with metric sizing provided for convenient reference.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529 IP54

Standard Configuration

- Frame with integral solid top
- Lifting eyebolts
- Removable bottom panel
- Solid front door with key locking handle
- Removable rear cover panel
- Inner mounting panel, additional panels available

Construction

- Formed 14 gauge steel.
- Frame has welded corner reinforcements.
- Mounting channels on sides of enclosure are oriented front to back for depth adjustment of mounting panels.
- Oil resistant gaskets are permanently secured on all openings.
- Reinforced eyebolts are provided for easy enclosure lifting.
- Frames are easily joined together with an optional joining kit.
- Doors can be easily removed and interchanged.
- Optional formed 16 gauge steel side panels are recessed to fit flush with the sides of the cabinet. **Side panels must be ordered separately.**
- Bonding and grounding studs are provided for all doors and panels.

Finish

- Phosphatized and finished in RAL 7032 beige powder coating.
- Inner panels are finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***239***
- Air conditioners...*see page* ***388-405***
- Bridge panel...*see page* ***238***
- Caster assembly-inside mounting...*see page* ***246***
- Caster assembly-outside mounting...*see page* ***246***
- Center depth support...*see page* ***243***
- Door mount rails...*see page* ***238***
- Door shelf...*see page* ***243***
- Door support wheel...*see page* ***245***
- Filter fans...*see page* ***408-414***
- Fold down shelf...*see page* ***243***
- Joining kit...*see page* ***240***
- Leveling feet...*see page* ***244***
- Light kit and accessories ...*see page* ***245***
- Literature pocket...*see page* ***244***
- Master interlock kit...*see page* ***244***
- Mounting rails...*see page* ***246***
- Plinth...*see page* ***243***
- Power bars...*see page* ***438-441***
- Side mount inner panels ...*see page* ***239***
- Side panels...*see page* ***238***
- Slave interlock joining kit ...*see page* ***244***
- Slave interlock kit...*see page* ***244***
- Solid door...*see page* ***241***
- Tamper resistant screws ...*see page* ***245***
- Vented raised top...*see page* ***240***
- Window door...*see page* ***241***
- Top mount fan...*see page* ***415***

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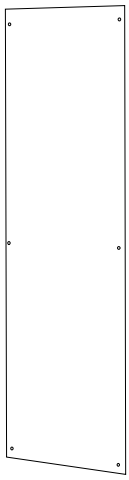
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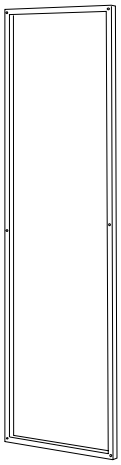
Modular Freestanding Enclosures - NEMA 12

IME Series Single Door Enclosure

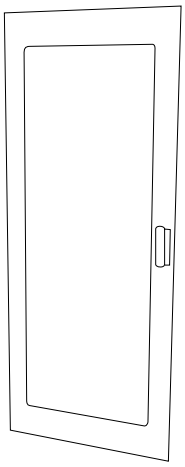
External Accessories



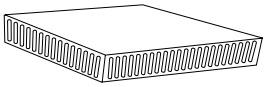
Side Panels
...see page 238



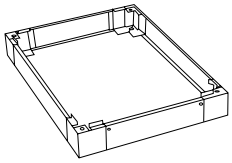
Joining Kit
...see page 240



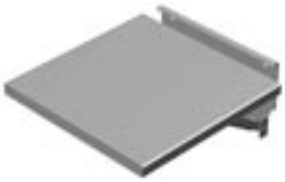
Solid and Window Doors
...see page 241



Vented Raised Top
...see page 240

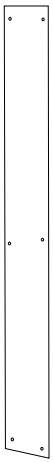


Plinth
...see page 243



Fold Down Shelf
...see page 243

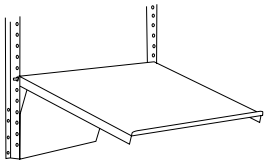
Internal Accessories



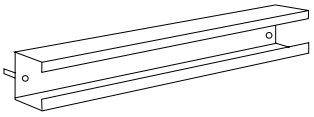
Bridge Panel
...see page 238



Additional Inner Panels
...see page 239



Door Shelf
...see page 243



Center Depth Support
...see page 243

For Additional Accessories...see page 238-247

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Modular Freestanding Enclosures - NEMA 12

Part No.	Nominal Dimensions A x B x C (mm)		Overall Dimensions A	B	C	D	E	F	Mtg. Panel Height	Dimensions Width	Ship Wt. lbs
IME1666	1600 x 600 x 600	inch	70.31	23.00	23.63	59.81	13.00	10.5	61.75	17.75	235
		mm	*1786*	*584*	*600*	*1519*	*330*	*267*	*1568*	*451*	
IME1668	1600 x 600 x 800	inch	70.31	23.00	31.50	59.81	13.00	17.5	61.75	17.75	245
		mm	*1786*	*584*	*800*	*1519*	*330*	*445*	*1568*	*451*	
IME1676	1600 x 700 x 600	inch	70.31	28.00	23.63	59.81	17.00	10.5	61.75	22.75	260
		mm	*1786*	*711*	*600*	*1519*	*432*	*267*	*1568*	*578*	
IME1678	1600 x 700 x 800	inch	70.31	28.00	31.50	59.81	17.00	17.5	61.75	22.75	270
		mm	*1786*	*711*	*800*	*1519*	*432*	*445*	*1568*	*578*	
IME1686	1600 x 800 x 600	inch	70.31	31.50	23.63	59.81	17.00	10.5	61.75	26.25	285
		mm	*1786*	*800*	*600*	*1519*	*432*	*267*	*1568*	*667*	
IME1688	1600 x 800 x 800	inch	70.31	31.50	31.50	59.81	17.00	17.5	61.75	26.25	300
		mm	*1786*	*800*	*800*	*1519*	*432*	*445*	*1568*	*667*	
IME1864	1800 x 600 x 400	inch	77.31	23.00	15.75	66.81	13.00	10.5	68.75	17.75	225
		mm	*1964*	*584*	*400*	*1697*	*330*	*484*	*1746*	*451*	
IME1865	1800 x 600 x 500	inch	77.31	23.00	19.63	66.81	13.00	10.5	68.75	17.75	230
		mm	*1964*	*584*	*498*	*1697*	*330*	*267*	*1746*	*451*	
IME1866	1800 x 600 x 600	inch	77.31	23.00	23.63	66.81	13.00	10.5	68.75	17.75	250
		mm	*1964*	*584*	*600*	*1697*	*330*	*267*	*1746*	*451*	
IME1868	1800 x 600 x 800	inch	77.31	23.00	31.50	66.81	13.00	17.5	68.75	17.75	270
		mm	*1964*	*584*	*800*	*1697*	*330*	*445*	*1746*	*451*	
IME1876	1800 x 700 x 600	inch	77.31	28.00	23.63	66.81	17.00	10.5	68.75	22.75	275
		mm	*1964*	*711*	*600*	*1697*	*432*	*267*	*1746*	*578*	
IME1878	1800 x 700 x 800	inch	77.31	28.00	31.50	66.81	17.00	17.5	68.75	22.75	295
		mm	*1964*	*711*	*800*	*1697*	*432*	*445*	*1746*	*578*	
IME1884	1800 x 800 x 400	inch	77.31	31.50	15.75	66.81	17.00	10.5	68.75	26.25	275
		mm	*1964*	*800*	*400*	*1697*	*432*	*267*	*1746*	*667*	
IME1885	1800 x 800 x 500	inch	77.31	31.50	19.63	66.81	17.00	10.5	68.75	26.25	295
		mm	*1964*	*800*	*498*	*1697*	*432*	*267*	*1746*	*667*	
IME1886	1800 x 800 x 600	inch	77.31	31.50	23.63	66.81	17.00	10.5	68.75	26.25	300
		mm	*1964*	*800*	*600*	*1697*	*432*	*267*	*1746*	*667*	
IME1888	1800 x 800 x 800	inch	77.31	31.50	31.50	66.81	17.00	17.5	68.75	26.25	320
		mm	*1964*	*800*	*800*	*1697*	*432*	*445*	*1746*	*667*	
IME18105	1800 x 1000 x 500	inch	77.31	39.37	19.63	66.81	24.06	10.5	68.75	34.12	345
		mm	*1964*	*1000*	*498*	*1697*	*611*	*267*	*1746*	*867*	
IME18106	1800 x 1000 x 600	inch	77.31	39.37	23.63	66.81	24.06	10.5	68.75	34.12	350
		mm	*1964*	*1000*	*600*	*1697*	*611*	*267*	*1746*	*867*	
IME18108	1800 x 1000 x 800	inch	77.31	39.37	31.50	66.81	24.06	17.5	68.75	34.12	360
		mm	*1964*	*1000*	*800*	*1697*	*611*	*445*	*1746*	*867*	
IME2064	2000 x 600 x 400	inch	86.06	23.00	15.75	75.56	13.00	10.5	77.50	17.75	240
		mm	*2186*	*584*	*400*	*1919*	*330*	*267*	*1969*	*451*	
IME2065	2000 x 600 x 500	inch	86.06	23.00	19.63	75.56	13.00	10.5	77.50	17.75	250
		mm	*2186*	*584*	*498*	*1919*	*330*	*267*	*1969*	*451*	
IME2066	2000 x 600 x 600	inch	86.06	23.00	23.63	75.56	13.00	10.5	77.50	17.75	260
		mm	*2186*	*584*	*600*	*1919*	*330*	*267*	*1969*	*451*	
IME2068	2000 x 600 x 800	inch	86.06	23.00	31.50	75.56	13.00	17.5	77.50	17.75	285
		mm	*2186*	*584*	*800*	*1919*	*330*	*445*	*1969*	*451*	
IME2076	2000 x 700 x 600	inch	86.06	28.00	23.63	75.56	17.00	10.5	77.50	22.75	290
		mm	*2186*	*711*	*600*	*1919*	*432*	*267*	*1969*	*578*	
IME2078	2000 x 700 x 800	inch	86.06	28.00	31.50	75.56	17.00	17.5	77.50	22.75	305
		mm	*2186*	*711*	*800*	*1919*	*432*	*445*	*1969*	*578*	
IME2084	2000 x 800 x 400	inch	86.06	31.50	15.75	75.56	17.00	10.5	77.50	26.25	300
		mm	*2186*	*800*	*400*	*1919*	*432*	*267*	*1969*	*667*	
IME2085	2000 x 800 x 500	inch	86.06	31.50	19.63	75.56	17.00	10.5	77.50	26.25	310
		mm	*2186*	*800*	*498*	*1919*	*432*	*267*	*1969*	*667*	
IME2086	2000 x 800 x 600	inch	86.06	31.50	23.63	75.56	17.00	10.5	77.50	26.25	320
		mm	*2186*	*800*	*600*	*1919*	*432*	*267*	*1969*	*667*	
IME2088	2000 x 800 x 800	inch	86.06	31.50	31.50	75.56	17.00	17.5	77.50	26.25	340
		mm	*2186*	*800*	*800*	*1919*	*432*	*445*	*1969*	*667*	
IME20105	2000 x 1000 x 500	inch	86.06	39.37	19.63	75.56	24.06	10.5	77.50	34.12	375
		mm	*2186*	*1000*	*498*	*1919*	*611*	*267*	*1969*	*867*	
IME20106	2000 x 1000 x 600	inch	86.06	39.37	23.63	75.56	24.06	10.5	77.50	34.12	385
		mm	*2186*	*1000*	*600*	*1919*	*611*	*267*	*1969*	*867*	
IME20108	2000 x 1000 x 800	inch	86.06	39.37	31.50	75.56	24.06	17.5	77.50	34.12	390
		mm	*2186*	*1000*	*800*	*1919*	*611*	*445*	*1969*	*867*	

Inches are precise, metric for reference only.

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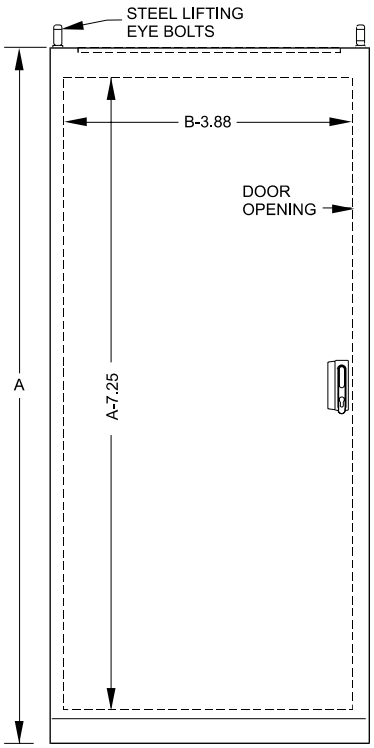
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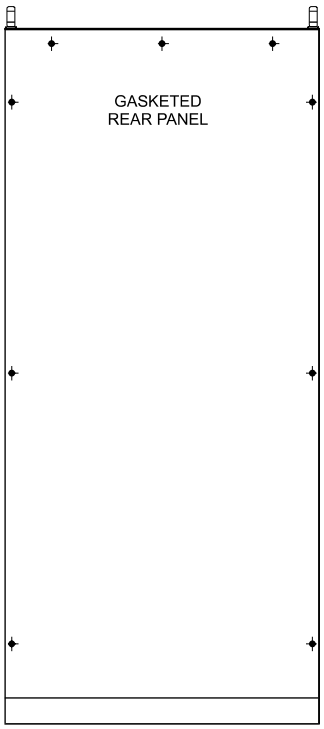
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Modular Freestanding Enclosures - NEMA 12

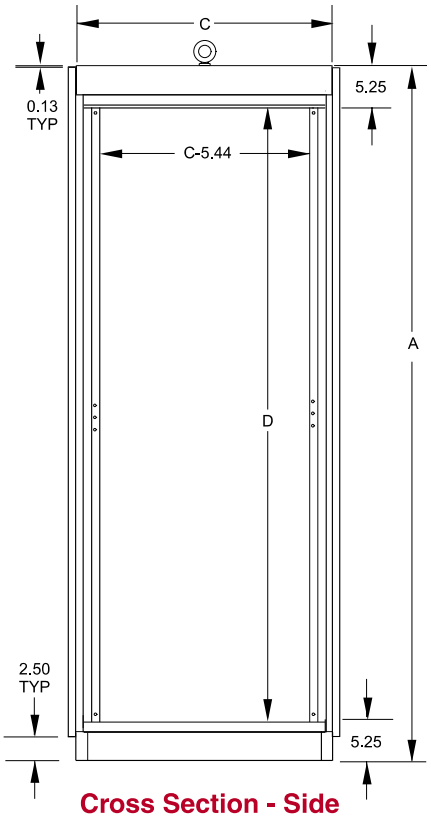
IME Series Single Door Enclosure



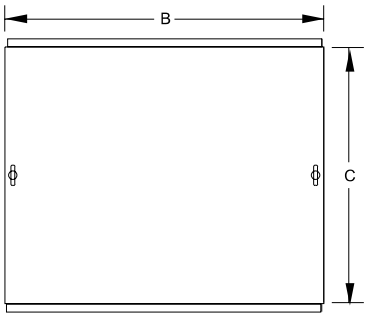
Front View



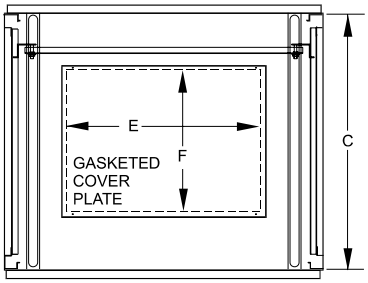
Rear View



Cross Section - Side



Top View - Door Installed



Cross Section - Bottom

Maximum Usable Depth

Panel in Full Back Position

Cabinet Depth (mm)	Without Bridge Panel (Inches)	With Bridge Panel (Inches)
400	14.63	13.88
500	18.50	17.75
600	22.50	21.75
800	30.38	29.63

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Modular Freestanding Enclosures - NEMA 12

IMET Series Double Door Enclosure



Side Panels Sold Separately

Inner Panel Included

Application

- The IMET product line provides users with a rugged housing for industrial control and operator interface in harsh industrial environments.
- Modular design permits joining of units together for large scale and mixed use applications.
- A broad range of industry standard sizes are offered. Units are constructed to imperial dimensions and hardware sizes, with metric sizing provided for convenient reference.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529 IP54

Standard Configuration

- Frame with integral solid top
- Lifting eyebolts
- 2 removable bottom panels
- 2 solid overlapping front doors with key locking handle
- Removable rear cover panels
- Inner mounting panel, additional panels available

Construction

- Formed 14 gauge steel.
- Frame has welded corner reinforcements.
- Mounting channels on sides of enclosure are oriented front to back for depth adjustment of mounting panels.
- Oil resistant gaskets are permanently secured on all openings.
- Reinforced eyebolts are provided for easy enclosure lifting.
- Frames are easily joined together with an optional joining kit.
- Doors can be easily removed and interchanged.
- Optional formed 16 gauge steel side panels are recessed to fit flush with the sides of the cabinet.**Side panels must be ordered separately.**
- Bonding and grounding studs are provided for all doors and panels.

Finish

- Phosphatized and finished in RAL 7032 beige powder coating.
- Inner panels finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***239***
- Air conditioners...*see page* ***388-405***
- Bridge panel...*see page* ***238***
- Caster assembly-inside mounting ...*see page* ***246***
- Caster assembly-outside mounting ...*see page* ***246***
- Center depth support...*see page* ***243***
- Door mount rails...*see page* ***238***
- Door shelf...*see page* ***243***
- Door support wheel...*see page* ***245***
- Filter fans...*see page* ***408-414***
- Fold down shelf...*see page* ***243***
- Joining kit...*see page* ***240***
- Leveling feet...*see page* ***244***
- Light kit and accessories ...*see page* ***245***
- Literature pocket...*see page* ***244***
- Power bars...*see page* ***438-441***
- Side mount inner panels ...*see page* ***239***
- Side panels...*see page* ***238***
- Tamper resistant screws ...*see page* ***245***
- Top mount fan...*see page* ***363***

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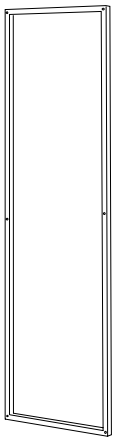
Modular Freestanding Enclosures - NEMA 12

IMET Series Double Door Enclosure

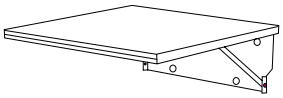
External Accessories



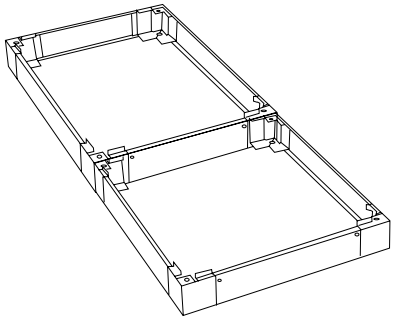
Side Panels
...see page 238



Joining Kit
...see page 240

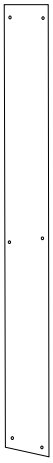


Fold Down Shelf
...see page 243

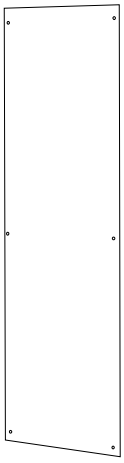


Plinths
...see page 243

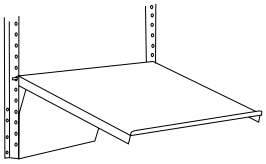
Internal Accessories



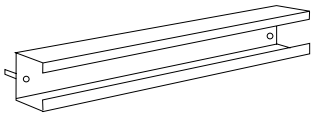
Bridge Panel
...see page 238



Additional Inner Panels
...see page 237



Door Shelf
...see page 243



Center Depth Support
...see page 243

For Additional Accessories...see page 238-247

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Modular Freestanding Enclosures - NEMA 12

IMET Series Double Door Enclosure

Part No.	Nominal Dimensions A x B x C(mm)		Overall Dimensions (in/mm) A	B	C	D	E	F	Panel Dimensions Height	Width	Ship Wt. lbs
IMET16126	1600 x 1200 x 600	inch	70.31	45.22	23.63	59.81	13	10.5	61.75	39.97	410
		mm	*1786*	*1149*	*600*	*1519*	*330*	*267*	*1568*	*1015*	
IMET16128	1600 x 1200 x 800	inch	70.31	45.22	31.50	59.81	13	17.5	61.75	39.97	425
		mm	*1786*	*1149*	*800*	*1519*	*330*	*445*	*1568*	*1015*	
IMET18124	1800 x 1200 x 400	inch	77.31	45.22	15.75	66.81	13	10.5	68.75	39.97	405
		mm	*1964*	*1149*	*400*	*1697*	*330*	*267*	*1746*	*1015*	
IMET18125	1800 x 1200 x 500	inch	77.31	45.22	19.63	66.81	13	10.5	68.75	39.97	415
		mm	*1964*	*1149*	*498*	*1697*	*330*	*267*	*1746*	*1015*	
IMET18126	1800 x 1200 x 600	inch	77.31	45.22	23.63	66.81	13	10.5	68.75	39.97	425
		mm	*1964*	*1149*	*600*	*1697*	*330*	*267*	*1746*	*1015*	
IMET18128	1800 x 1200 x 800	inch	77.31	45.22	31.50	66.81	13	17.5	68.75	39.97	450
		mm	*1964*	*1149*	*800*	*1697*	*330*	*445*	*1746*	*1015*	
IMET18165	1800 x 1600 x 500	inch	77.31	63.00	19.63	66.81	17	10.5	68.75	57.75	550
		mm	*1964*	*1600*	*498*	*1697*	*432*	*267*	*1746*	*1467*	
IMET18166	1800 x 1600 x 600	inch	77.31	63.00	23.63	66.81	17	10.5	68.75	57.75	560
		mm	*1964*	*1600*	*600*	*1697*	*432*	*267*	*1746*	*1467*	
IMET18168	1800 x 1600 x 800	inch	77.31	63.00	31.50	66.81	17	17.5	68.75	57.75	580
		mm	*1964*	*1600*	*800*	*1697*	*432*	*445*	*1746*	*1467*	
IMET20124	2000 x 1200 x 400	inch	86.06	45.22	15.75	75.56	13	10.5	77.50	39.97	420
		mm	*2168*	*1149*	*400*	*1919*	*330*	*267*	*1969*	*1015*	
IMET20125	2000 x 1200 x 500	inch	86.06	45.22	19.63	75.56	13	10.5	77.50	39.97	450
		mm	*2168*	*1149*	*498*	*1919*	*330*	*267*	*1969*	*1015*	
IMET20126	2000 x 1200 x 600	inch	86.06	45.22	23.63	75.56	13	10.5	77.50	39.97	460
		mm	*2168*	*1149*	*600*	*1919*	*330*	*267*	*1969*	*1015*	
IMET20128	2000 x 1200 x 800	inch	86.06	45.22	31.50	75.56	13	17.5	77.50	39.97	490
		mm	*2168*	*1149*	*800*	*1919*	*330*	*445*	*1969*	*1015*	
IMET20165	2000 x 1600 x 500	inch	86.06	63.00	19.63	75.56	17	10.5	77.50	57.75	540
		mm	*2168*	*1600*	*498*	*1919*	*432*	*267*	*1969*	*1467*	
IMET20166	2000 x 1600 x 600	inch	86.06	63.00	23.63	75.56	17	10.5	77.50	57.75	550
		mm	*2168*	*1600*	*600*	*1919*	*432*	*267*	*1969*	*1467*	
IMET20168	2000 x 1600 x 800	inch	86.06	63.00	31.50	75.56	17	17.5	77.50	57.75	570
		mm	*2168*	*1600*	*800*	*1919*	*432*	*445*	*1969*	*1467*	

Maximum Usable Depth

Panel in Full Back Position

Cabinet Depth (mm)	Without Bridge Panel (Inches)	With Bridge Panel (Inches)
400	14.63	13.88
500	18.50	17.75
600	22.50	21.75
800	30.38	29.63

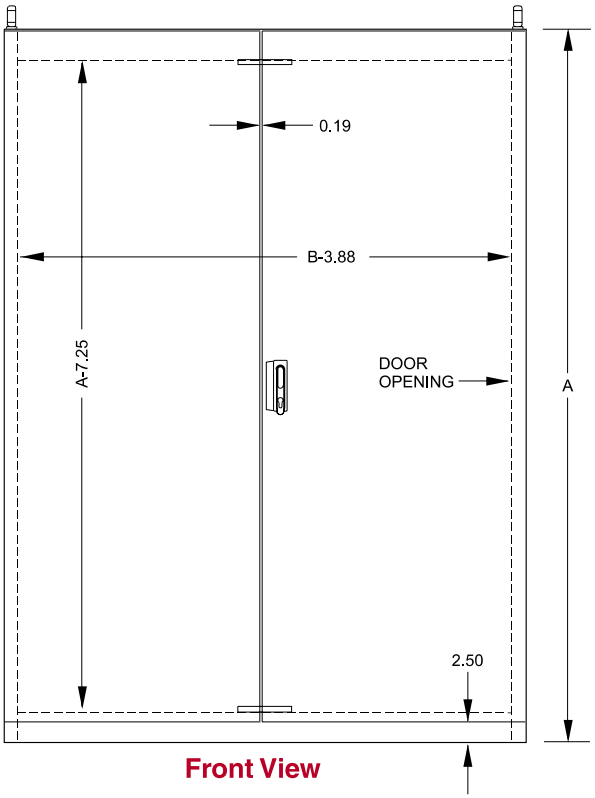
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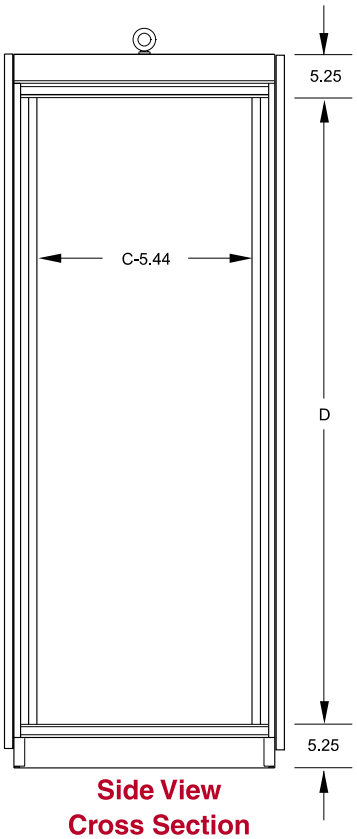
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Modular Freestanding Enclosures - NEMA 12

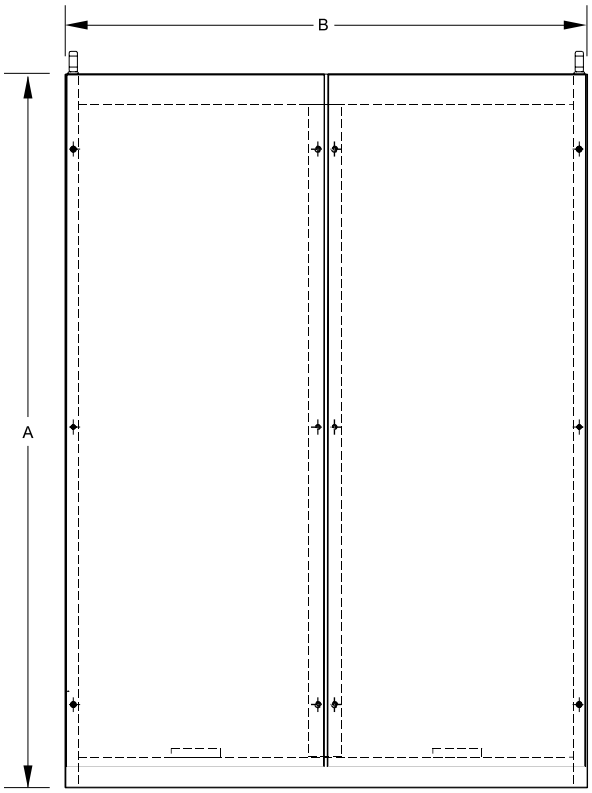
IMET Series Double Door Enclosure



Front View

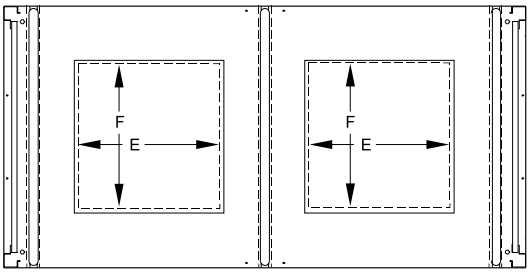


Side View
Cross Section

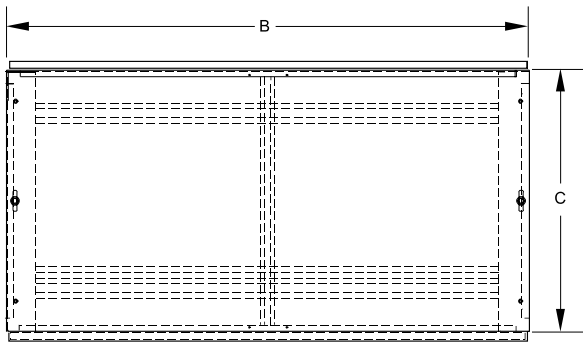


Rear View

Note: 1600 mm wide feature 2 piece rear cover;
1200 mm wide feature 1 piece rear cover.



Bottom View - Doors removed
Cross Section



Top View - Doors installed

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Modular Freestanding Enclosures - NEMA 12

IFMD Series Flange Mount Disconnect Enclosure

ABB, Allen Bradley, C-H Westinghouse, General Electric STDA, I-T-E Siemens Max-Flex™, Square D



Side Panels Sold Separately

Inner Panel Included

Note:
- Interlock hardware must be ordered separately.

Application

- The IFMD product line provides users with a rugged housing for industrial control and operator interface in harsh industrial environments.
- Modular design permits joining of units for large scale and mixed use applications.
- A broad range of industry standard sizes are offered. Units are constructed to imperial dimensions and hardware sizes, with metric sizing provided for convenient reference.
- IME Series enclosures are used as slave units to IFMD Disconnect Series.
- The flange mount disconnect units accommodate today's most popular disconnect hardware.
  - **ABB Controls** Disconnect Switches up to (and including) 200 amp, also operators for ABB circuit breakers up to 800 amp.
  - **Allen Bradley** 1494V variable depth flange mounted disconnect up to and including 200 amp and operators for C-H Westinghouse circuit breakers up to 400 amp.
  - **C-H Westinghouse** C361 flange mounted disconnect switches up to and including 200 amp and C371 circuit breakers up to 600 amp, also Flex Shaft handle mechanisms for circuit breakers.
  - **General Electric** Type STDA flange mounted variable depth flange operators for disconnect switches up to and including 200 amp and circuit breakers up to 600 amp or Spectra Flex™ cable operators for circuit breakers.
  - **I-T-E Siemens** Max-Flex™ flange mounted variable depth cable operators for disconnect switches up to 200 amp and circuit breakers up to 600 amp.
  - **Square D** class 9422 variable depth flange mounted operating mechanisms for disconnect switches up to and including 200 amp or cable mechanism for 30, 60 or 100 amp, also circuit breakers with variable depth operators or cable mechanism up to 400 amp.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529 IP54
- Appropriate components are required to maintain these standards. For approved interlock hardware...*see page* **236**

Standard Configuration

- Frame with integral solid top
- Lifting eyebolts
- Removable bottom panel
- Solid front door with key locking handle
- Disconnect to door handle activation hardware
- Hinged flange door
- Removable rear cover panel
- Inner mounting panel, additional panels available

Construction

- Formed 14 gauge steel.
- Frame has welded corner reinforcements.
- Mounting channels on sides of enclosure are oriented front to back for depth adjustment of mounting panels.
- Oil resistant gaskets are permanently secured on all openings.
- Reinforced eyebolts are provided for easy enclosure lifting.
- Frames are easily joined together with an optional frame Joining kit.
- Doors can be easily removed and interchanged.
- Optional formed 16 gauge steel side panels are recessed to fit flush with the sides of the cabinet. **Side panels must be ordered separately.**
- Bonding and grounding studs are provided for all doors and panels.

Finish

- Phosphatized and finished in RAL 7032 beige powder coating.
- Inner panels are finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***239***
- Air conditioners...*see page* ***388-405***
- Bridge panel...*see page* ***238***
- Caster assembly - inside mounting ...*see page* ***246***
- Caster assembly - outside mounting ...*see page* ***246***
- Center depth support...*see page* ***243***
- Door mount rails...*see page* ***238***
- Door shelf...*see page* ***243***
- Door support wheel...*see page* ***245***
- Fold down shelf...*see page* ***243***
- Joining kit...*see page* ***240***
- Leveling feet...*see page* ***244***
- Light kit and accessories...*see page* ***245***
- Literature pocket...*see page* ***244***
- Master interlock kit...*see page* ***244***
- Plinth...*see page* ***243***
- Side panels...*see page* ***238***
- Tamper resistant screws...*see page* ***239***
- Vented raised top...*see page* ***234***
- Top mount fan...*see page* ***363***

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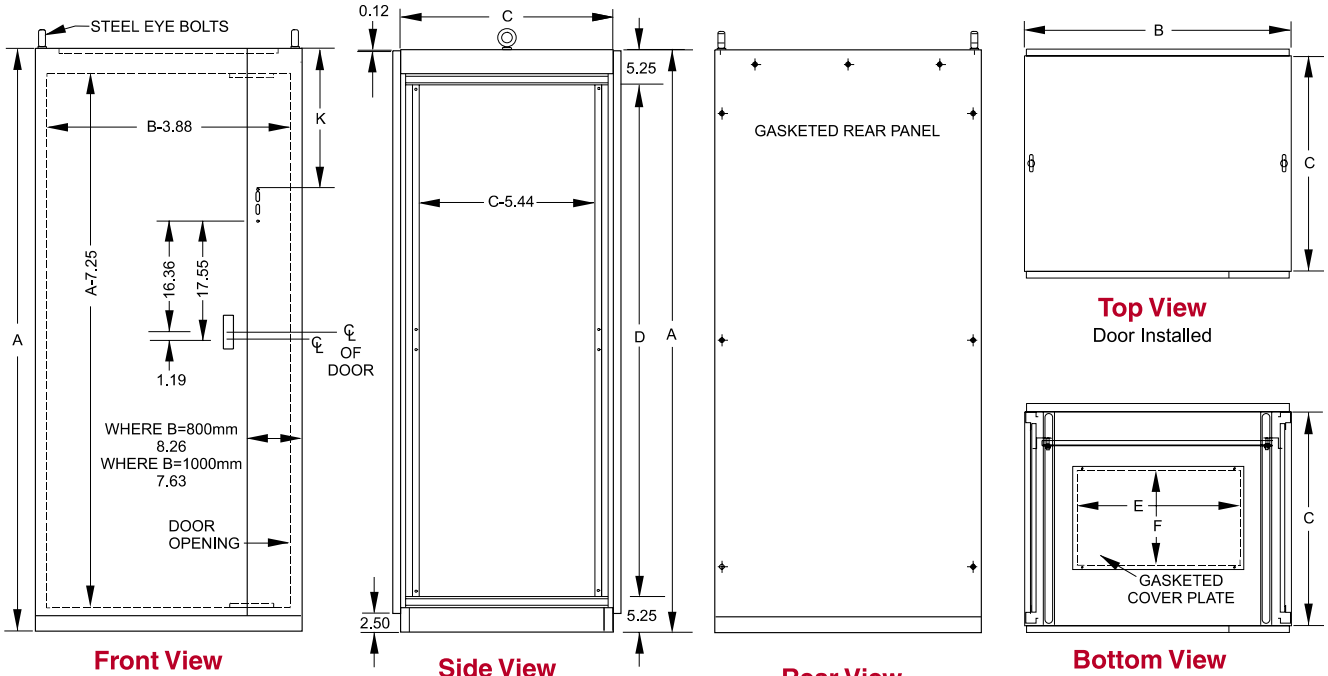
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Modular Freestanding Enclosures - NEMA 12

IFMD Series Flange Mount Disconnect Enclosure

ABB, Allen Bradley, C-H Westinghouse, General Electric STDA, I-T-E Siemens Max-Flex™, Square D



Front View | **Side View Cross Section** | **Rear View** | **Top View** Door Installed | **Bottom View Cross Section**

Maximum Usable Depth

(Panel in Full Back Position)

Cabinet Depth (mm)	Without Bridge Panel (inch)	With Bridge Panel (inch)
400	14.63	13.88
500	18.50	17.75
600	22.50	21.75
800	30.38	29.63

***Note:** K= 16.42 when A=77.31
K= 20.80 when A=86.06

Part No.	Nominal Dimensions A x B x C(mm)		Overall Dimensions (in/mm) A	B	C	D	E	F	Panel Dimensions Height	Width	Ship Wt. lbs
IFMD1885	1800 x 800 x 500	inch	77.31	31.50	19.63	66.81	17.00	10.5	68.75	26.25	295
		mm	*1964*	*800*	*498*	*1697*	*432*	*267*	*1746*	*667*	
IFMD1886	1800 x 800 x 600	inch	77.31	31.50	23.63	66.81	17.00	10.5	68.75	26.25	300
		mm	*1964*	*800*	*600*	*1697*	*432*	*267*	*1746*	*667*	
IFMD1888	1800 x 800 x 800	inch	77.31	31.50	31.50	66.81	17.00	17.5	68.75	26.25	320
		mm	*1964*	*800*	*800*	*1697*	*432*	*445*	*1746*	*667*	
IFMD18105	1800 x 1000 x 500	inch	77.31	39.37	19.63	66.81	24.06	10.5	68.75	34.12	345
		mm	*1964*	*1000*	*498*	*1697*	*611*	*267*	*1746*	*867*	
IFMD18106	1800 x 1000 x 600	inch	77.31	39.37	23.63	66.81	24.06	10.5	68.75	34.12	350
		mm	*1964*	*1000*	*600*	*1697*	*611*	*267*	*1746*	*867*	
IFMD18108	1800 x 1000 x 800	inch	77.31	39.37	31.50	66.81	24.06	17.5	68.75	34.12	360
		mm	*1964*	*1000*	*800*	*1697*	*611*	*445*	*1746*	*867*	
IFMD2085	2000 x 800 x 500	inch	86.06	31.50	19.63	75.56	17.00	10.5	77.50	26.25	310
		mm	*2186*	*800*	*498*	*1919*	*432*	*267*	*1969*	*667*	
IFMD2086	2000 x 800 x 600	inch	86.06	31.50	23.63	75.56	17.00	10.5	77.50	26.25	320
		mm	*2186*	*800*	*600*	*1919*	*432*	*267*	*1969*	*667*	
IFMD2088	2000 x 800 x 800	inch	86.06	31.50	31.50	75.56	17.00	17.5	77.50	26.25	340
		mm	*2186*	*800*	*800*	*1919*	*432*	*445*	*1969*	*667*	
IFMD20105	2000 x 1000 x 500	inch	86.06	39.37	19.63	75.56	24.06	10.5	77.50	34.12	375
		mm	*2186*	*1000*	*498*	*1919*	*611*	*267*	*1969*	*867*	
IFMD20106	2000 x 1000 x 600	inch	86.06	39.37	23.63	75.56	24.06	10.5	77.50	34.12	385
		mm	*2186*	*1000*	*600*	*1919*	*611*	*267*	*1969*	*867*	
IFMD20108	2000 x 1000 x 800	inch	86.06	39.37	31.50	75.56	24.06	17.5	77.50	34.12	390
		mm	*2186*	*1000*	*800*	*1919*	*611*	*445*	*1969*	*867*	

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Modular Freestanding Enclosures - NEMA 12

IPC Series PC Enclosure



Window Door



Solid Door

Application

- The IPC product line provides users with a rugged housing for industrial control, operator interface and computer equipment in harsh industrial environments.
- Modular design permits joining of units for large scale and mixed use applications.
- Increasingly, PC technology is utilized on the factory floor. The PC enclosure provides a secure housing for standard PC components.
- A broad range of industry standard sizes are offered. Units are constructed to imperial dimensions and hardware sizes, with metric sizing provided for convenient reference.

Standards

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529 IP54

Standard Configuration

- Frame with integral solid top
- Provision for lifting eyebolts (included)
- 4 internal mounting rails
- Removable bottom panel
- Top window or solid door with key locking handle
- Monitor shelf (window door version)
- Drop down keyboard door with locking hardware
- Self contained keyboard compartment
- Pull-out keyboard shelf with left/right mouse tray
- Solid bottom door with key locking handle
- Solid full-height rear door with key locking handle
- Pair of solid side panels

Construction

- Formed 14 gauge steel.
- Frame features welded corner reinforcements.
- Oil resistant gaskets are permanently secured on all openings.
- Frames are easily joined together with an optional joining kit.
- Doors can be easily removed.
- Formed 16 gauge steel side panels are recessed to fit flush with the sides of the cabinet.
- Bonding and grounding studs are provided for all doors and handles.

Finish

- Phosphatized and finished in RAL 7032 beige powder coating.
- Monitor shelf is finished in RAL 7032 beige powder coating.
- Keyboard door is finished in black powder coating.

Accessories

- Base inner panel...*see page* **242**
- Caster assembly-inside mounting ...*see page* **246**
- Caster assembly-outside mounting ...*see page* **246**
- Door shelf...*see page* **243**
- Fixed vented shelf...*see page* **242**
- Fold down shelf...*see page* **243**
- Joining kit...*see page* **240**
- Leveling feet...*see page* **244**
- Light kit and accessories ...*see page* **245**
- Literature pocket...*see page* **244**
- Plinth...*see page* **243**
- Power bars...*see page* **438-441**
- Printer shelf...*see page* **242**
- Server shelf...*see page* **242**
- Tamper resistant screws ...*see page* **245**
- Vented raised top...*see page* **240**
- Top mount fan...*see page* **415**

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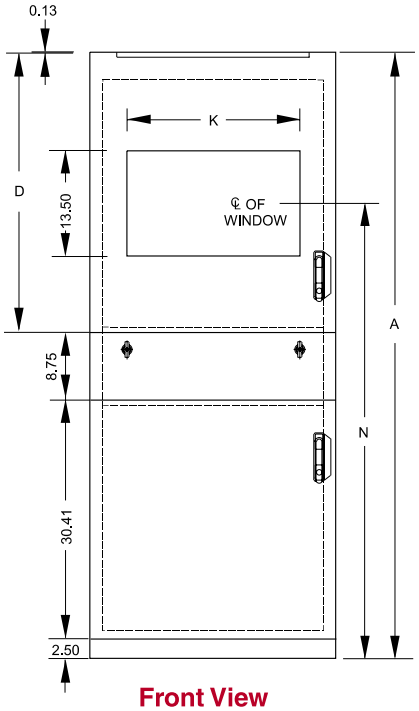
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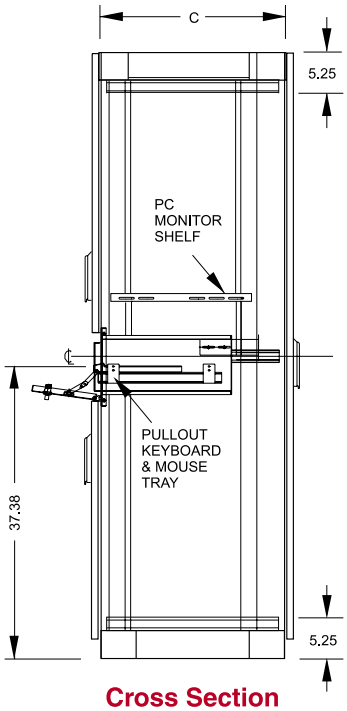
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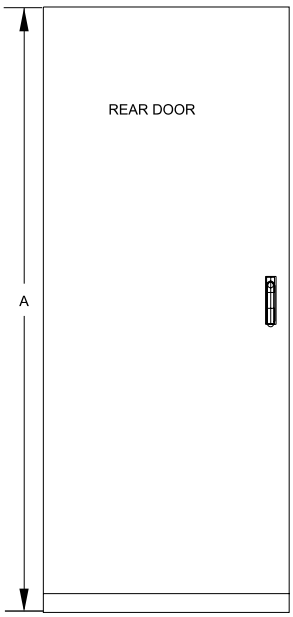
IPC Series PC Enclosure



Front View



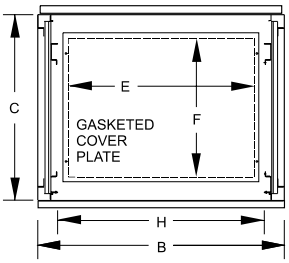
Cross Section Side View



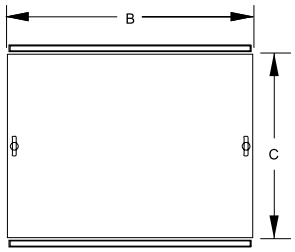
Rear View

Keyboard Dimensions

Enclosure Width (mm)		Maximum Keyboard Width
700	inch	20.0
	mm	*508*
800	inch	24.0
	mm	*610*



Cross Section - Bottom View



Top View
Doors Installed

Window Door Part No.	Solid Door Part No.	Nominal Dimensions A x B x C (mm)		Overall Dimensions A	B	C	D	E	F	H	K	N	Ship Wt. lbs
IPC1676	**IPC1676ST**	1600 x 700 x 600	inch	70.31	28.00	23.63	26.66	17	10.5	22.8	18	54	340
			mm	*1786*	*711*	*600*	*677*	*432*	*267*	*579*	*457*	*1372*	
IPC1678	**IPC1678ST**	1600 x 700 x 800	inch	70.31	28.00	31.50	26.66	17	17.5	22.8	18	54	355
			mm	*1786*	*711*	*800*	*677*	*432*	*445*	*579*	*457*	*1372*	
IPC1686	**IPC1686ST**	1600 x 800 x 600	inch	70.31	31.50	23.63	26.66	24	10.5	26.3	22	54	350
			mm	*1786*	*800*	*600*	*677*	*610*	*445*	*668*	*559*	*1372*	
IPC1876	**IPC1876ST**	1800 x 700 x 600	inch	77.31	28.00	23.63	33.66	17	10.5	22.8	18	58	355
			mm	*1964*	*711*	*600*	*855*	*432*	*267*	*579*	*457*	*1473*	
IPC1878	**IPC1878ST**	1800 x 700 x 800	inch	77.31	28.00	31.50	33.66	17	17.5	22.8	18	58	380
			mm	*1964*	*711*	*800*	*855*	*432*	*445*	*579*	*457*	*1473*	
IPC1886	**IPC1886ST**	1800 x 800 x 600	inch	77.31	31.50	23.63	33.66	24	10.5	26.3	22	58	370
			mm	*1964*	*800*	*600*	*855*	*610*	*267*	*668*	*559*	*1473*	

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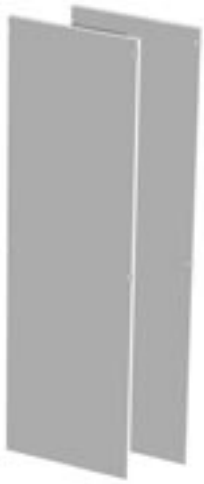
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Modular Freestanding Enclosures - NEMA 12

Accessories



IME Side Panels

- Maintains UL/CSA Type 12 approvals.
- Screw fastens into frame.
- Bond studs provided for grounding.
- Finished in beige.
- Packaged in quantities of two.
- Optional tamper resistant screws available...*see page* ***245***.



Part No. (Pair)	For Use With Enclosure A x C (mm)
ISP166	1600 x 600
ISP168	1600 x 800
ISP184	1800 x 400
ISP185	1800 x 500
ISP186	1800 x 600
ISP188	1800 x 800
ISP204	2000 x 400
ISP205	2000 x 500
ISP206	2000 x 600
ISP208	2000 x 800



IME Bridge Panel

- Mounts between inner panels of joined enclosures.
- Finished in white.



Part No.	For Use With Enclosure Nominal Height (mm)		Overall Dimensions Height	Overall Dimensions Width
IBP16	1600	inch	59.31	5.13
		mm	*1507*	*130*
IBP18	1800	inch	66.31	5.13
		mm	*1684*	*130*
IBP20	2000	inch	75.06	5.13
		mm	*1907*	*130*



IME Door Mount Rails

- Allows for a variety of door mounting applications.
- Mounts to studs on door.
- Finished in beige.
- Packaged in quantities of two.



Part No.	For Use With Enclosure Nominal Height (mm)		Usable Height
IDMR16	1600	inch	50.25
		mm	1276
IDMR18	1800	inch	57.25
		mm	1454
IDMR20	2000	inch	64.25
		mm	1632

Door Width (mm)	Door Mounting Rail Centers	
600	inch	16.13
	mm	*410*
700	inch	21.38
	mm	*543*
800	inch	21.38
	mm	*543*
1000	inch	31.00
	mm	*787*

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Additional Inner Panel

- For use with IME, IFMD and IMET Series.
- Can be used with IPC Series, must order IPC Base Panel Bracket (Part No. **IPCPSK)**.
- Replacement or additional mounting panel (standard enclosures include 1 inner mounting panel).
- 12 gauge (IME, IFMD) or 10 gauge (IMET) steel panel.
- Comes complete with all mounting hardware.
- Finished in white.



Part No	Fits IME/IMET/IFMD Nominal Dimension		Panel Size (In.)	
	A	B	Height	Width
IMEP166	1600	600	61.75	17.75
IMEP167	1600	700	61.75	22.75
IMEP168	1600	800	61.75	26.25
IMEP1612	1600	1200	61.75	40.00
IMEP186	1800	600	68.75	17.75
IMEP187	1800	700	68.75	22.75
IMEP188	1800	800	68.75	26.25
IMEP1810	1800	1000	68.75	34.12
IMEP1812	1800	1200	68.75	40.00
IMEP1816	1800	1600	68.75	57.75
IMEP206	2000	600	77.50	17.75
IMEP207	2000	700	77.50	22.75
IMEP208	2000	800	77.50	26.25
IMEP2010	2000	1000	77.50	34.12
IMEP2012	2000	1200	77.50	40.00
IMEP2016	2000	1600	77.50	57.75



Side Mount Inner Panel

- For use with IME, IFMD and IMET Series only
- 12 gauge steel.
- Comes complete with all mounting hardware.
- Finished in white.



Part No.	For Use With Enclosure A x C (mm)	Height	Width
IMEPS166	1600 x 600	62.75	17.12
IMEPS168	1600 x 800	62.75	25.00
IMEPS184	1800 x 400	69.75	9.25
IMEPS185	1800 x 500	69.75	13.12
IMEPS186	1800 x 600	69.75	17.12
IMEPS188	1800 x 800	69.75	25.00
IMEPS204	2000 x 400	78.50	9.25
IMEPS205	2000 x 500	78.50	13.12
IMEPS206	2000 x 600	78.50	17.12
IMEPS208	2000 x 800	78.50	25.00

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Accessories

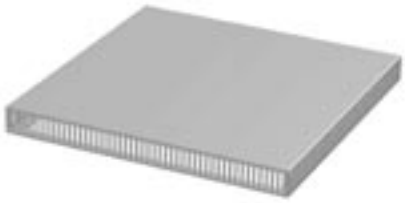


IME Joining Kit

- Connects side by side units at 6 points.
- Maintains UL/CSA Type 12 approvals.
- Finished in beige.

Part No.	For Use With Enclosure A x C (mm)
IJK166	1600 x 600
IJK168	1600 x 800
IJK184	1800 x 400
IJK185	1800 x 500
IJK186	1800 x 600
IJK188	1800 x 800
IJK204	2000 x 400
IJK205	2000 x 500
IJK206	2000 x 600
IJK208	2000 x 800





Vented Raised Top

- For use with IME, IFMD and IPC Series only.
- Provides top ventilation in enclosure.
- Cutout diagram provided.
- Comes complete with all mounting hardware.
- Finished in beige.



Part No	Fits IME/IPC/IFMD Nominal Dimension		Actual Outside Dimension		
	B(mm)	C(mm)	A(In.)	B(In.)	C(In.)
IPT64	600	400	2.00	13.13	13.75
IPT65	600	500	2.00	13.13	17.63
IPT66	600/700	600	2.00	13.13	21.63
IPT68	600/700	800	2.00	13.13	29.50
IPT84	800	400	2.00	21.63	13.75
IPT85	800/1000	500	2.00	21.63	17.63
IPT86	800/1000	600	2.00	21.63	21.63
IPT88	800/1000	800	2.00	21.63	29.50

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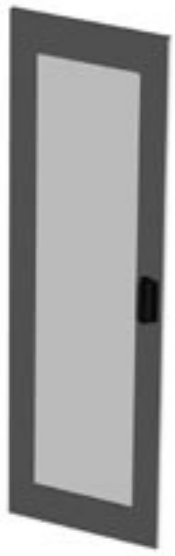
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Modular Freestanding Enclosures - NEMA 12

Accessories





Window Door

- For use with IME Series only.
- Provides maximum viewing area of enclosed equipment.
- Maintains NEMA 12 rating.
- UL 94-VO polycarbonate window.
- Removable and reversible for left or right hand opening.
- **NOTE:** Left hand opening will not work with interlock kits.
- Complete with locking handle and required mounting hardware.
- Finished in beige.

Part No	For Use With Enclosure A x B (mm)	Viewing Area (In.) A	B
IMEWD166	1600 x 600	56.69	15.00
IMEWD167	1600 x 700	56.69	20.00
IMEWD168	1600 x 800	56.69	23.50
IMEWD186	1800 x 600	63.69	15.00
IMEWD187	1800 x 700	63.69	20.00
IMEWD188	1800 x 800	63.69	23.50
IMEWD1810	1800 x 1000	63.69	31.37
IMEWD206	2000 x 600	72.44	15.00
IMEWD207	2000 x 700	72.44	20.00
IMEWD208	2000 x 800	72.44	23.50
IMEWD2010	2000 x 1000	72.44	31.37





Solid Door

- For use with the IME Series only.
- Maintains NEMA 12 rating.
- Constructed of 14 gauge steel.
- Smooth action handle provides solid NEMA 12 seal.
- Quick release hinge design allows for easy removal.
- Can fit either front or back of frame.
- Complete with locking handle and required mounting hardware.
- Finished in beige.

Part No.	For Use With Enclosure A x B (mm)
IMESD166	1600 x 600
IMESD167	1600 x 700
IMESD168	1600 x 800
IMESD186	1800 x 600
IMESD187	1800 x 700
IMESD188	1800 x 800
IMESD1810	1800 x 1000
IMESD206	2000 x 600
IMESD207	2000 x 700
IMESD208	2000 x 800
IMESD2010	2000 x 1000

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Modular Freestanding Enclosures - NEMA 12

Accessories



Printer Shelf

IPC Enclosure Shelves

- Pull-out printer shelf with 3 levels for printer, paper feed and paper collection, finished in black.
- Pull-out server shelf with handle for convenience, finished in white.
- Slides included.



Printer Shelf Part No.	For Use with Enclosure Nominal Width		Usable Shelf Dimensions Height	Width	Depth
IPCPS7	700mm	inch	12.25	21.59	19.00
		mm	311	548	483
IPCPS8	800mm	inch	12.25	25.09	19.00
		mm	311	637	483



Server Shelf

Server Shelf Part No.	For Use with Enclosure Nominal Width x Depth		Usable Shelf Dimensions Width	Depth
IPCSS76	700mm x 600mm	inch	21.56	16.00
		mm	548	406
IPCSS78	700mm x 800mm	inch	21.56	23.88
		mm	548	607
IPCSS86	800mm x 600mm	inch	25.15	16.00
		mm	639	406



IPC Fixed Vented Shelf

- For use with IPC Series only (**NOTE:** standard IPC enclosure with window includes 1 Fixed Vented Shelf for top section as standard).
- Vented shelf provides a sturdy shelf while still allowing air flow.
- Comes complete with all mounting hardware.
- Finished in beige.

Part No	Fits IPC Nominal Dimension B	C	Shelf Size (In.) W	D
IPCFVS76	700	600/800	22.75	18.00
IPCFVS86	800	600	26.25	18.00





IPC Base Inner Panel

- For use with IPC Series only
- Provides electrical panel mounting in bottom compartment of IPC enclosure.
- 12 gauge steel panel.
- Comes complete with all mounting hardware.
- Finished in white.
- Not compatible when using IPC shelves.

Part No	Fits IPC Nominal Dim. B	C	Panel Size (In.) Ht	Width
IPCBP76	700	600	27.50	22.25
IPCBP78	700	800	27.50	22.25
IPCBP86	800	600	27.50	25.75



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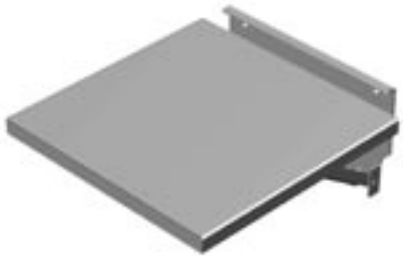
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Modular Freestanding Enclosures - NEMA 12

Accessories



Fold Down Shelf

- Supports various equipment used temporarily to service/program switchgear inside enclosures.
- Mounts with bolts through doors or sides.
- Weight capacity 100 lbs.
- Finished in beige.

Part No	Work Surface (In.) W	D
FDS1212	12	12
FDS1818	18	18

Hardware Included



IME Door Shelf

- Mounts to studs on door or door mount rails (sold separately)...*see page* **232.**
- Can be easily repositioned to various heights, quickly folds up and down.
- Finished in beige.

Hardware Included

Part No.		For Use With Nominal Door Width (mm)	Shelf Dimensions Width	Depth
IDS6	inch	600	15.00	14.06
	mm		381	357
IDS7	inch	700, 800, 1000	20.25	14.06
	mm		*514*	*357*

Note - subtract 200mm from nominal overall width of IFMD series units to determine main door width (e.g. 1000mm has 800mm door)



Plinth

- Plinths install under enclosure for additional cable entry space or lift access.
- Adds 4" to overall enclosure height.
- 4 corners bolt to enclosure with 4 removable fill panels.
- Not compatible with leveling feet.
- Comes complete with all mounting hardware.
- Two plinths required for IMET, see chart.
- Finished in beige.

Hardware Included

Part No	Fits IME/IPC/IFMD Nominal Dimension B	C	IMET (2pc.) B
IPL64	600	400	1200
IPL65	600	500	1200
IPL66	600	600	1200
IPL68	600	800	1200
IPL76	700	600	N/A
IPL78	700	800	N/A
IPL84	800	400	N/A
IPL85	800	500	1600
IPL86	800	600	1600
IPL88	800	800	1600
IPL105	1000	500	2000
IPL106	1000	600	2000
IPL108	1000	800	2000



IME Center Depth Support

- Provides additional support to enclosure or suites of joined enclosures housing heavy panel loads.
- Cannot be mounted where a bridge panel is installed.
- Recommended for IFMD enclosures.
- Packaged in quantities of two.
- Finished in beige.

Part No. (Pair)	Fits Enclosure Depth
IMECDS4	400 mm
IMECDS5	500 mm
IMECDS6	600 mm
IMECDS8	800 mm

Hardware Included

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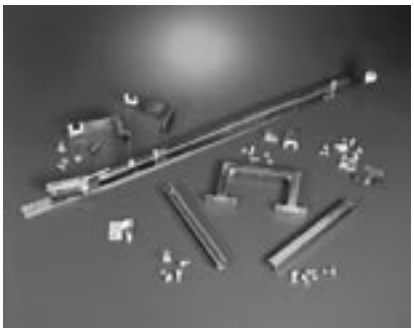
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Modular Freestanding Enclosures - NEMA 12

Accessories



Master Interlock Kit



Slave Interlock Kit



Slave Interlock Joining Kit

Interlock Hardware

- All kits maintain Type 12 approvals.
- **Master Interlock Kit** - for rightmost enclosure.
- **Slave Interlock Kit** - required for each slave door to be interlocked with master door.
- **Slave Interlock Joining Kit** - interlock rods for all single door cabinet widths (not required for first slave unit)
- Yellow zinc-dichromate plated.
- Not compatible with 2 door units (IMET Series).

Part No.	Description
IMK	Master Interlock Kit (master cabinet only)
ISK16	Slave Interlock Kit for 1600mm high (1 for each slave cabinet)
ISK18	Slave Interlock Kit for 1800mm high (1 for each slave cabinet)
ISK20	Slave Interlock Kit for 2000mm high (1 for each slave cabinet)
ISKJ6[1]	Slave Interlock Joining Kit for 600mm wide
ISKJ7[1]	Slave Interlock Joining Kit for 700mm wide
ISKJ8[1]	Slave Interlock Joining Kit for 800mm wide
ISKJ10[1]	Slave Interlock Joining Kit for 1000mm wide

[1] ISKJ only required to join slave unit to slave unit. For side by side slave units, ISKJ width refers to enclosure on right.





Leveling Feet

- Set of 4 leveling feet available in non-skid or standard base.
- 4 leveling feet will support a maximum of 800 lbs.

Part No.	Description
CLFKNS	Non-skid rubber base
CLFK	Standard nylon base



Literature Pocket Kit

- For use as additional or replacement literature pockets.
- Kit includes pocket, high strength two-sided adhesive tape and surface preparation swab.
- Plastic pocket is black.
- Packaged individually.

Part No.	Height	Width	Depth
PKT66	6	6	0.75
PKT99	6	9	0.75
PKT1212	12	12	2.50

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Remote door switch not included - must be ordered separately.

Light Kit & Accessories

- Light kits are offered in 18", 24" and 48" widths.
- Includes one outlet, features on/off switch.
- Can mount into light mounting channel, bolt through enclosure or by using magnet strip (available separately).
- Door switch available separately for automatic activation (Part No. **FLKDS**).
- T8 fluorescent bulb not included.

Part No.	Description
FLK18T8[1]	18" Fluorescent Light Kit
FLK24T8[1]	24" Fluorescent Light Kit
FLK48T8[1]	48" Fluorescent Light Kit
FLK18MM	Magnet mount for 18" and 24" kit
FLK48MM	Magnet mount for 48" light kit
FLKDS	Remote Door Switch

[1] T8 fluorescent bulb not included





IME Door Support Wheel

- Mounts to studs on door.
- Provides easier closing and extra support when significant weight is mounted on the door.

Part No.	IDSW





IME Tamper Resistant Screw Kit

- Replacement screws for side and rear panels.
- Provide added safety and security.
- Package consists of 8 security hex screws and 1 security hex key.
- Please see the chart below to determine how many kits to order.

Part No.	ISPTPKIT

Component	# Screws Req'd	# Kits to Order
Side Panels (Pair)	8	1
Rear Panel (600, 700, 800 mm)	6	1
Rear Panel (1000 mm)	9	2
Rear Panel (1200, 1600 mm)	12	2

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Modular Freestanding Enclosures - NEMA 12

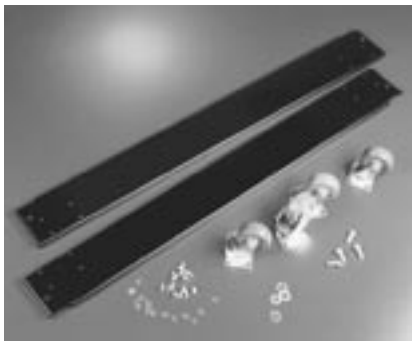
Accessories



Caster Assembly - Outside Mounting

- Available in either locking or non-locking format.
- Sold in **pairs** allowing for mix of locking and non-locking on same cabinet.
- Wheels have a diameter of 3.5".
- No drilling required as casters fit into built-in caster mounts.
- Mounts outside integral plinth and adds 4.88" to overall cabinet height.
- Side, front or rear mounting.
- 1000 lb. weight capacity per set of four casters.
- Not recommended for use with 1200 or 1600 mm wide units.

Part No. (Pair)	Description
CCSTL	Locking
CCSTN	Non-Locking



Caster Assembly - Inside Mounting

- Mounts **inside** integral plinth and adds 1.38" to overall cabinet height.
- 1080 lb. load capacity per set of four casters.
- Not recommended for 400 mm deep units.
- Packaged in quantities of four.
- Finished in black.

Part No.	Fits Enclosure Nominal Width (mm)
ICST6	600
ICST7	700
ICST8	800
ICST10	1000
ICST12	1200
ICST16	1600

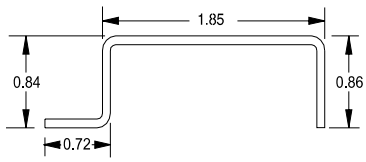




19"/24" Mounting Rails

- Provides 19" rack mounting centers in 600mm wide units and 24" rack mounting centers in 700mm wide units.
- Pairs of rails are available with mounting hardware in zinc plated (ZPL) finishes.
- Tapped rails are made of 10 gauge steel, are tapped 10-32 with full EIA centers.

Combination Rails Tapped (Pair)	Fits Enclosure Height mm	Panel Height Inches	EIA Units
CCR63TZPL	1600	63.00	36
CCR70TZPL	1800	70.00	40
CCR78TZPL	2000	78.75	45



Combination Rails

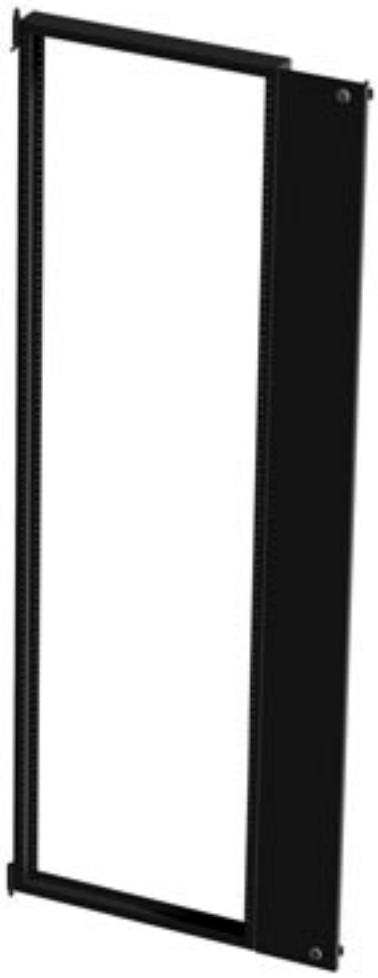
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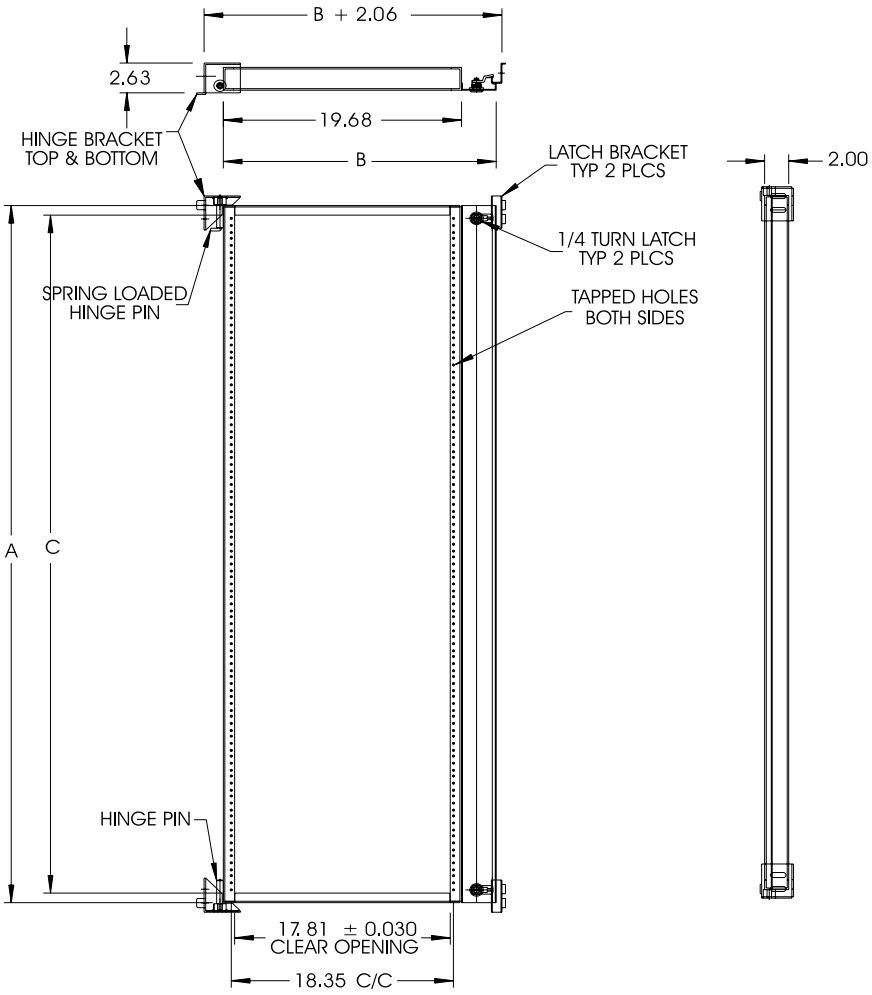
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IME Series Swing Frame

- Provides 19" rack mounting in IME Series enclosures.
- Available for 700mm wide and 800mm wide cabinets.
- Can be hinged right or left.
- Can be mounted at any depth in the enclosure.
- Simple installation (4 bolts).
- Spring loaded hinge pins.
- Mounting holes tapped 10-32.
- Finished in flat black.

Part No	A	B	C	For Use With
IMESWF167	61.25	22.54	34 U	IME Frame 1600 high x 700
IMESWF168	61.25	26.04	34 U	IME Frame 1600 high x 800
IMESWF187	68.25	22.54	38 U	IME Frame 1800 high x 700
IMESWF188	68.25	26.04	38 U	IME Frame 1800 high x 800
IMESWF207	77.00	22.54	43 U	IME Frame 2000 high x 700
IMESWF208	77.00	26.04	43 U	IME Frame 2000 high x 800



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Operator Interface Enclosures


Series 2000 Modular Console System
Base Units -
NEMA 12, 4, 4X **252**


Series 2000 Modular Console System
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Series 2000 Modular Console System
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Pushbutton Enclosures -
1437 & 1437M Extra Deep Series
NEMA 12, 13 ..... **304**


Pushbutton Enclosures -
1437 & 1437M Extra Deep Stainless Steel Series
NEMA 12, 13 ..... **306**


Pushbutton Enclosures -
1489 & 1489M Continuous Hinge Series
NEMA 12 ..... **308**


Pushbutton Enclosures -
1490 & 1490M Sloped Front Consolet Series
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Polycarbonate Modular Enclosures
1554 Pushbutton Lift-Off Cover Series
NEMA 4, 4X **312**


Polyester Modular Enclosures
PJ Solid Cover & Pushbutton Lift-Off Series
NEMA 4, 4X **314**


Polyester Modular Enclosures
PJ Pushbutton Lift-Off &
Hinged Screw CoverSeries
NEMA 4X **316**

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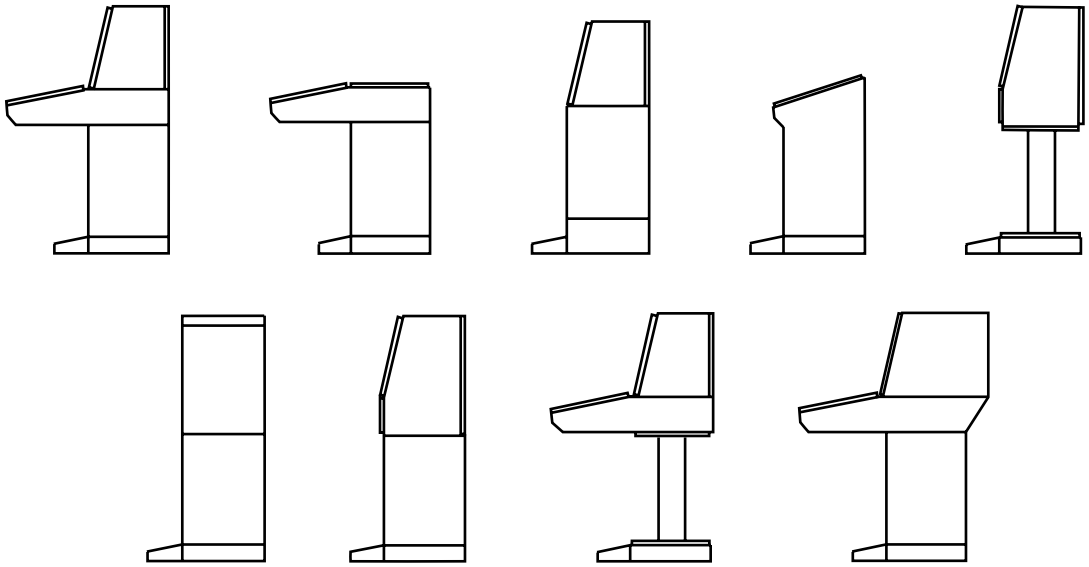
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Series 2000 Modular Console System - NEMA 12, 4, 4X

Configurations

Series 2000 Modular Console System

The Series 2000 Modular Console System offers designers numerous assembly and configuration choices. This system allows units to be “stacked” in multiple combinations to provide equipment support and display functions exactly where you want them.



How to Configure Your System

To configure your system you’ll need to go through the following steps:

STEP 1 - **Protection requirements**

Type 12 beige = "2CR…" part numbers
Type 4 grey = "2CP…" part numbers
Type 4X stainless steel = "2CS…" part numbers

STEP 2 - Width requirements (24, 36, 48, 60 inch)

STEP 3 - Basic component requirements:

Bottom - (a) base, (b) dual access base, or (c) pedestal
Top - (a) standard desk and desk cover, (b) deep desk and desk cover, (c) standard turret, (d) deep turret, (e) standard desk/turret combination, (f) deep desk/turret combination, (g) another base and base cover, or (h) data terminal
Stand Alone - Consolet

STEP 4 - External Accessories (if applicable): plinth, footrest, window doors or depth extension

STEP 5 - Internal Accessories (if applicable): electrical mounting panels, electronic mounting rails, swing frames, etc.

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Series 2000 Modular Console System - NEMA 12, 4, 4X

Base Units



Single Access



Dual Access

Electronic Industries Alliance

Application

- Flexible design provides panel mount or rack mount capabilities for a variety of applications.
- Generally used in combination with other modular console components (ie. another base, terminal, desk and/or turret).
- Available in either single or dual access format.
- Smooth lines and clean edges provide an attractive, contemporary appearance.

Standards

RAL 7032 Beige

- UL 508 Type 12
- CSA Type 12
- EIA RS-310-D
- Complies with
  - NEMA Type 12
  - IEC 60529, IP54

ANSI 61 Gray

- UL 508 Type 3R, 4,12
- CSA Type 3R, 4, 12, 13
- EIA RS-310-D
- Complies with
  - NEMA Type 3R, 4, 12
  - IEC 60529, IP66

Stainless Steel (Type 304)

- UL 508 Type 3R, 4, 4X, 12
- CSA Type 3R, 4, 4X, 12
- EIA RS-310-D
- Complies with
  - NEMA Type 3R, 4, 4X, 12
  - IEC 60529, IP66

Construction

- Formed 14 gauge steel bodies with 14 gauge steel door.
- Also offered with formed 14 gauge 304 stainless steel bodies with 14 gauge 304 stainless steel door.
- Smooth, continuously welded seams.
- Body stiffeners are provided where required for increased strength and rigidity.
- Offered in 4 widths 24", 36", 48" and 60".
- Single access version has solid sides and back, solid door on front, open top, and closed bottom with removable access panel.
- Dual access version is same as above except has solid door on both front and back.
- 24" and 36" widths have single door on the front (and back for dual access) whereas 48" and 60" widths have two outside hinged doors on the front (and back for dual access.)
- Doors can be hinged from either side on 24" and 36" units.
- Door profiles provide increased strength and are pre-punched to provide mounting options.
- Formed lip on enclosure excludes flowing liquids and contaminants.
- Slotted quarter turn oil-tight latches secure the door, with optional tamper resistant and locking latches available.
- Stainless steel models utilize stainless steel hardware.
- Oil resistant gaskets are permanently secured.
- Features several internal stud locations for mounting of various accessories.
- A bonding screw is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Available in RAL 7032 beige powder coating, ANSI 61 gray powder coating and natural stainless steel with a smooth, brushed finish.
- Base Covers are available in the same finishes.

Accessories

- Air conditioners...*see page* ***389***
- Base cover...*see page* ***266***
- Base panel...*see page* ***267***
- Base window door...*see page* ***267***
- Blowers...*see page* ***406***
- Filter fans...*see page* ***408-414***
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- Series 2000 Modular Console Accessories...*see page* ***264-271***
- Rack Mount Accessories ...*see page* ***272-274***

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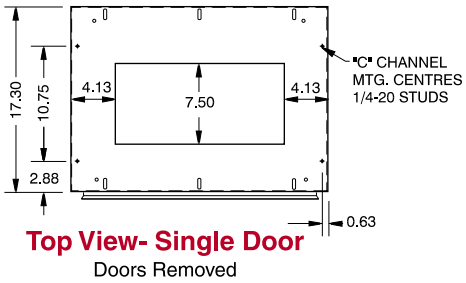
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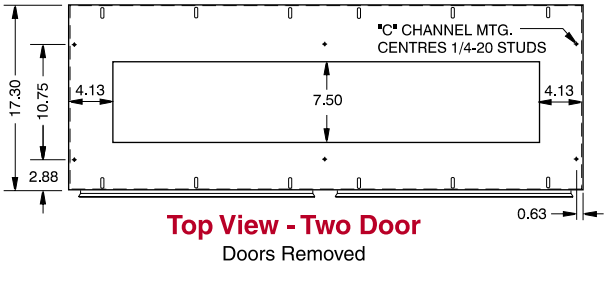
Series 2000 Modular Console System - NEMA 12, 4, 4X

Base Units

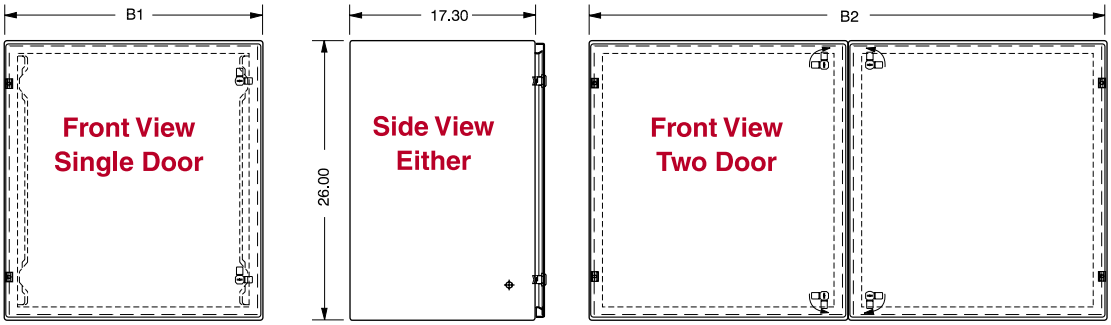
Single Access



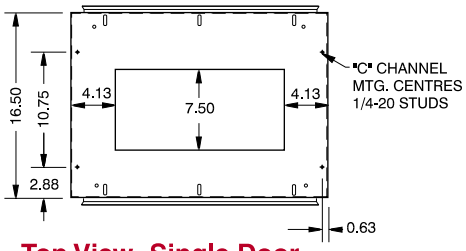
Top View- Single Door
Doors Removed



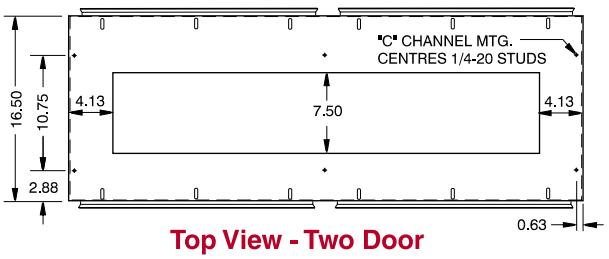
Top View - Two Door
Doors Removed



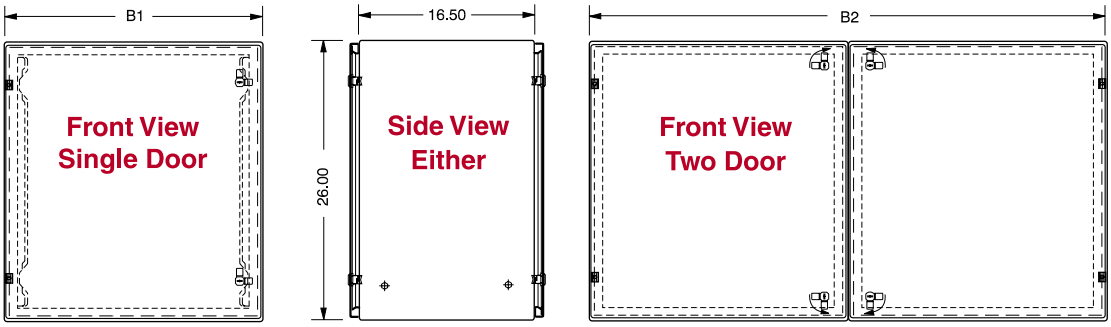
Dual Access



Top View- Single Door
Doors Removed



Top View - Two Door
Doors Removed



Single Access

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B1	B2
2CRB262418	**2CPB262418**	**2CSB262418**	24	n/a
2CRB263618	**2CPB263618**	**2CSB263618**	36	n/a
2CRB264818	**2CPB264818**	**2CSB264818**	n/a	48
2CRB266018	**2CPB266018**	**2CSB266018**	n/a	60

Dual Access

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B1	B2
2CRBX262418	**2CPBX262418**	**2CSBX262418**	24	n/a
2CRBX263618	**2CPBX263618**	**2CSBX263618**	36	n/a
2CRBX264818	**2CPBX264818**	**2CSBX264818**	n/a	48
2CRBX266018	**2CPBX266018**	**2CSBX266018**	n/a	60

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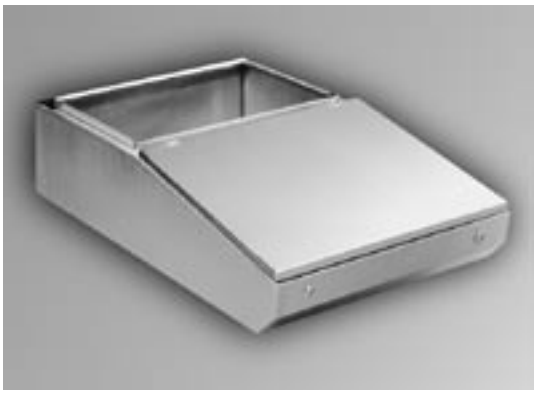
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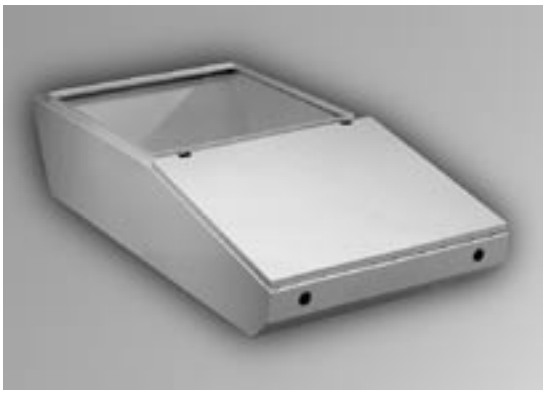
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Series 2000 Modular Console System - NEMA 12, 4, 4X

Desk Units



Standard Desk



Deep Desk

Application

- Generally used in combination with other modular console components (ie. base, pedestal, and/or turret).
- Provides an ideal sloped surface for mounting keyboards, switches, indicator lights, and/or dials.
- Open top permits mounting of a turret (usually for CRT applications) or an optional hinged desk cover (providing a flat, sturdy desk surface).
- Available in either Standard (will support Standard Turret only) or Deep (will support Deep Turret only) format.
- Smooth lines and clean edges provide an attractive, contemporary appearance.

Standards

RAL 7032 Beige

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

ANSI 61 Gray

- UL 508 Type 3R, 4, 12
- CSA Type 3R, 4, 12
- **Complies with**
  - NEMA Type 3R, 4, 12
  - IEC 60529, IP66

Stainless Steel (Type 304)

- UL 508 Type 3R, 4, 4X, 12
- CSA Type 3R, 4, 4X, 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12
  - IEC 60529, IP66

Construction

- Formed 14 gauge steel bodies with 14 gauge steel lid.
- Also offered with formed 14 gauge 304 stainless steel bodies with 14 gauge 304 stainless steel lid.
- Smooth, continuously welded seams without knockouts or holes.
- Body stiffeners are provided where required for increased strength and rigidity.
- Offered in 4 widths 24", 36", 48" and 60".
- Solid sides and back, lid on sloped top area, open on flat top area, bottom is solid under lid area and open under flat top area.
- Deep Desk has a 6.7" deeper top opening than standard desk allowing for support of Deep Turret - see drawings as Deep Desk has different profile (angled back) from Standard Desk (flat back.)
- Lid profiles provide increased strength.
- Formed lip on enclosure excludes flowing liquids and contaminants.
- Slotted quarter turn oil-tight latches secure the lid, with optional tamper resistant and locking latches available.
- Stainless steel models utilize stainless steel hardware.
- Oil resistant gaskets are permanently secured.
- Features several internal stud locations for mounting Desk Inner Panel.
- A bonding screw is provided on the lid and a grounding stud is provided in the enclosure.

Finish

- Available in RAL 7032 beige powder coating, ANSI 61 gray powder coating and natural stainless steel with a smooth, brushed finish.
- Desk covers available in same finishes.

Accessories

- Desk cover...*see page* ***266***
- Desk inner panel...*see page* ***268***

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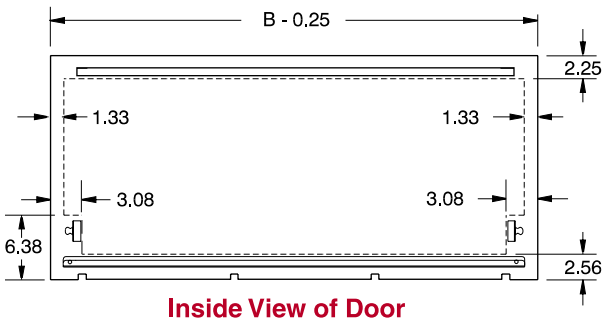
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Series 2000 Modular Console System - NEMA 12, 4, 4X

Desk Units

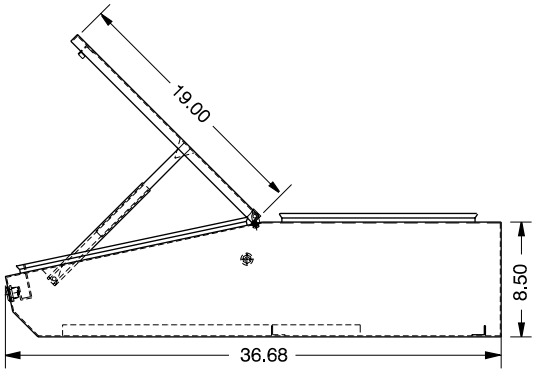
Standard Desk Unit



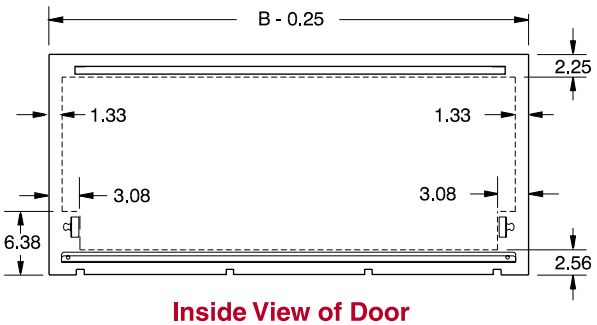
Inside View of Door

Clearance area for mounting hardware on desk unit sloping door



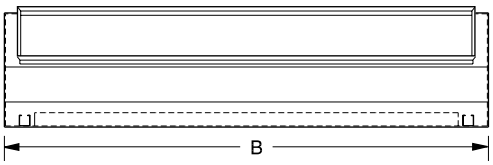


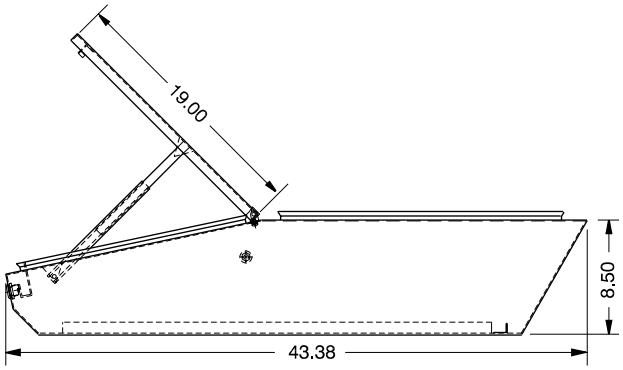
Deep Desk Unit



Inside View of Door

Clearance area for mounting hardware on desk unit sloping door





Standard Desk Unit

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B
2CRD82436	**2CPD82436**	**2CSD82436**	24
2CRD83636	**2CPD83636**	**2CSD83636**	36
2CRD84836	**2CPD84836**	**2CSD84836**	48
2CRD86036	**2CPD86036**	**2CSD86036**	60

Deep Desk Unit

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B
2CRD82443	**2CPD82443**	**2CSD82443**	24
2CRD83643	**2CPD83643**	**2CSD83643**	36
2CRD84843	**2CPD84843**	**2CSD84843**	48
2CRD86043	**2CPD86043**	**2CSD86043**	60

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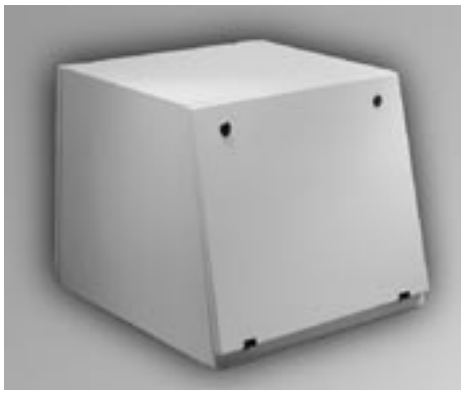
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Series 2000 Modular Console System - NEMA 12, 4, 4X

Turret Units



Standard Turret



Deep Turret

Electronic Industries Alliance

Application

- Ideal as a housing for video screens.
- Flexible design provides panel mount or rack mount capabilities for a variety of applications.
- Generally used in combination with other modular console components (ie. base, pedestal, and/or desk).
- Available in either Standard (supported by Base, Pedestal, or Standard Desk) or Deep (supported by Deep Desk only) format.
- Smooth lines and clean edges provide an attractive, contemporary appearance.

Standards

RAL 7032 Beige

- UL 508 Type 12
- CSA Type 12
- EIA RS-310-D
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

ANSI 61 Gray

- UL 508 Type 3R, 4, 12
- CSA Type 3R, 4, 12
- EIA RS-310-D
- **Complies with**
  - NEMA Type 3R, 4, 12
  - IEC 60529, IP66

Stainless Steel (Type 304)

- UL 508 Type 3R, 4, 4X and 12
- CSA Type 3R, 4, 4X and 12
- EIA RS-310-D
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12
  - IEC 60529, IP66

Construction

- Formed 14 gauge steel bodies with 14 gauge steel doors.
- Also offered with formed 14 gauge 304 stainless steel bodies with 14 gauge 304 stainless steel doors.
- Smooth, continuously welded seams without knockouts or holes.
- Body stiffeners are provided where required for increased strength and rigidity.
- Offered in 4 widths 24", 36", 48" and 60".
- Features solid sides and top, solid door on front (opens down) and back (opens up), and open bottom.
- Front door features sliding rod mechanism, which allows a 102° opening when in the lowered position.
- Rear door features manual, 3 position adjustable door stop which provides convenient support while door in open position.
- Formed lip on enclosure excludes flowing liquids and contaminants.
- Slotted quarter turn oil-tight latches secure the door, with optional tamper resistant and locking latches available.
- Stainless steel models utilize stainless steel hardware.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Features several internal stud locations for mounting of various accessories.
- A bonding screw is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Available in RAL 7032 beige powder coating, ANSI 61 gray powder coating and natural stainless steel with a smooth, brushed finish.
- 24" Front Window Door available in same finishes.

Accessories

- Air conditioners...*see page* ***389-405***
- Blowers...*see page* ***406***
- Filter fans...*see page* ***408-414***
- Fan trays...*see page* ***416***
- Heaters...*see page* ***418-420***
- Turret/Terminal Window Door...*see page* ***265***
- Series 2000 Modular Console Accessories...*see page* ***264-271***
- Rack Mount Accessories...*see page* ***272-274***

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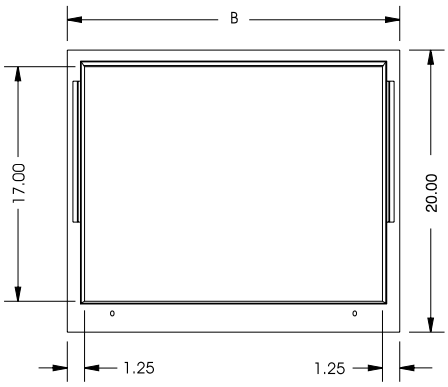
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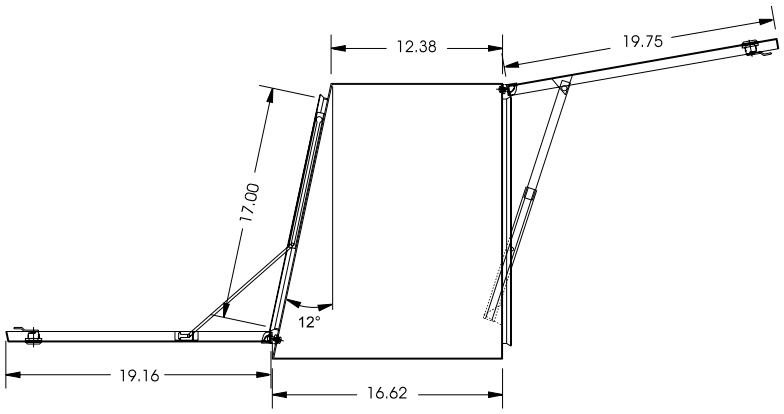
Series 2000 Modular Console System - NEMA 12, 4, 4X

Turret Units

Standard Turret

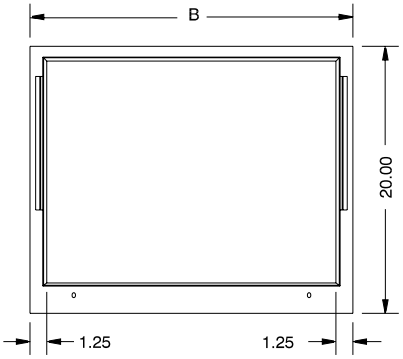


Front View

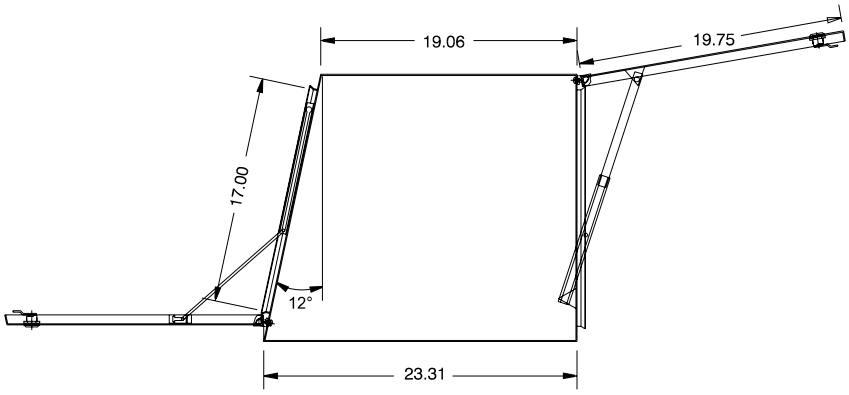


Side View

Deep Turret



Front View



Side View

Standard Turret

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B
2CRT202436	**2CPT202436**	**2CST202436**	24
2CRT203636	**2CPT203636**	**2CST203636**	36
2CRT204836	**2CPT204836**	**2CST204836**	48
2CRT206036	**2CPT206036**	**2CST206036**	60

Deep Turret

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B
2CRT202443	**2CPT202443**	**2CST202443**	24
2CRT203643	**2CPT203643**	**2CST203643**	36
2CRT204843	**2CPT204843**	**2CST204843**	48
2CRT206043	**2CPT206043**	**2CST206043**	60

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Series 2000 Modular Console System - NEMA 12, 4, 4X

Consolet



Electronic Industries Alliance

Note: Plinth and footrest shown in photo are optional.

Application

- Serves as an economical housing for operator interface applications.
- Provides an ideal sloped surface for mounting keyboards, switches, indicator lights, and/or dials.
- Provides panel mounting capabilities for a variety of applications.
- Generally used as a stand alone enclosure. Possible to put side by side with base on a single plinth (ie. 36" wide consolet with 24" base with terminal all together on a 60" plinth.
- Optional casters (require plinth) allow for a completely mobile, NEMA rated work station.
- Smooth lines and clean edges provide an attractive, contemporary appearance.

Standards

RAL 7032 Beige

- UL 508 Type 12
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

ANSI 61 Gray

- UL 508 Type 3R, 4, 12
- CSA Type 3R, 4, 12
- **Complies with**
  - NEMA Type 3R, 4, 12
  - IEC 60529, IP66

Stainless Steel (Type 304)

- UL 508 Type 3R, 4, 4X, 12
- CSA Type 3R, 4, 4X, 12
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12
  - IEC 60529, IP66

Construction

- Formed 14 gauge steel bodies with 14 gauge steel door and lid.
- Also offered with formed 14 gauge 304 stainless steel bodies with 14 gauge 304 stainless steel door and lid.
- Smooth, continuously welded seams without knockouts or holes.
- Body stiffeners are provided where required for increased strength and rigidity.
- Offered in 4 widths 24", 36", 48" and 60".
- Has solid sides and back, solid door on front, 3 point adjustable lid on sloped (20°) top, and closed bottom with removable access panel.
- 24" and 36" widths have single door on the front whereas 48" and 60" widths have two outside hinged doors on the front.
- Doors can be hinged from either side on 24" and 36" units.
- Door profiles provide increased strength and are pre-punched to provide mounting options.
- Formed lip on enclosure excludes flowing liquids and contaminants.
- Slotted quarter turn oil-tight latches secure the door and lid, with optional tamper resistant and locking latches available.
- Stainless steel models utilize stainless steel hardware.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Features internal stud locations for mounting optional inner panel.
- A bonding screw is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Available in RAL 7032 beige powder coating, ANSI 61 gray powder coating and natural stainless steel with a smooth, brushed finish.

Accessories

- Air conditioners...*see page* ***389-405***
- Blowers...*see page* ***406***
- Consolet Panel...*see page* ***267***
- Filter fans...*see page* ***408-414***
- Fan trays...*see page* ***416***
- Heaters...*see page* ***418-420***
- Series 2000 Modular Console Accessories...*see page* ***264-271***

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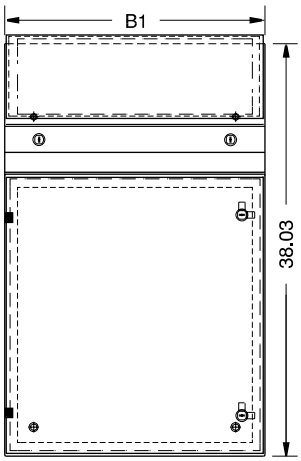
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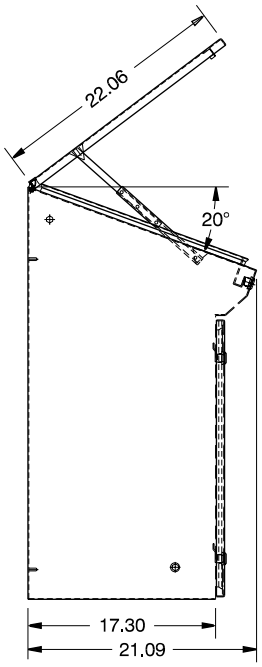
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Series 2000 Modular Console System - NEMA 12, 4, 4X

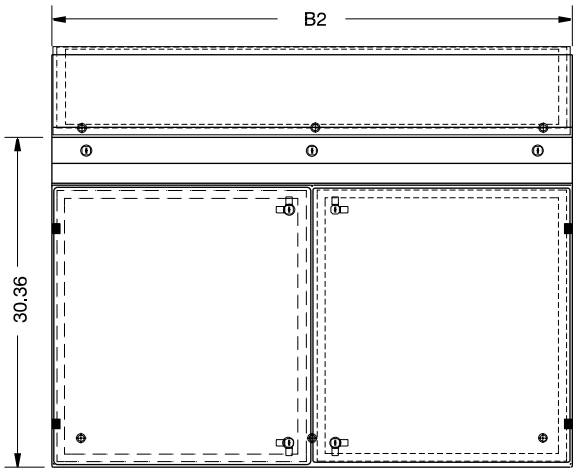
Consolet



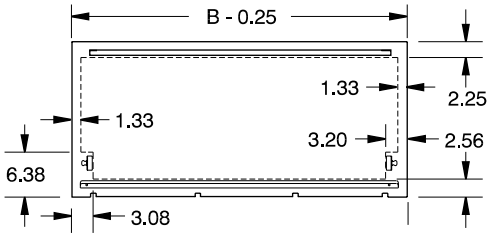
Front View - Single Door



Side View (Either)



Front View - Double Door



Enlarged Inside View of Door on Sloped Surface (Either)

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B1	B2
2CRC2024	**2CPC2024**	**2CSC2024**	24	n/a
2CRC2036	**2CPC2036**	**2CSC2036**	36	n/a
2CRC2048	**2CPC2048**	**2CSC2048**	n/a	48
2CRC2060	**2CPC2060**	**2CSC2060**	n/a	60

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Series 2000 Modular Console System - NEMA 12, 4, 4X

Terminal



Note: Pedestal, plinth and casters shown in photo are optional.



Note: Base and plinth shown in photo are optional.

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Application

- Ideal as a housing for a complete personal computer system including video screen, keyboard and PLC.
- Flexible design provides panel mount or rack mount capabilities for a variety of applications.
- Generally used in combination with other modular console components (ie. base or pedestal). Mounting on base provides extra room for PLC's and/or printer-paper stands.
- Optional casters (require plinth) allow for a completely mobile, NEMA rated work station.
- Smooth lines and clean edges provide an attractive, contemporary appearance.

Standards

RAL 7032 Beige

- UL 508 Type 12
- CSA Type 12
- EIA RS-310-D
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

ANSI 61 Gray

- UL 508 Type 3R, 4, 12
- CSA Type 3R, 4, 12
- EIA RS-310-D
- **Complies with**
  - NEMA Type 3R, 4, 12
  - IEC 60529, IP66

Stainless Steel (Type 304)

- UL 508 Type 3R, 4, 4X, 12
- CSA Type 3R, 4, 4X, 12
- EIA RS-310-D
- **Complies with**
  - NEMA Type 3R, 4, 4X, 12
  - IEC 60529, IP66

Construction

- Formed 14 gauge steel bodies with 14 gauge steel doors.
- Also offered with formed 14 gauge 304 stainless steel bodies with 14 gauge 304 stainless steel doors.
- Smooth, continuously welded seams.
- Body stiffeners are provided where required for increased strength and rigidity.
- Offered in 24" width only.
- Features solid sides and top, 2 solid doors on front (both open downlower, smaller door for keyboard shelf) and back (opens up), and open bottom.
- Lower drop down door provides access to optional slide-out keyboard drawer.
- Front doors feature sliding rod mechanism which allows a 102° opening when in the lowered position.
- Rear door features manual, 3 position adjustable door stop which provides convenient support while door in open position.
- Formed lip on enclosure excludes flowing liquids and contaminants.
- Slotted quarter turn oil-tight latches secure the door, with optional tamper resistant and locking latches available.
- Stainless steel models utilize stainless steel hardware.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Features several internal stud locations for mounting of various accessories.
- A bonding screw is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Available in RAL 7032 beige powder coating, ANSI 61 gray powder coating and natural stainless steel with a smooth, brushed finish.
- 24" Front Window Door available in same finishes.

Accessories

- Air conditioners...*see page* ***389-405***
- Blowers...*see page* ***406***
- Data Terminal Extension Ring...*see page* ***265***
- Filter fans...*see page* ***408-414***
- Fan trays...*see page* ***416***
- Heaters...*see page* ***418-420***
- Terminal Keyboard Shelf...*see page* ***268***
- Turret/Terminal Window Door...*see page* ***265***
- Series 2000 Modular Console Accessories...*see page* ***264-271***
- Rack Mount Accessories...*see page* ***272-274***

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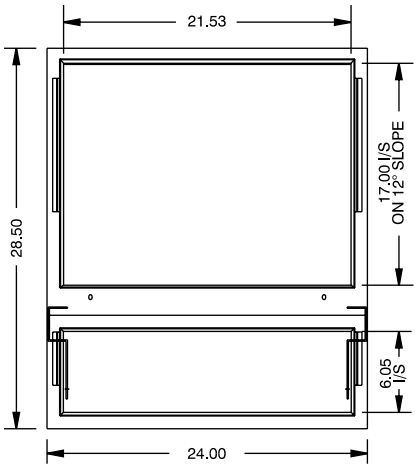
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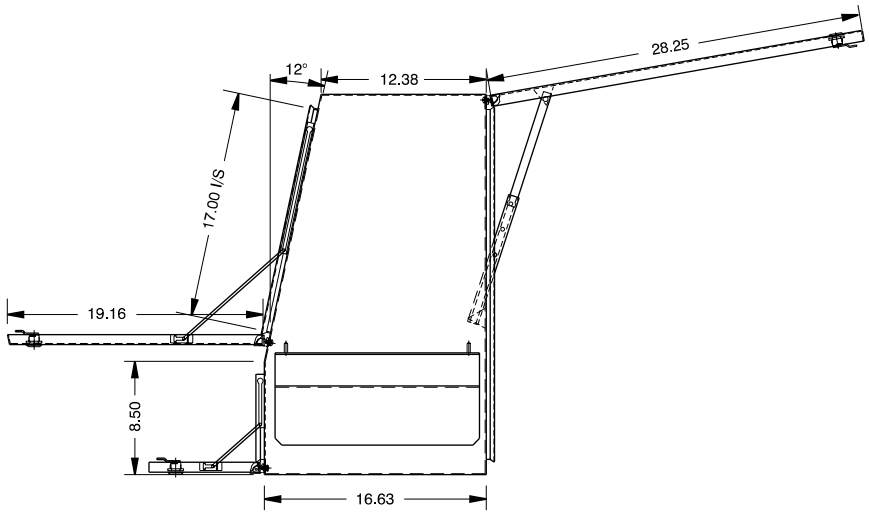
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Series 2000 Modular Console System - NEMA 12, 4, 4X

Terminal



Front View



Side View

Note:For added depth, see Data Terminal Extension Ring...*see page* ***265***

Part No.	Finish
2CRD24R	Type 12 RAL 7032 Beige
2CPD24R	Type 4, ANSI 61 Gray
2CSD24R	Type 4, 4X Stainless Steel

Terminal Keyboard shelf is optional...see page **268**

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Series 2000 Modular Console System - NEMA 12, 4, 4X

Master Selection Tables



Master Selection Table - Modular Console System Components

System Width	Single Access Base	Dual Access Base	Standard Desk	Deep Desk
Type 12 RAL 7032 Beige				
24"	**2CRB262418**	**2CRBX262418**	**2CRD82436**	**2CRD82443**
36"	**2CRB263618**	**2CRBX263618**	**2CRD83636**	**2CRD83643**
48"	**2CRB264818**	**2CRBX264818**	**2CRD84836**	**2CRD84843**
60"	**2CRB266018**	**2CRBX266018**	**2CRD86036**	**2CRD86043**
Type 4, ANSI 61 Gray				
24"	**2CPB262418**	**2CPBX262418**	**2CPD82436**	**2CPD82443**
36"	**2CPB263618**	**2CPBX263618**	**2CPD83636**	**2CPD83643**
48"	**2CPB264818**	**2CPBX264818**	**2CPD84836**	**2CPD84843**
60"	**2CPB266018**	**2CPBX266018**	**2CPD86036**	**2CPD86043**
Type 4, 4X Stainless Steel				
24"	**2CSB262418**	**2CSBX262418**	**2CSD82436**	**2CSD82443**
36"	**2CSB263618**	**2CSBX263618**	**2CSD83636**	**2CSD83643**
48"	**2CSB264818**	**2CSBX264818**	**2CSD84836**	**2CSD84843**
60"	2CSB266018	2CSBX266018	2CSD86036	**2CSD86043**



Master Selection Table - Data Terminal

System Width	Plinth 4"	Plinth 8"	Footrest	Pedestal	24" Window Door	Terminal Keyboard Shelf
Type 12 RAL 7032 Beige						
24"	**2CRP42418**	**2CRP82418**	**2CRF24**	**2CRS**	**2CRTW24**	**2CWDSR**
Type 4, ANSI 61 Gray						
24"	**2CPP42418**	**2CPP82418**	**2CPF24**	**2CPS**	**2CPTW24**	**2CWDSR**
Type 4, 4X Stainless Steel						
24"	**2CSP42418**	**2CSP82418**	**2CSF24**	**2CSS**	**2CSTW24**	**2CWDSR**



Master Selection Table - Consolet

System Width	Consolet	Plinth 4"	Plinth 8"	Footrest	Consolet Panel
Type 12 RAL 7032 Beige					
24"	**2CRC2024**	**2CRP42418**	**2CRP82418**	**2CRF24**	**2CWCP24**
36"	**2CRC2036**	**2CRP43618**	**2CRP83618**	**2CRF36**	**2CWCP36**
48"	**2CRC2048**	**2CRP44818**	**2CRP84818**	**2CRF48**	**2CWCP48**
60"	**2CRC2060**	**2CRP46018**	**2CRP86018**	**2CRF60**	**2CWCP60**
Type 4, ANSI 61 Gray					
24"	**2CPC2024**	**2CPP42418**	**2CPP82418**	**2CPF24**	**2CWCP24**
36"	**2CPC2036**	**2CPP43618**	**2CPP83618**	**2CPF36**	**2CWCP36**
48"	**2CPC2048**	**2CPP44818**	**2CPP84818**	**2CPF48**	**2CWCP48**
60"	**2CPC2060**	**2CPP46018**	**2CPP86018**	**2CPF60**	**2CWCP60**
Type 4, 4X Stainless Steel					
24"	**2CSC2024**	**2CSP42418**	**2CSP82418**	**2CSF24**	**2CWCP24**
36"	**2CSC2036**	**2CSP43618**	**2CSP83618**	**2CSF36**	**2CWCP36**
48"	**2CSC2048**	**2CSP44818**	**2CSP84818**	**2CSF48**	**2CWCP48**
60"	**2CSC2060**	**2CSP46018**	**2CSP86018**	**2CSF60**	**2CWCP60**

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Series 2000 Modular Console System - NEMA 12, 4, 4X

Master Selection Tables



Master Selection Table - Modular Console System Components

System Width	Standard Turret	Deep Turret	Plinth 4"	Plinth 8"	Footrest	Pedestal
Type 12 RAL 7032 Beige						
24"	**2CRT202436**	**2CRT202443**	**2CRP42418**	**2CRP82418**	**2CRF24**	2CRS
36"	**2CRT203636**	**2CRT203643**	**2CRP43618**	**2CRP83618**	**2CRF36**	—
48"	**2CRT204836**	**2CRT204843**	**2CRP44818**	**2CRP84818**	**2CRF48**	—
60"	**2CRT206036**	**2CRT206043**	**2CRP46018**	**2CRP86018**	**2CRF60**	—
Type 4, ANSI 61 Gray						
24"	**2CPT202436**	**2CPT202443**	**2CPP42418**	**2CPP82418**	**2CPF24**	2CPS
36"	**2CPT203636**	**2CPT203643**	**2CPP43618**	**2CPP83618**	**2CPF36**	—
48"	**2CPT204836**	**2CPT204843**	**2CPP44818**	**2CPP84818**	**2CPF48**	—
60"	**2CPT206036**	**2CPT206043**	**2CPP46018**	**2CPP86018**	**2CPF60**	—
Type 4, 4X Stainless Steel						
24"	**2CST202436**	**2CST202443**	**2CSP42418**	**2CSP82418**	**2CSF24**	2CSS
36"	**2CST203636**	**2CST203643**	**2CSP43618**	**2CSP83618**	**2CSF36**	—
48"	**2CST204836**	**2CST204843**	**2CSP44818**	**2CSP84818**	**2CSF48**	—
60"	**2CST206036**	**2CST206043**	**2CSP46018**	**2CSP86018**	**2CSF60**	—



Master Selection Table - Data Terminal

System Width	Data Terminal	Data Terminal Extension Ring	Single Access Base	Dual Access Base	Base Panel
Type 12 RAL 7032 Beige					
24"	**2CRD24R**	**2CRD24X**	**2CRB262418**	**2CRBX262418**	**2CWBP24**
Type 4, ANSI 61 Gray					
24"	**2CPD24R**	**2CPD24X**	**2CPB262418**	**2CPBX262418**	**2CWBP24**
Type 4, 4X Stainless Steel					
24"	**2CSD24R**	**2CSD24X**	**2CSB262418**	**2CSBX262418**	**2CWBP24**

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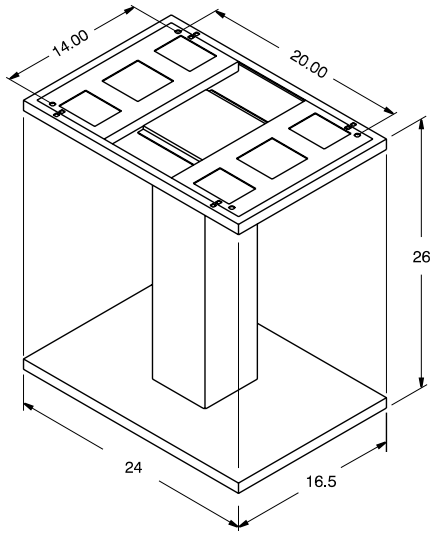
External Components



Pedestal

- Maintains NEMA rating of system.
- Formed 14 gauge steel.
- Also offered with formed 14 gauge stainless steel.
- Stiffeners added for solid stability.
- Open top and bottom provides an unobstructed wireway for pull through cabling.
- Can be mounted directly on floor or on a plinth.
- Available in beige, gray and stainless steel.

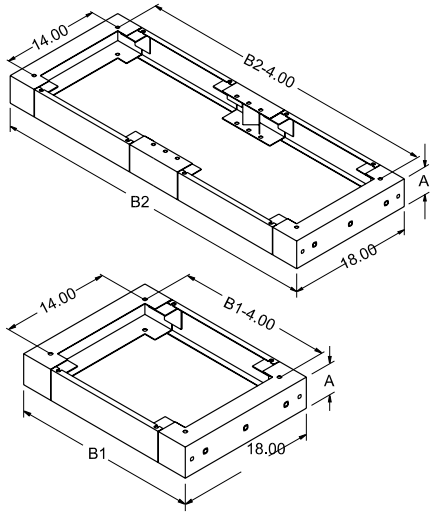
Part No.	Finish
2CRS	RAL 7032 Beige
2CPS	ANSI 61 Gray
2CSS	Stainless Steel





Modular Plinth

- Features removable front and rear panels for easy access to bottom for cabling or transport by forklift.
- For cable access, features 3 double knockouts on each end. (**NOTE:** not on stainless steel version)
- Available in 4" and 8" heights.
- Available in 24", 36", 48" and 60" widths.
- Maintains NEMA rating of system.
- Formed 14 gauge steel.
- Also offered with formed 14 gauge stainless steel.
- Available in beige, gray and stainless steel.



RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	A	B1	B2
2CRP42418	**2CPP42418**	**2CSP42418**	4	24	—
2CRP43618	**2CPP43618**	**2CSP43618**	4	36	—
2CRP44818	**2CPP44818**	**2CSP44818**	4	—	48
2CRP46018	**2CPP46018**	**2CSP46018**	4	—	60
2CRP82418	**2CPP82418**	**2CSP82418**	8	24	—
2CRP83618	**2CPP83618**	**2CSP83618**	8	36	—
2CRP84818	**2CPP84818**	**2CSP84818**	8	—	48
2CRP86018	**2CPP86018**	**2CSP86018**	8	—	60

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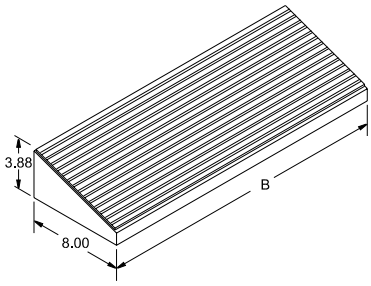
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Series 2000 Modular Console System - NEMA 12, 4, 4X

External Components





Footrest

- Generally used in combination with plinth.
- Provides a raised foot support to relieve back stress.
- Gives the installation a "finished" appearance.
- Available in 24", 36", 48" and 60" widths.
- Maintains NEMA rating of system.
- Formed 14 gauge steel.
- Also offered with formed 14 gauge stainless steel.
- Rubber tread for added traction on footrest surface.
- Available in beige, gray and natural stainless steel.

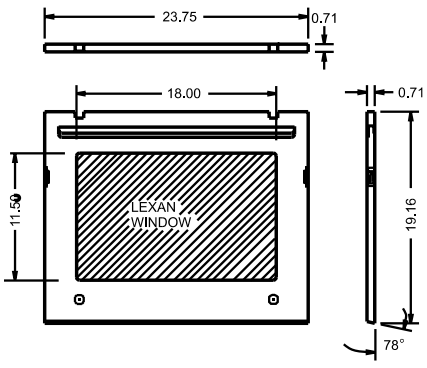
RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B
2CRF24	**2CPF24**	**2CSF24**	24
2CRF36	**2CPF36**	**2CSF36**	36
2CRF48	**2CPF48**	**2CSF48**	48
2CRF60	**2CPF60**	**2CSF60**	60



Data Terminal Extension Ring

- Formed 14 gauge steel.
- Adds 6" to Data Terminal Depth.
- Maintains NEMA rating.
- Utilizes door from Data Terminal.
- Fastens flush to back of Data Terminal.
- Available in beige, gray and natural stainless steel.

Part No.	Finish
2CRD24X	RAL 7032 Beige
2CPD24X	ANSI 61 Gray
2CSD24X	Stainless Steel



Turret/Terminal Window Door

- Maintains the NEMA rating of the enclosure.
- Constructed of 14 gauge steel and lexan window.
- Easy field installation.
- Fits Standard Turret, Deep Turret, and Data Terminal.
- Offered in 24" width only.
- Available in beige, gray and stainless steel.

Part No.	Finish
2CRTW24	RAL 7032 Beige
2CPTW24	ANSI 61 Gray
2CSTW24	Stainless Steel

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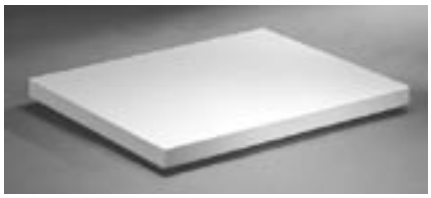
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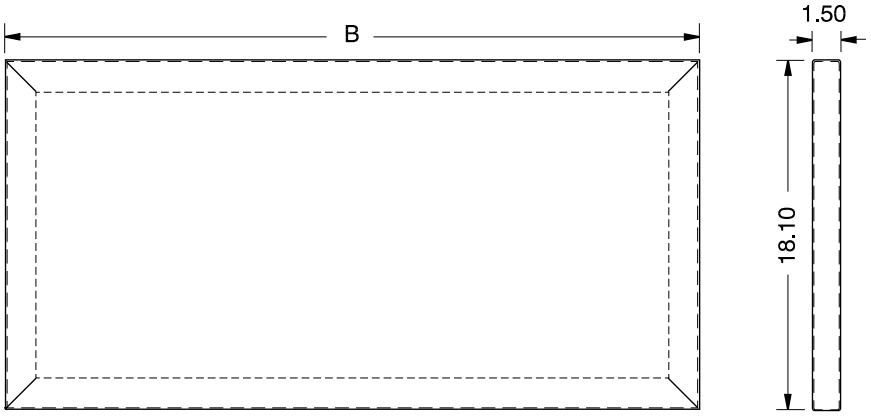
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External Components/Internal Accessories

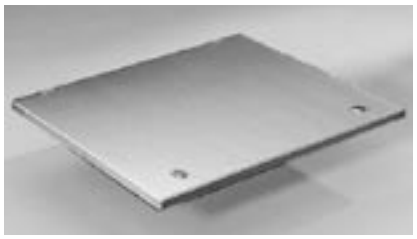


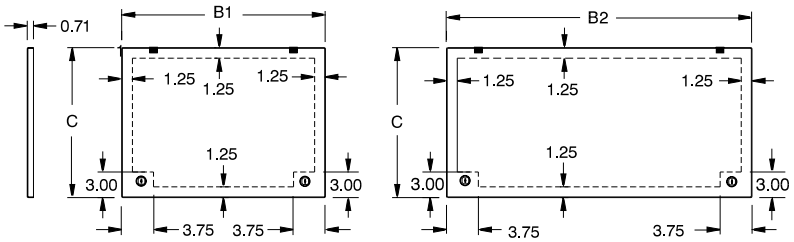


Base Cover

- Should be used to close top opening (of either single or dual access) base when no other components are mounted on the base's top.
- Constructed of 14 gauge steel.
- Available beige, gray and stainless steel.
- Can also be used on the underside of a Standard Desk Unit, Standard Turret and Data Terminal.

RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	B
2CRBC2436	**2CPBC2436**	**2CSBC2436**	24
2CRBC3636	**2CPBC3636**	**2CSBC3636**	36
2CRBC4836	**2CPBC4836**	**2CSBC4836**	48
2CRBC6036	**2CPBC6036**	**2CSBC6036**	60

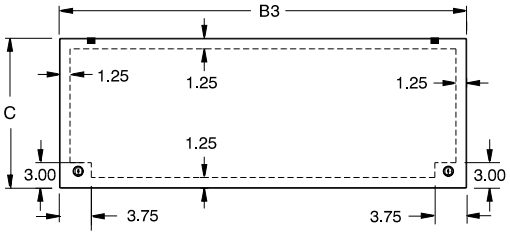




Desk Cover

- For use when no turret is used on top of desk.
- Provides a hinged, flat, sturdy desk surface.
- Available for either Standard or Deep desks.
- Constructed of 14 gauge steel.
- Features quarter turn latches for easy access into flat desk top.
- Available in beige, gray and stainless steel.





RAL 7032 Beige Part No.	ANSI 61Gray Part No.	Stainless Steel Part No.	B1	B2	B3	C
Standard Depth Desk Cover						
2CRDC2436	**2CPDC2436**	**2CSDC2436**	23.75	—	—	16.38
2CRDC3636	**2CPDC3636**	**2CSDC3636**	—	35.75	—	16.38
2CRDC4836	**2CPDC4836**	**2CSDC4836**	—	—	47.75	16.38
2CRDC6036	**2CPDC6036**	**2CSDC6036**	—	—	59.75	16.38
Deep Depth Desk Cover						
2CRDC2443	**2CPDC2443**	**2CSDC2443**	23.75	—	—	24.03
2CRDC3643	**2CPDC3643**	**2CSDC3643**	—	35.75	—	24.03
2CRDC4843	**2CPDC4843**	**2CSDC4843**	—	—	47.75	24.03
2CRDC6043	**2CPDC6043**	**2CSDC6043**	—	—	59.75	24.03

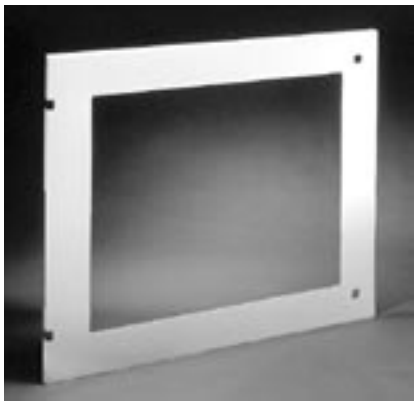
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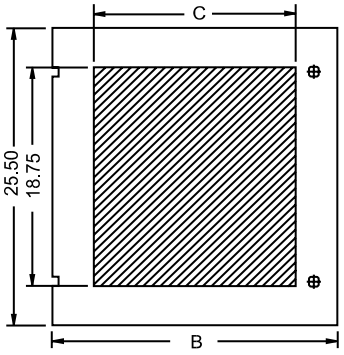
Series 2000 Modular Console System - NEMA 12, 4, 4X

External Components/Internal Accessories



Base Window Door

- Maintains the NEMA rating of the enclosure.
- Constructed of 14 gauge steel and lexan window.
- Easy field installation.
- Available for the 4 base widths.
- On 2 door units, a window can be installed on one side only.
- Available in beige, gray and stainless steel.



RAL 7032 Beige Part No.	ANSI 61 Gray Part No.	Stainless Steel Part No.	Fits Base Width	B	C
2CRBW24	**2CPBW24**	**2CSBW24**	24	23.75	16.75
2CRBW36	**2CPBW36**	**2CSBW36**	36	35.75	28.75
2CRBW48	**2CPBW48**	**2CSBW48**	48	23.75	16.75
2CRBW60	**2CPBW60**	**2CSBW60**	60	29.75	22.75





Base Panel

- 14 gauge steel panels are finished in white.
- Used in both single access and dual access bases.
- Available in 4 widths.
- Mounts into "C" Channel Mounting Kit (not included.)
- Hardware required for mounting into "C" channels is included.

Part No.	Fits Base Width	Height	Width	Depth
2CWBP24	24	22.5	20	0.75
2CWBP36	36	22.5	32	0.75
2CWBP48	48	22.5	44	0.75
2CWBP60	60	22.5	56	0.75





Consolet Panel

- 12 gauge steel panels.
- Available in 4 widths.
- Mounts onto panel mounting studs in consolet.
- Finished in white.



Part No.	Fits Consolet Width	Height	Width	Depth
2CWCP24	24	30.5	20.5	0.75
2CWCP36	36	30.5	32.5	0.75
2CWCP48	48	30.5	44.5	0.75
2CWCP60	60	30.5	56.5	0.75

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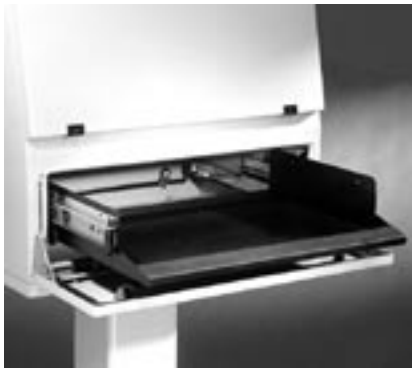
Internal Accessories

Desk Inner Panel

- 12 gauge steel panels.
- Used in both Standard and Deep desks.
- Available in 4 widths.
- Mounts horizontally onto panel mounting studs in bottom of desk.
- Finished in white.

Part No.	Fits Consolet Width	Height	Width	Depth
2CWDP24	24	0.5	22	16
2CWDP36	36	0.5	34	16
2CWDP48	48	0.5	46	16
2CWDP60	60	0.5	58	16





Terminal Keyboard Shelf

- Designed specifically for use in Data Terminal.
- Sloped wrist rest provides comfort for operator.
- Locks in place when extended.
- 20" width accommodates standard width keyboards.
- Finished in textured black.
- Slides included.

Part No.	Height	Width	Depth
2CWDSR	3.88	20	15.63



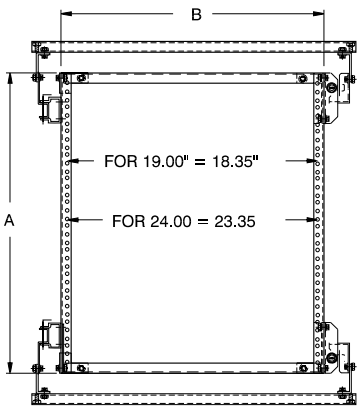


Swing Frame



- Available in 19" and 24" widths.
- Variable depth feature allows front to rear adjustment.
- Installs with either left or right hinging.
- Mounts onto Rail Support Kits (not included)...*see page **269***.
- Clip nuts required for mounting to punched rails...*see page **277***.
- Finished in textured black.

Part No.	Fits Console Unit	Fits Console Size	Panel Width	Panel Height	A	B
2CSFT19	Turrets/Terminal	24,36,48,60	19"	8U	15.75	19.28
2CSFT24	Turrets/Terminal	36,48,60	24"	8U	15.75	24.28
2CSFB19	Bases	24,36,48,60	19"	12U	22.09	19.28
2CSFB24	Bases	36,48,60	24"	12U	22.09	24.28



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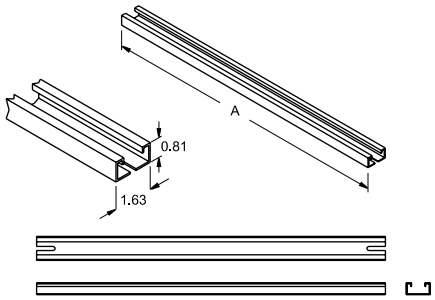
Internal Accessories



Hardware Included

"C" Channel Mounting Kit

- For use in Turrets, Data Terminals and Bases.
- Provide adjustable (side to side) mounting support for Base Panels and all Rail Support Kits.
- Available in 4 widths.
- Finished in textured black.



Part No.	Fits Console Width	A
2CMC24	24	23.5
2CMC36	36	33.5
2CMC48	48	47.5
2CMC60	60	59.5



Rail Support Kit

- Separate kits for Standard Turret/Data Terminal, Deep Turret and Bases.
- For use with Swing Frame, CRT Mounting Kit and Combination Rails.
- Mount into "C" channels (not included - see above).
- Finished in textured black.

Part No.	Fits Console Unit
2CTRSK36	Turret/Terminal
2CTRSK43	Deep Turret
2CBRSK	Base

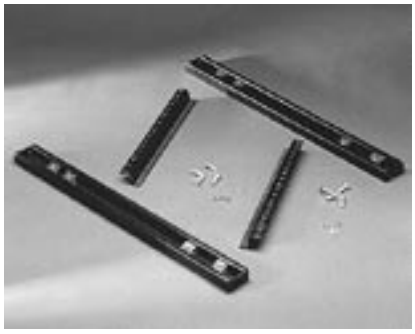


Combination Rails

- Provide standard 19"/24" mounting for electronic equipment or other console accessories.
- Features punched universal EIA spacing.
- Mounts onto Rail Support Kits (not included - see above).
- Clip nuts required for mounting to punched rails...*see page 277*.
- Finished in black.

Part No.	Units	Fits Console Unit
2CTRK	9	Turrets/Terminal
2CBRK	13	Base

EIA Electronic Industries Alliance



CRT Mounting Kit

- Adjustable width allows for mounting of most CRT models.
- For use in Turrets or Data Terminal.
- Mounts onto Rail Support Kits (not included - see above).
- Finished in textured black.

Part No.	2CRTK

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Internal Accessories

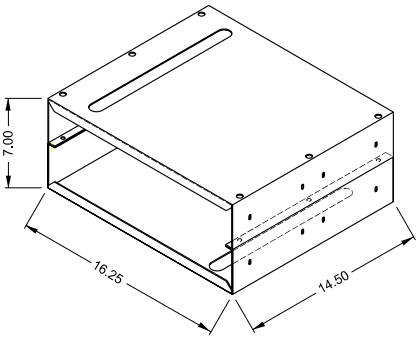


Hardware Included

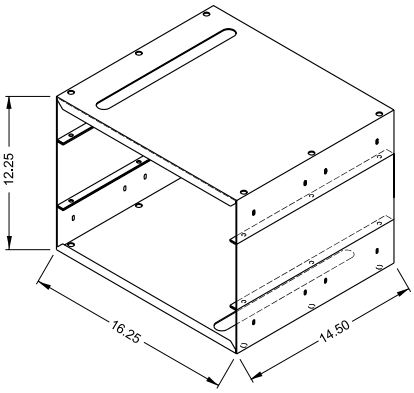
Printer and Paper Stand

- Provides convenient pullout access and support for printers in bases.
- Two versions available for high or low applications.
- Mounts onto Combination Rails (not included)...*see page* ***269***.
- Finished in textured black.
- Slides included.

Part No.	Description	Height
2CLPS	Low Printer Stand	7.00
2CHPS	High Printer Stand	12.25



Low Printer Stand



High Printer Stand



Gas Filled Door Support

- Provide "lift assist" and door support for rear Turret/Data Terminal doors and Desk lids.
- Replace standard manual door supports.
- Finished in black.
- Sold individually.
- Recommend 1 for 24"/36" and 2 for 48"/60".

Part No.	**2CDSTP**



DIN Rail Support Kit

- Provide adjustable mounting support for DIN rails (sold separately.)
- For use in Bases only.
- Mount into "C" channels (not included)...*see page* **263**.

Hardware Included

Part No.	**2CDMK**

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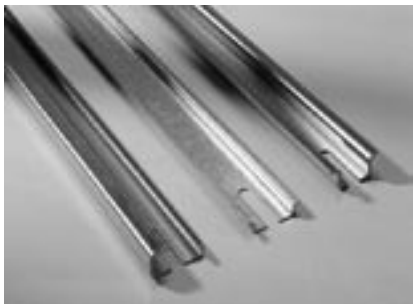
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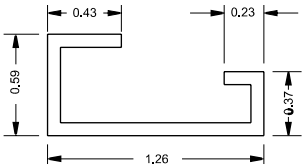
Series 2000 Modular Console System - NEMA 12, 4, 4X

Internal Accessories

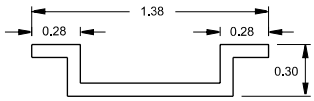


DIN Rails

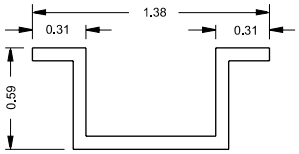
- Field installable.
- Includes a set of 3 plated rails.
- Available in 3 industry standard profiles - DIN 1, DIN 3, and CENELEC.
- DIN Rail Support Kit required...*see page 270*.
- Rails have a 0.28 x 1.25 oblong slot on each end.



Asymmetric DIN 1 Pro



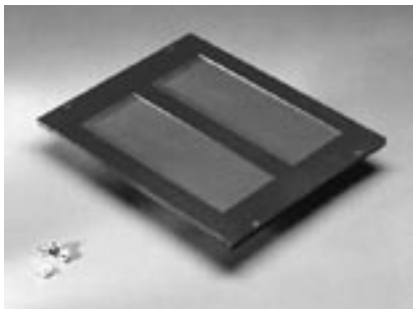
Symmetric DIN 3 Pro



CENELEC Pro

Asymmetric DIN1 Profile Part No.	Symmetric DIN 3 Profile Part No.	Cenelec Profile Part No.	Length
2D1K12	**2D2K12**	**2DCK12**	9.25
2D1K16	**2D2K16**	**2DCK16**	13.25
2D1K20	**2D2K20**	**2DCK20**	17.25
2D1K24	**2D2K24**	**2DCK24**	21.25
2D1K30	**2D2K30**	**2DCK30**	27.25

For sizing, refer to master selection table...*see page* 256.



Micro Cell Cable Entry Kit

- For use in Single or Dual Access Bases.
- Constructed of 14 gauge steel.
- Features 2 cutouts for cable access.
- Underside of cutouts covered with black foam rubber, which when punctured for cable access, still maintains a virtually sealed bottom.
- Finished in textured black.

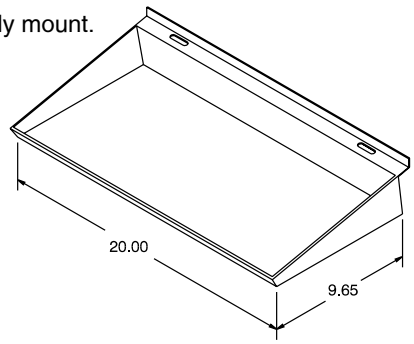
Part No.	**2CMBPK**



Mobile Keyboard Support

- Installs easily at any location along front of Desks or Consolet.
- Provides auxiliary or temporary keyboard support.
- 20" width accommodates standard width keyboards.
- Finished in textured black.
- Requires two drilled holes to permanently mount.

Part No.	**2CMKS24**



Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

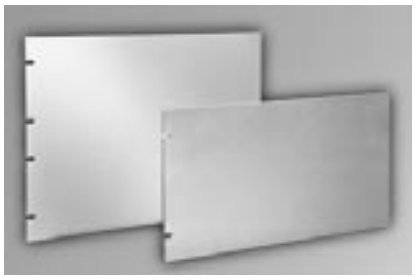
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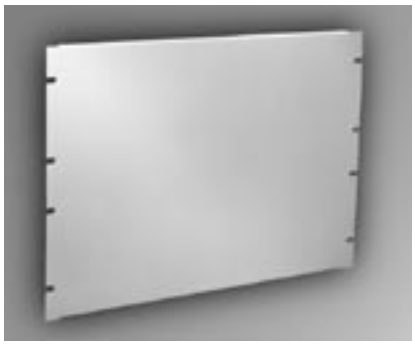
Series 2000 Modular Console System - NEMA 12, 4, 4X

Rack Mount Accessories



Flat Steel or Aluminum Panels

- Economical panels are made from high quality steel or aluminum.
- Mounting hardware not included, please order separately.
- Available in beige (CG2), black (BK2) or gray (GY2).
- Aluminum panels are also available unfinished (UNF).



Formed Steel Panel

- A 0.50" fold top and bottom adds strength without increasing the panel thickness.
- Mounting hardware not included, please order separately.
- Available in beige (CG2), black (BK2) or gray (GY2).

Electronic Industries Alliance

No. of Slots	Panel Height Inches	Units	Flat 14 Gauge Steel (0.075")	Flat 0 .125" Aluminum	Formed 16 Gauge Steel (0.060")
4	1.75	1	PBPS19001...[1]	PBPA19001...[2]	PBFS19001...[1]
	3.50	2	PBPS19003...	PBPA19003...	PBFS19003...
	5.25	3	PBPS19005...	PBPA19005...	PBFS19005...
	7.00	4	PBPS19007...	PBPA19007...	PBFS19007...
	8.75	5	PBPS19008...	PBPA19008...	PBFS19008...
8	10.50	6	PBPS19010...	PBPA19010...	PBFS19010...
	12.25	7	PBPS19012...	PBPA19012...	PBFS19012...
	14.00	8	PBPS19014...	PBPA19014...	PBFS19014...
	15.75	9	PBPS19015...	PBPA19015...	PBFS19015...
	17.50	10	PBPS19017...	PBPA19017...	PBFS19017...
	19.25	11	PBPS19019...	PBPA19019...	PBFS19019...
	21.00	12	PBPS19021...	PBPA19021...	PBFS19021...
	22.75	13	PBPS19022...	PBPA19022...	PBFS19022...
10	24.50	14	PBPS19024...	PBPA19024...	PBFS19024...
	26.25	15	PBPS19026...	PBPA19026...	PBFS19026...
12	28.00	16	PBPS19028...	PBPA19028...	PBFS19028...
	29.75	17	PBPS19029...	PBPA19029...	PBFS19029...
	31.50	18	PBPS19031...	PBPA19031...	PBFS19031...

[1] Specify color code. Beige (CG2), Black (BK2) or Gray (GY2). 1 unit = 1.75"

[2] Specify color code. Beige (CG2), Black (BK2) Gray (GY2) or Unfinished (UNF). When unfinished, panels are paper covered on one side.

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Series 2000 Modular Console System - NEMA 12, 4, 4X

Rack Mount Accessories



Panel Width Adaptors

- Used for adapting flat 19" or 23" panels for 24" rack mounting.
- Mounting hardware not included, please order separately.
- 19" sold in pairs, 23" sold individually (only 1 required).
- Available in beige or black.

Panel Height Inches	Panel Height Units	For 14 Ga. Steel (0.075") 19" Widths
1.75	1[2]	PBAS19001...[1]
3.50	2[2]	PBAS19003...
5.25	3[2]	PBAS19005...
7.00	4[2]	PBAS19007...
8.75	5[2]	PBAS19008...
10.50	6	PBAS19010...
12.25	7	PBAS19012...
14.00	8	PBAS19014...

[1]Specify color code. Beige (CG2) or Black (BK2).
[2] 23" to 24" adaptors are available in these heights only; substitute "23" for "19" in the part no.



Storage Drawer Kit

- Complete drawer kit with slides and lock.
- Available in 3 depths.
- Rear support brackets included for all depths.
- Available in beige or black.

Hardware Included

19" Drawer Kit Part Numbers 12" Deep Drawer	16" Deep Drawer	22" Deep Drawer	Panel Height Inches	Units
RDRW1900312...[1]	**RDRW1900316...**[1]	**RDRW1900322...**[1]	3.50	2
RDRW1900512...	**RDRW1900516...**	**RDRW1900522...**	5.25	3
RDRW1900712...	**RDRW1900716...**	**RDRW1900722...**	7.00	4
RDRW1900812...	**RDRW1900816...**	**RDRW1900822...**	8.75	5

[1] Specify 3 digit color code. Beige (CG1) or Black (BK1).
For 24" panel width versions, substitute "19" with "24" in the part number.

1 unit = 1.75"

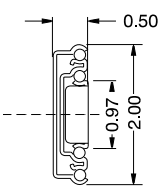


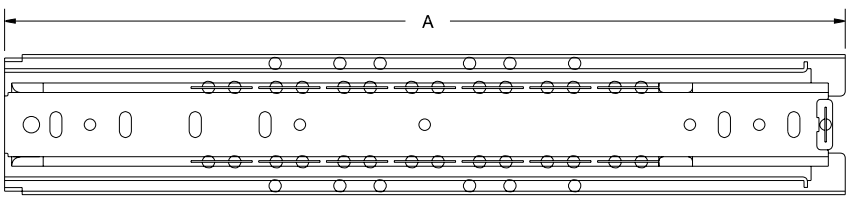
Equipment Slides

- Sold in **pairs**.
- Mounts on combination rail front flange (not included).

Part No.	(A) Length	Weight Capacity (Pair)
RSLIDE12	12	120 lb
RSLIDE16	16	130 lb
RSLIDE22	22	120 lb

Hardware Included





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Series 2000 Modular Console System - NEMA 12, 4, 4X

Rack Mount Accessories



Adjustable Support Angles

- Angles mount on accessory rails with either leg used as support depending on requirements.
- Slots allow up/down or front/back adjustments.
- Made of 14 gauge steel, with dimensions of 1.75" x 1.75".
- Finished in black (BK3).
- Mounting hardware not included, please order separately.

EIA Electronic Industries Alliance

Part No. (Pair)	Length (Inches)
RASA12BK3	9.98
RASA16BK3	14.95
RASA22BK3	20.95



Fixed Chassis/Shelf

- Can be used as a permanently mounted support shelf between accessory rails or as a pull-out chassis.
- Accepts optional slides for pull-out application...*see page **273***.
- Material is 18 gauge (shelf) and 14 gauge (brackets).
- Shelf is 16.8" wide x 0.5" high.
- Refer to table at right for depth.
- Finished in white.

Hardware Included

Part No.	Panel Width	Shelf Depth (In.)	Bracket Depth (In.)
RASC1912WH2	19	11.9	13.2
RASC1916WH2	19	15.9	14.9
RASC1922WH2	19	21.9	20.9
RASC2412WH2	24	11.9	13.2
RASC2416WH2	24	15.9	14.9
RASC2422WH2	24	21.9	20.9



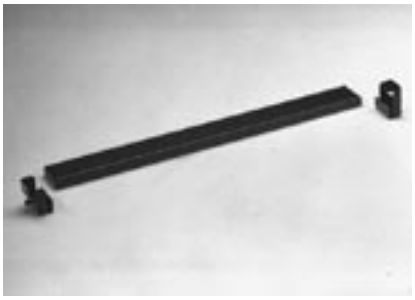
Equipment Shelf

- This closed utility shelf has 1.5 diameter cord access holes in each bottom corner. Fabricated from 18 gauge steel on top, bottom and sides.
- Inside dimensions are: 17.2" (wide) x 15.0" (deep).
- Height is 1" less than panel space.
- Finished in white.
- Mounting hardware not included, please order separately.

EIA Electronic Industries Alliance

Part No.	Panel Height Inches	Panel Height Units
RASE1900815WH2	8.75	5
RASE1901015WH2	10.50	6
RASE1901215WH2	12.25	7

1 unit = 1.75”



Adjustable Support Bar

- This 16 gauge steel support fastens between accessory rails for support across rear of equipment.
- Minor modification required for use with tapped rails.
- Finished in black.

Hardware Included

EIA Electronic Industries Alliance

Part No.	Length (Inches)
RASB19BK1	19
RASB24BK1	24

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Series 2000 Modular Console System - NEMA 12, 4, 4X

Rack Mount Accessories



Optional Locks & Latches

- Field installable.
- Interchangeable with standard latches.
- Maintains NEMA Type 4, 4X,12, 13 rating.

Part No.	Description
2WKL	Wing knob lock, zinc die/black
2SQI7	7mm square insert, black
2SQK7	7mm square key, fits 2SQI7
2TRI7	7mm triangle insert, black
2TRK7	7mm triangle key, fits 2TRI7
2SLI	Slotted insert, black
2QPL	Padlockable quarter turn latch, black



Series 2000 Console Casters

- Locking and non-locking versions.
- Mount directly to plinths.
- Sold in pairs to provide ability to mix locking and non-locking.
- Recommend 4 casters for 24"/36" and 6 casters for 48"/60".
- Weight capacity of 500 lbs. per pair.

Part No.	Type	No. of Casters
2CCSTL	Locking	2
2CCSTN	Non-Locking	2

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Series 2000 Modular Console System - NEMA 12, 4, 4X

General Accessories



Part No.	Description
1421	pkg. of 4 screws & 4 washers

Nickel plated 10-32 x 0.63" combo slot, Phillips oval countersunk head screws with steel cup washers.



Part No.	Description
1421B	pkg. of 4 screws & 4 washers

Nickel plated 10-32 x 0.5" thumb screws with nylon washers for captivating panels up to 0.09" thick. Head is 0.62" diameter x 0.37" high.



Part No.	Description
1421A	pkg. of 4 screws & 4 washers

Nickel plated 10-32 x 0.63" combo slot, Phillips oval countersunk head screws with plastic cup washers.



Part No.	Description
1421B2	pkg. of 2 screws, nuts & 4 washers

Polished stainless steel $^{1}/_{4}$-20 x 0.87" thumb screws with nylon washers and steel nuts for captivating panels up to 0.4" thick. Head is 0.68" diameter x 0.25" high.



Part No.	Description
1421A25B	pkg. of 25
1421A100B	pkg. of 100

Nickel plated 10-32 x 0.63" combo slot, Phillips oval countersunk head screws.



Part No.	Description
1421D	pkg. of 25 screws

Zinc plated 10-32 x 0.5" slotted pan head screws.



Part No.	Description
1421A25W	pkg. of 25
1421A100W	pkg. of 100

Black plastic cup washers for countersunk 10-32 screws.

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Series 2000 Modular Console System - NEMA 12, 4, 4X

General Accessories



Part No.	Description
1421E25W	pkg. of 25
1421E100W	pkg. of 100

Nickel plated metal cup washers for countersunk 10-32 screws.



Part No.	Description
1421N25	pkg. of 25
1421N100	pkg. of 100

10-32 clip nuts for all panel rails and most other mounting positions. Has the holding strength of a standard 10-32 nut.



Part No.	Description
1421F25	pkg. of 25

Stainless steel 10-32 x 1.25" Phillips oval countersunk head (the extra length is necessary for **raised** panels).



Part No.	Description
1421NP25	pkg. of 25
1421NP100	pkg. of 100

Zinc plated 10-32 clip nuts. 10-32 clip nuts for all panel rails and most other mounting positions. Has the holding strength of a standard 10-32 nut.



Part No.	Description
1463S	pkg. of 3

$^{3}/_{8}$-16 spring loaded nuts and $^{3}/_{8}$-16 x 0.75" bolts for "C" channels.



Part No.	Description
1421S	pkg. of 4

$^{1}/_{4}$-20 spring loaded nuts and $^{1}/_{4}$-20 x 0.62" round head bolts for "C" channels.



Part No.	Description
1421K25	pkg. of 25 screws & nuts
1421K100	pkg. of 100 screws & nuts

Zinc plated $^{1}/_{4}$-20 x 0.5" slotted round head screws with captive star washer nuts. Supplied with all panel rails and racks.

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1488 Series Consolets - NEMA 12, 13

Hinged Cover Consolets



Application

- Designed for use as electric, hydraulic or pneumatic control and instrument enclosures.
- Ideal for flat or surface mounting/ pedestal to provide the necessary 30° or 60° control slope.
- Provides protection from dirt, dust, oil and water.

Standards

- UL 508 Type 12, 13
- CSA Type 12, 13
- **Complies with**
  - NEMA Type 12, 13
  - IEC 60529, IP54

Construction

- Formed 14 gauge steel.
- Smooth, continuously welded seams.
- Construction provides either 30° or 60° slope on front cover depending on mounting position.
- Continuously hinged cover may be removed by pulling the hinge pin.
- Captive cover screws thread into sealed wells.
- Oil resistant gasket and adhesive.
- A bonding stud is provided on the door and a ground stud is provided on the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray powder coating.

Accessories

- Pedestals...*see page* ***449***

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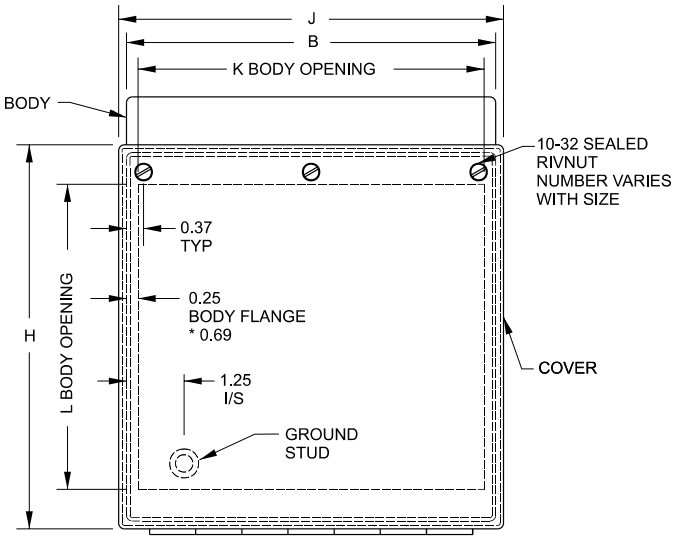
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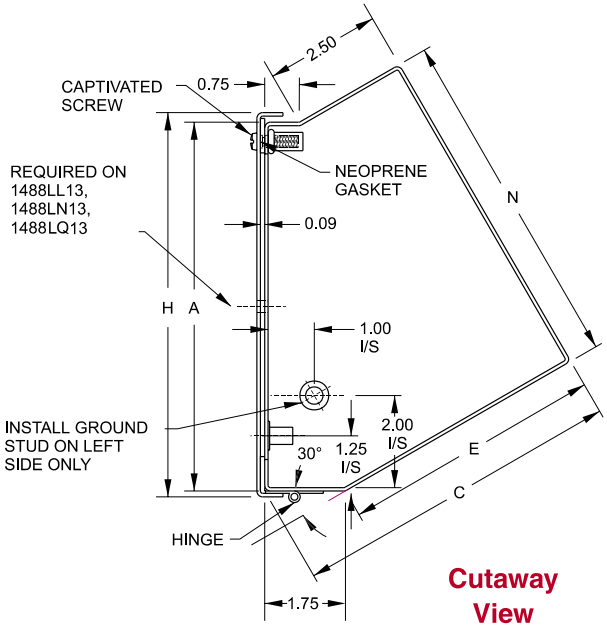
1488 Series Consolets - NEMA 12, 13

Hinged Cover Consolets

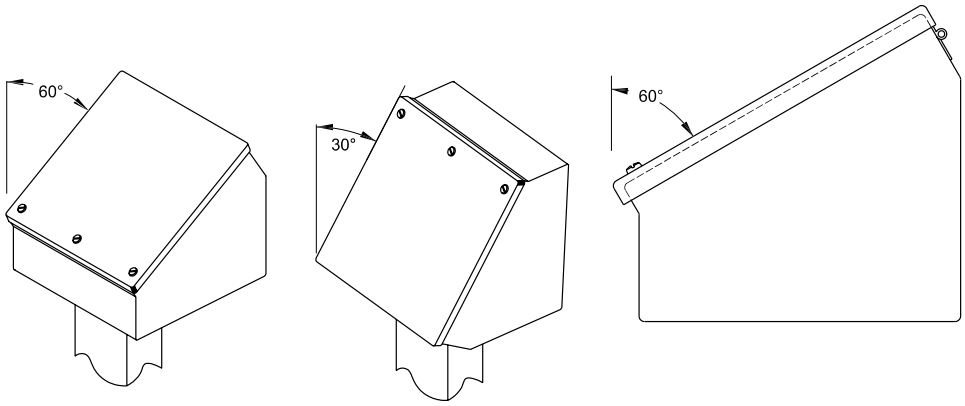


Front View

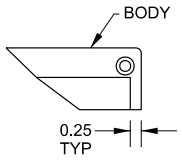
*Bracketed for 1488LL13, LN13 & LQ13



Cutaway View



Alternate Mounting Positions



Corner View with Cover Removed

Part No.	A	B	C	E	N	L	K	H	J	Ship Wt. lbs.
1488EE7	8	8	7.16	5.64	7.44	6.63	7.50	8.34	8.34	9
1488EH7	8	12	7.16	5.64	7.44	6.63	11.50	8.34	12.34	11
1488EJ7	8	16	7.16	5.64	7.44	6.63	15.50	8.34	16.34	13
1488EL7	8	20	7.16	5.64	7.44	6.63	19.50	8.34	20.34	15
1488HH9	12	12	9.16	7.64	10.90	10.63	11.50	12.34	12.34	16
1488HJ9	12	16	9.16	7.64	10.90	10.63	15.50	12.34	16.34	19
1488HL9	12	20	9.16	7.64	10.90	10.63	19.50	12.34	20.34	24
1488HN9	12	24	9.16	7.64	10.90	10.63	23.50	12.34	24.34	26
1488JJ11	16	16	11.16	9.64	14.37	14.63	15.50	16.34	16.34	26
1488JL11	16	20	11.16	9.64	14.37	14.63	19.50	16.34	20.34	30
1488JN11	16	24	11.16	9.64	14.37	14.63	23.50	16.34	24.34	39
1488JQ11	16	30	11.16	9.64	14.37	14.63	29.50	16.34	30.34	45
1488JS11	16	36	11.16	9.64	14.37	14.63	35.50	16.34	36.34	44
1488LL13	20	20	13.16	11.64	17.83	18.63	18.63	20.34	20.34	37
1488LN13	20	24	13.16	11.64	17.83	18.63	22.63	20.34	24.34	44
1488LQ13	20	30	13.16	11.64	17.83	18.63	28.63	20.34	30.34	47

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1471 Series Console Cabinet - NEMA 12

Sloped Front, Continuous Hinged Cover Console Cabinet



Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Heavy-duty construction provides protection from dirt, dust, oil and water.
- Sloping front control panel provides an ideal surface for mounting operator controls or instrumentation.
- Interior mounting provision on removable inner panels located on the rear and sides of the enclosure.

Standards

- UL 508 Type 12 as marked[1]
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54

Construction

- Formed 14 gauge steel.
- Smooth, continuously welded seams, without knockouts, cutouts or holes.
- Sloped front instrument panel is continuously hinged on the front (bottom) edge and secured with captive panel screws, threaded into sealed wells.
- Continuously hinged door and front instrument panel may be removed by pulling the hinge pin.
- Doors are secured with a three point latch and operated with a key locking automotive type handle.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Includes three removable inner panels formed from 12 gauge steel, mounted to the back and sides of the enclosure interior.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided for the inside of the door.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray powder coating on the outside and on the inside.
- Removable inner panels are finished in white powder coating.

Accessories

- Air conditioners...*see page* ***389-405***
- Casters...*see page* ***450***
- Door stop kit...*see page* ***447***
- Heaters...*see page* ***418-420***
- Lock kit...*see page* ***428***
- Louvered ventilating plates...*see page* ***450***
- Window kits...*see page* ***444***

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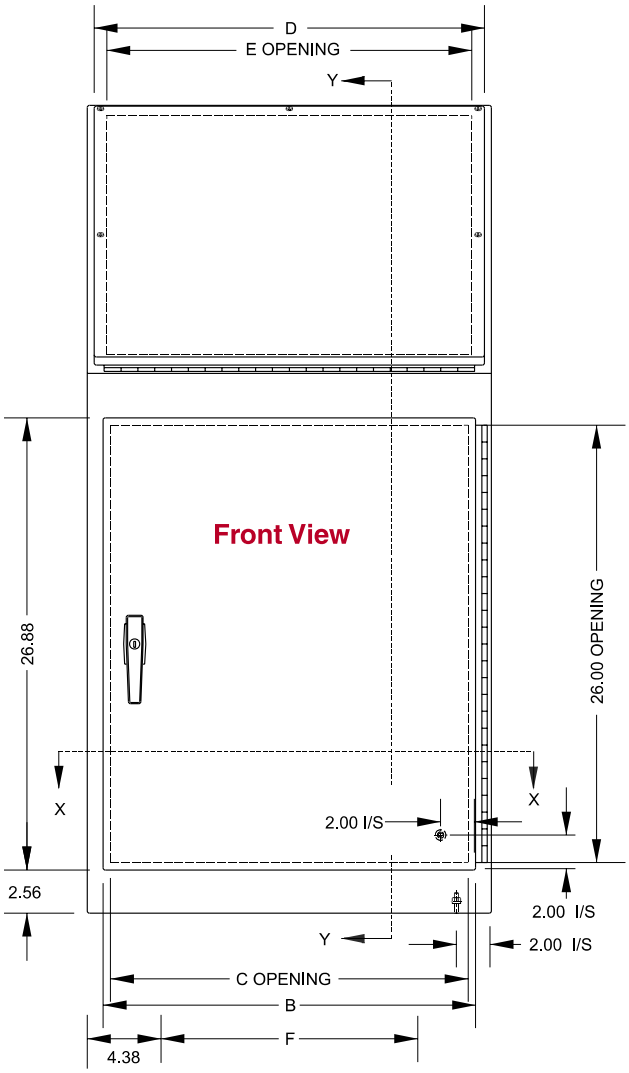
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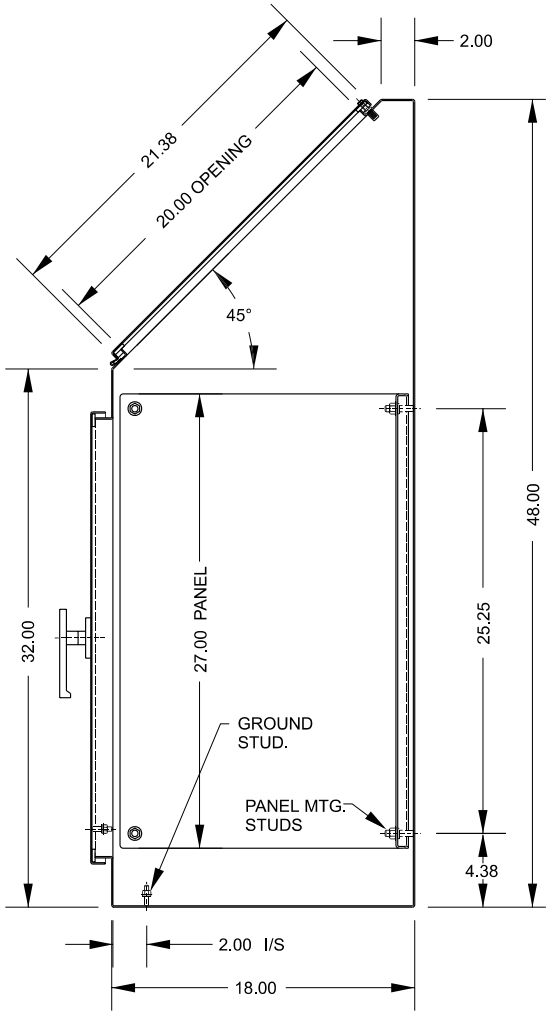
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1471 Series Console Cabinet - NEMA 12

Sloped Front, Continuous Hinged Cover Console Cabinet



Section X-X



Section Y-Y

Part No.	A	B	C	D	E	F	G	Ship Wt. lbs.
1471C24[1]	24	22.13	21.25	23.18	21.69	15.25	17	165
1471C36	36	34.13	33.25	35.18	33.68	27.25	29	210

[1] UL Listed

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1472 Series Console Cabinet - NEMA 12

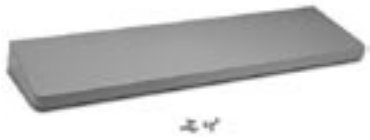
Sloped Front Modular Console Cabinet



Basic Console



Turret



Writing surface

Inner Panel Included

Application

- Designed to house electrical, electronic, hydraulic or pneumatic controls and instruments.
- Heavy-duty construction provides protection from dirt, dust, oil and water. Sloping front control and instrument panels provide an ideal surface for mounting operator controls or instrumentation.
- Interior mounting is provided for with a removable inner panel located on the rear of the basic console.

Standards

- UL 508 Type 12 as marked[1]
- CSA Type 12
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP65

Construction

Basic Console

- Formed 14 gauge steel.
- Smooth, continuously welded seams, without knockouts, cutouts or holes.
- Sloped front instrument panel is continuously hinged on the front (bottom) edge and secured with captive panel screws, threaded into sealed wells.
- Front instrument panel may be removed by pulling the hinge pin.
- Flush doors are secured with a three point latch and operated with a key locking automotive type handle.
- Two door models have overlapping front doors, with three point latch on right door.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Includes a removable inner panel formed from 12 gauge steel, mounted to the back of the enclosure interior.
- Collar studs are provided for mounting inner panels.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided.

Turret

- Formed and welded from 14 gauge steel.
- Sloping instrument panel and vertical rear access are completely removable.
- Oil resistant gaskets are permanently secured and mechanically retained.
- Captive panel screws fasten into sealed wells.

Writing surface

- Formed and welded from 14 gauge steel.
- Fastens to the front of the console with screws

Finish

- Console, turret and writing surface are phosphatized and finished in ANSI 61 gray powder coating on the outside and on the inside.
- Removable inner panels are finished in white powder coating.

Accessories

- Air conditioners...see page 389-405
- Casters...see page 450
- Heaters...see page 418-420
- Louvered ventilating plates...see page 450
- Window kits...see page 444

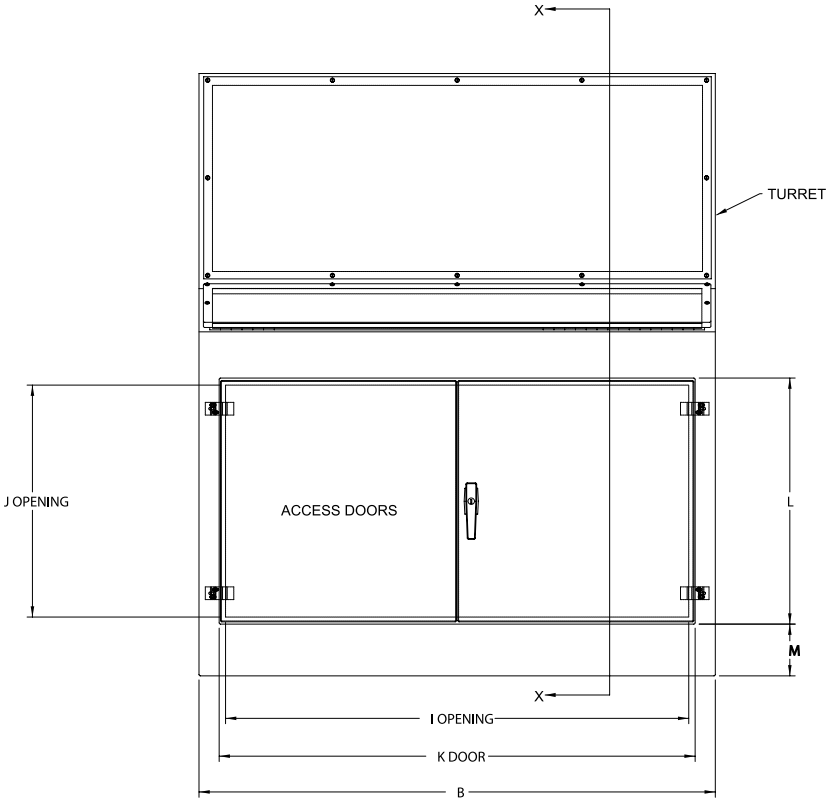
Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

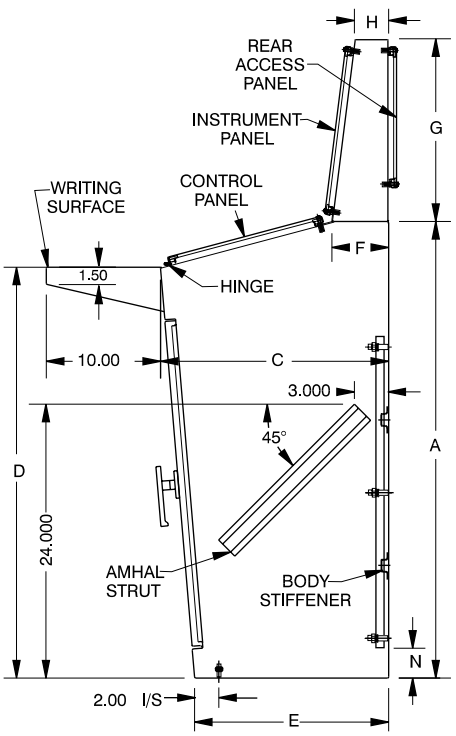
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1472 Series Console Cabinet - NEMA 12

Sloped Front Modular Console Cabinet



Front View



Section X-X

Note: Amhal struts and body stiffeners on models 1472-36 and 1472-48 only.

Basic Console Dimensions

Part No.	Overall Dimensions A	B	C	D	E	F	Clear Opening I	J	Door Opening K	L	M	N	Sub Panel Height	Width	Ship Wt. lbs.
1472-24[1]	40	24	20	36	17	5	19.06	27.68	20.25	28.94	2.56	2.62	18.75	27.25	140
1472-36	36	36	24	32	20	10	31.06	21.56	32.25	22.88	4.81	2.00	30.00	32.00	195
1472-48[2]	36	48	24	32	20	10	43.06	21.56	44.25	22.88	4.81	2.00	42.00	32.00	245

Panel Dimensions

Console Part No.	Console Control Panel Height	Width	Opening Size		Turret Instrument Panel Height	Width	Opening Size		Turret Rear Access Panel Height	Width	Opening Size	
1472-24	13.96	23.18	12.5	21.50	14.91	23.18	13.37	21.62	12.31	20.18	10.75	18.62
1472-36	13.00	35.18	11.5	33.50	19.18	35.18	17.62	33.62	16.31	32.18	14.75	30.62
1472-48	13.00	47.18	11.5	45.50	19.18	47.18	17.62	45.62	16.31	44.18	14.75	42.62

Turret Dimensions

Part No.	B	F	G	H	Ship Wt. lbs
1472-24T[1]	24	5	16	3	34
1472-36T	36	10	20	6	68
1472-48T	48	10	20	6	80

Writing Surface Dimensions

Part No.	Width	Depth	Height	Ship Wt. lbs.
1472-24W	24	10	4	9
1472-36W	36	10	4	14
1472-48W	48	10	4	20

[1] UL Listed [2] 2 Door Version

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Eclipse Command System - NEMA 12

Command Enclosure



Panel Sold Separately

Note: Shown with optional red handle

Application

- Designed to enclose electronic controls, instruments and components in indoor environments where dirt, dust, oil and water may be present.
- Ideal for use with suspension systems.
- Multiple mounting provisions and full front mounting space provide for ideal operator interface.
- Smooth flush surfaces and attractive finishes compliment high tech equipment.

Standards

- UL 508 type 12
- CSA type 12
- **Complies with**
  - NEMA Type 12 and 13
  - IEC 60529 IP54

Construction

- Formed from 16 gauge steel.
- Smooth, continuously welded seams ground smooth.
- Door stiffeners are designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Reversible rear door is secured with slotted quarter turn fasteners.
- Door frames have zinc die-cast corners with extrusion pressed aluminum profiles.
- Door front panels are 3mm aluminum.
- Oil resistant gaskets are permanently secured.
- Bonding stud provided on door and grounding stud installed in enclosure.
- Quarter turn latches formed from mild steel.
- Formed steel hinge with stainless steel hinge pins.
- Fastening is recommended with optional Tara Plus or 50/80 suspension systems *...see page* ***286-297***
- Optional red handle easily mounts horizontally to bottom of enclosure front frame. Order separately *...see page* ***285***
- Heavy duty re-inforcing plate included.

Finish

- Finished in RAL 7040 gray powder coating.
- Door panel is natural aluminum.

Accessories

- Tara Plus suspension system*...see page* ***286-291***
- 50 mm heavy duty suspension system*...see page* ***286-297***
- 80 mm heavy duty suspension system*...see page* ***286-297***
- Inner panels*...see page* ***285***

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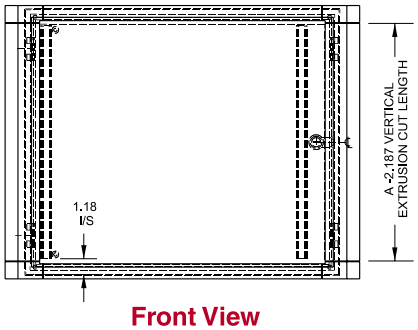
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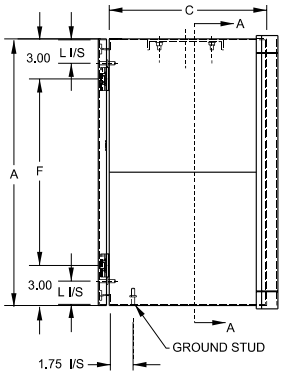
Data Subject to change without notice

Eclipse Command System - NEMA 12

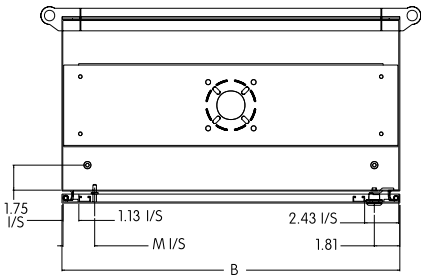
Command Enclosure



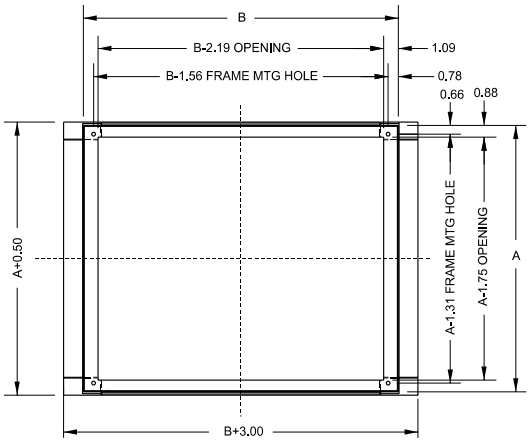
Front View



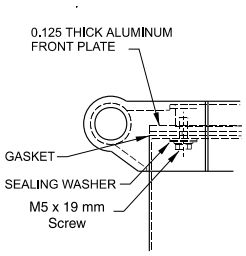
Side View - Hinge Side



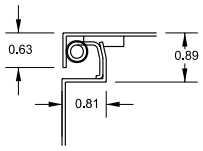
End View Section



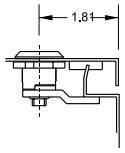
Section A-A



Corner Detail
Typ. 4 Places



Cross Section of 16 Gauge Body and Door

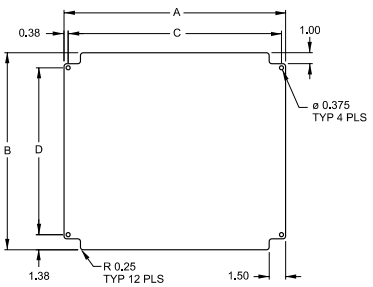


Lock Section

Part No.	Overall Dimensions A	B	C	F	L	M	Optional Handle Part No.	Optional Panel Part No.	Ship Wt. lbs.
ECP12126	12	12	6	6.0	1.50	2.25	ECPH12	ECPP1212	17
ECP12168	12	16	8	6.0	1.50	2.25	ECPH16	ECPP1216	21
ECP161610	16	16	10	10.0	1.50	2.25	ECPH16	ECPP1616	29
ECP162010	16	20	10	10.0	1.50	2.25	ECPH20	ECPP1620	32
ECP20246	20	24	6	14.0	1.50	2.25	ECPH24	ECPP2024	34
ECP202412	20	24	12	14.0	1.50	2.25	ECPH24	ECPP2024	43

Optional Inner Panel

- Panel mounts on the rear door of command enclosures.
- Unfinished aluminum is 0.08" thick.



Part No.	A	B	C	D
ECPP1212	8.25	10.00	7.50	7.25
ECPP1216	12.25	10.00	11.50	7.25
ECPP1616	12.25	14.00	11.50	11.25
ECPP1620	16.25	14.00	15.50	11.25
ECPP2024	20.25	18.00	19.50	15.25

Optional Handle

- Easily mounts horizontally to bottom of enclosure front frame.
- Finished in red.



Part No.	Fits Enclosure
ECPH12	ECP12126
ECPH16	ECP12168, ECP161610
ECPH20	ECP1620
ECPH24	ECP202412, ECP20246

Technical references and DXF downloads available at www.hammfg.com

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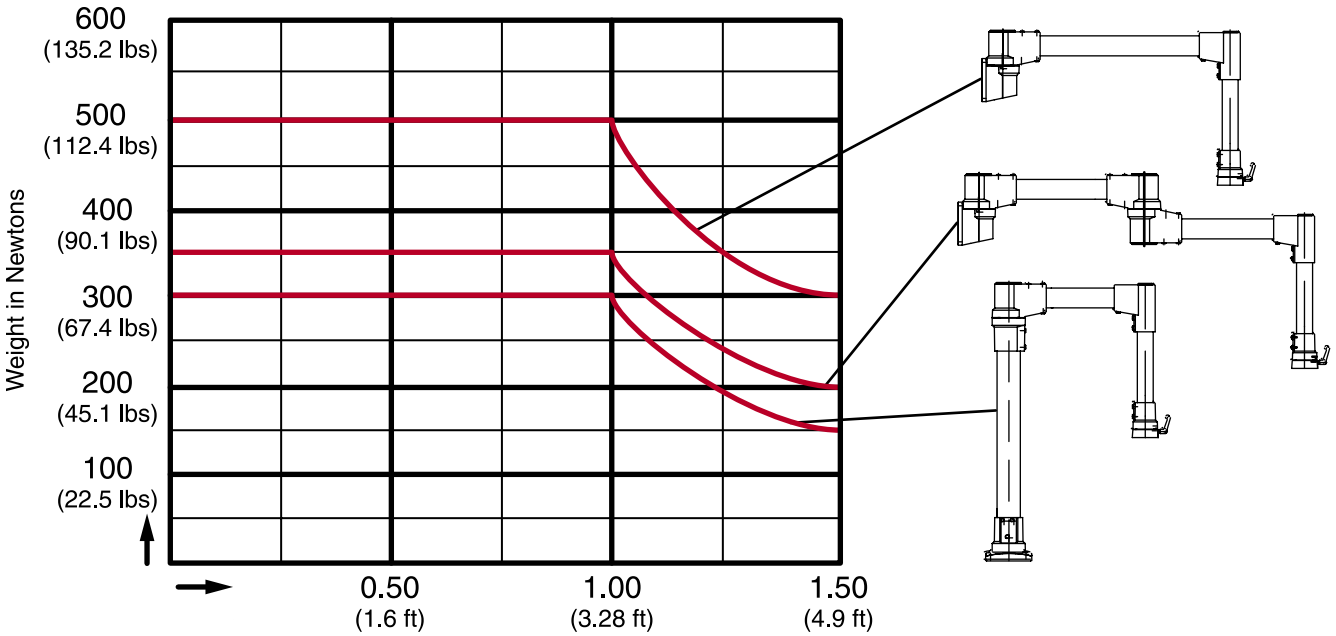
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Suspension Systems - NEMA 12, 13

Tara Plus Suspension System



Measurement Conversions

1 kg = 9.81 N **1 lb = 4.44 N**

e.g. 500 Newtons = 51 kg = 112.4 lbs
300 Newtons = 30.6 kg = 67.4 lbs
100 Newtons = 10.2 kg = 22.5 lbs

1 foot = 0.305 m

Application

- Taraplus enclosure suspension systems are designed for light and medium loads.
- The strength of tube and cast fittings provide a highly flexible robust system.

Construction

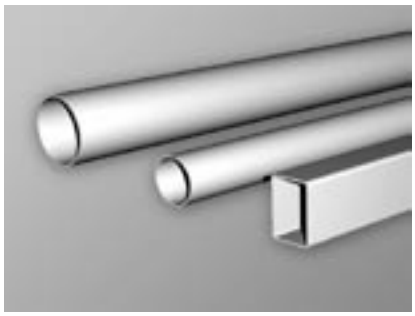
- Enclosure coupling and elbow coupling fittings are die-cast from G AL SI 12 aluminum.
- Suspension tubing is steel.

Finish

- Fittings are finished in RAL 7040 window gray.
- Suspension tubing is RAL 7035 light gray.

Standards

- **Complies with**
  - IEC 60529 IP54



Suspension Tube

Part No.	Outside mm	Inside mm	Tolerance	Length Metres	Length Feet	Ship Wt. lbs
Round Tubes						
R144-301-000	48	40	±0.25	1	3.28	10
R144-321-000	70	62	±0.25	1	3.28	25
R144-321-500	70	62	±0.25	1.5	4.92	38
Rectangular Tubes						
R144-311-000	60 x 40	54 x 34	±0.50	1	3.28	13
R144-311-500	60 x 40	54 x 34	±0.50	1.5	4.92	26

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Suspension Systems - NEMA 12, 13

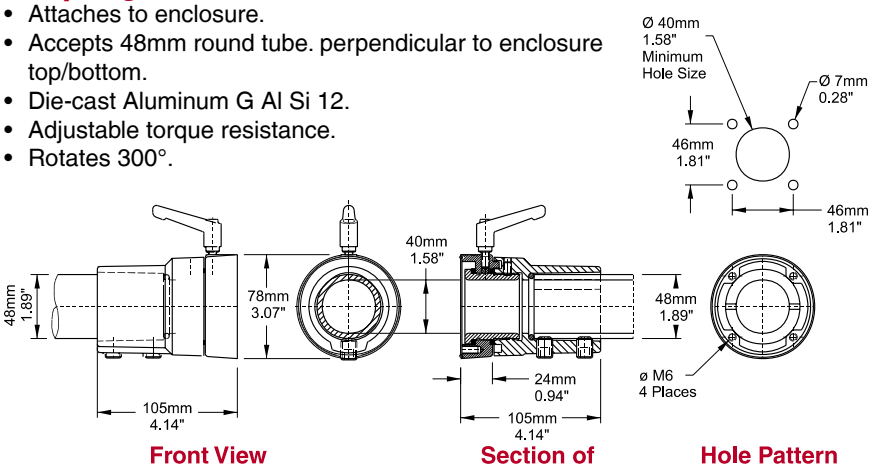
Tara Plus Suspension System



Part No. **R149-025-000**

Coupling

- Attaches to enclosure.
- Accepts 48mm round tube. perpendicular to enclosure top/bottom.
- Die-cast Aluminum G Al Si 12.
- Adjustable torque resistance.
- Rotates 300°.



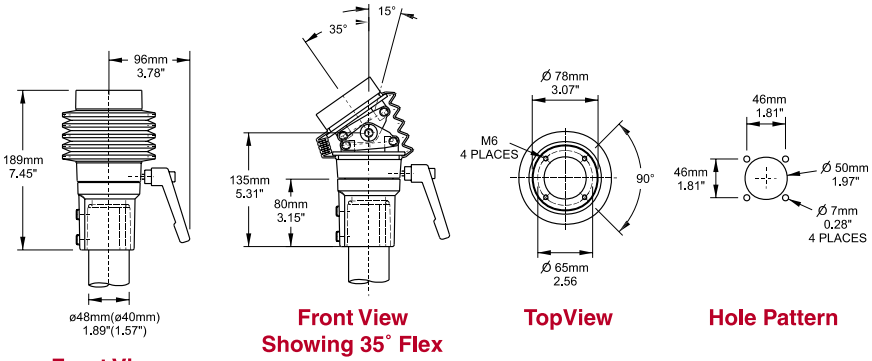
Front View | Section of Coupling | Hole Pattern



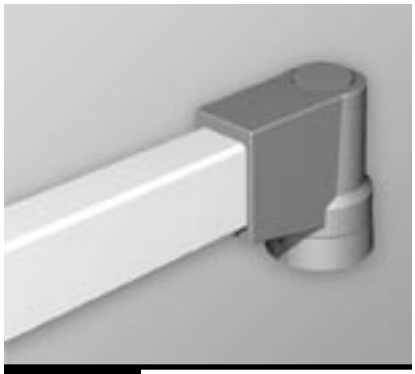
Part No. **R149-025-001**

Tilt Coupling

- Attaches to enclosure.
- Accepts 48mm round tube perpendicular to enclosure top/bottom.
- Die-cast Aluminum G Al Si 12.
- Rotates 300°.
- Features an adjustable tilt mechanism up to 35°.



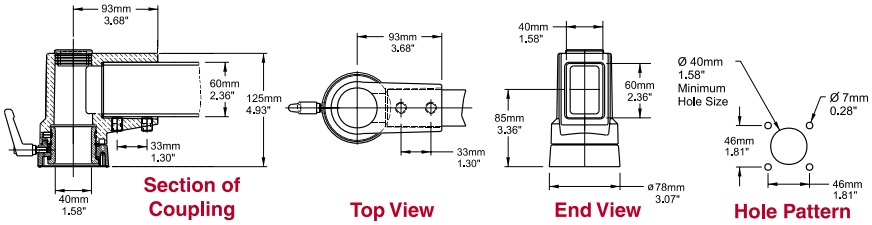
Front View | Front View Showing 35° Flex | TopView | Hole Pattern



Part No. **R149-035-000**

Elbow Coupling

- Attaches to enclosure.
- Accepts 60x40mm rectangular tube parallel to enclosure top/bottom.
- Die-cast Aluminum G Al Si 12.
- Adjustable torque resistance.
- Rotates 300°.
- Accessible from the top.



Section of Coupling | Top View | End View | Hole Pattern

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

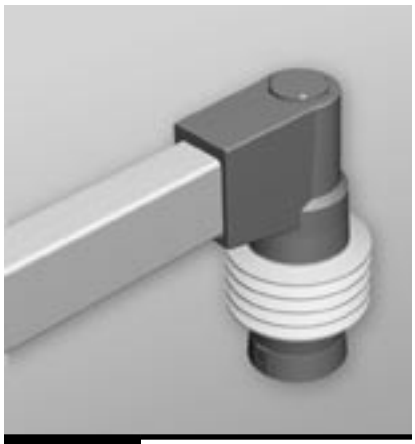
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Suspension Systems - NEMA 12, 13

Tara Plus Suspension System

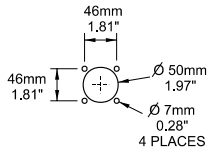


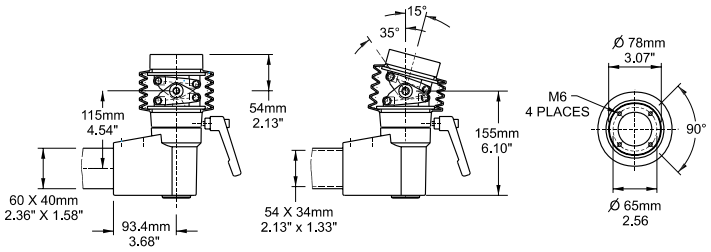
Part No. **R149-035-001**

Tilt Elbow Coupling

- Attaches to enclosure.
- Accepts 60x40mm rectangular tube parallel to enclosure top/bottom.
- Die-cast Aluminum G Al Si 12.
- Rotates 300°.
- Features an adjustable tilt. mechanism up to 35°.

Hole Pattern





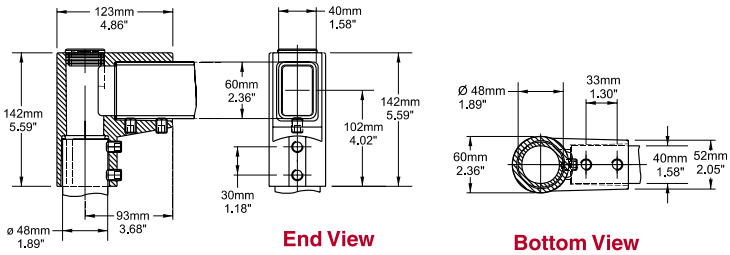
Front View | **Front View Showing 15° Flex** | **TopView**



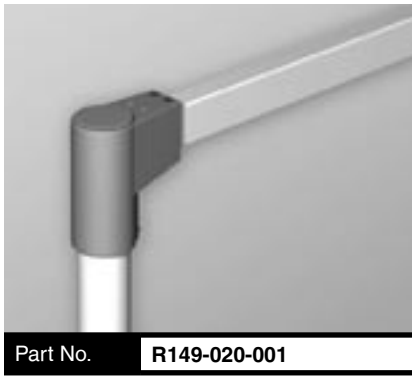
Part No. **R149-020-000**

Fixed Elbow 48

- For use with 48mm round tube and 60x40mm rectangular tube.
- Vertical 48mm tube connection for use with Couplings only (not Base 48).
- Die-cast Aluminum G Al Si 12.
- Large cover opening for easier cable pull through.
- No rotation.
- Accessible from the top.



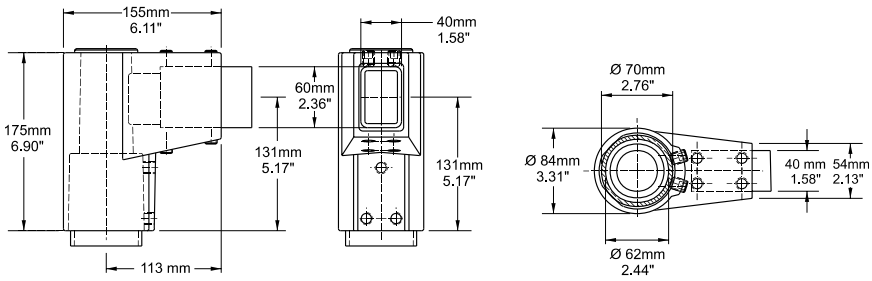
Section of Elbow | **End View** | **Bottom View**



Part No. **R149-020-001**

Fixed Elbow 70

- For use with 70mm round tube and 60x40mm rectangular tube.
- Die-cast Aluminum G Al Si 12.
- No rotation.
- Accessible from the top.



Front View of Elbow | **End View** | **Bottom View**

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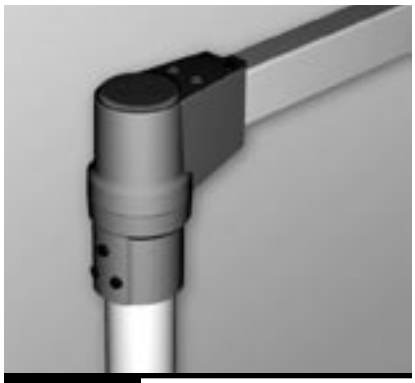
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Suspension Systems - NEMA 12, 13

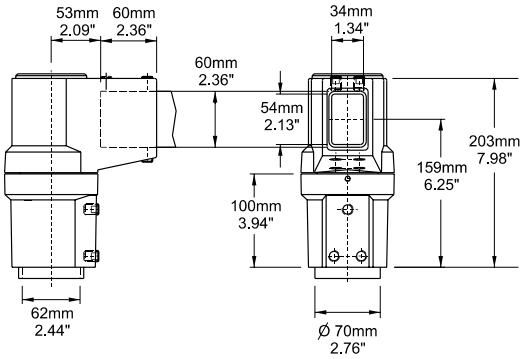
Tara Plus Suspension System



Part No. **R149-040-000**

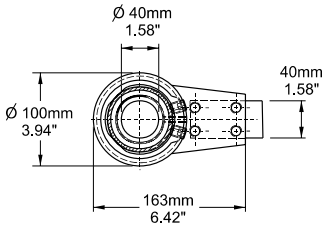
Rotating Elbow

- For use with 70mm round tube and 60x40mm rectangular tube.
- Die-cast Aluminum G Al Si 12.
- Rotates 300°.
- Accessible from the top.



Front View

End View



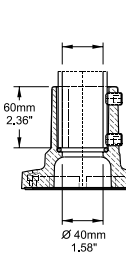
Top View



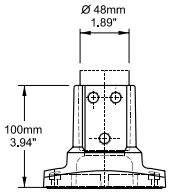
Part No. **R149-030-000**

Base 48

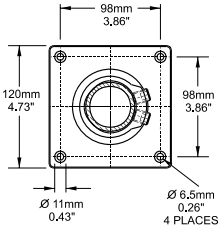
- For use with 48mm round tube.
- Not for use with any horizontal configurations.
- Compatible with tube up or tube down configurations.
- Die-cast Aluminum G Al Si 12.
- No rotation.



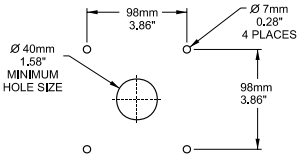
Front Section of Base



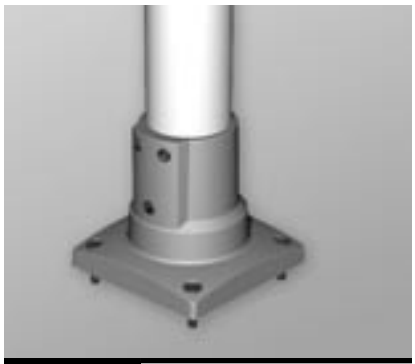
End View



Top View



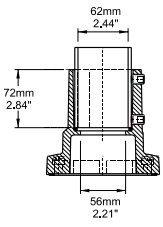
Hole Pattern



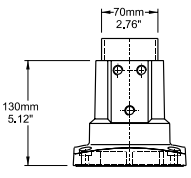
Part No. **R149-030-001**

Base 70

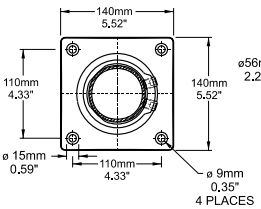
- For use with 70 mm tube.
- Compatible with all vertical and horizontal configurations.
- Compatible with tube up or tube down configurations.
- Die-cast Aluminum G Al Si 12.
- No rotation.



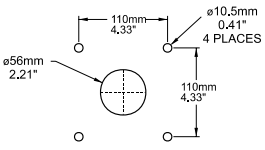
Front Section of Base



End View



Top View



Hole Pattern

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Suspension Systems - NEMA 12, 13

Tara Plus Suspension System

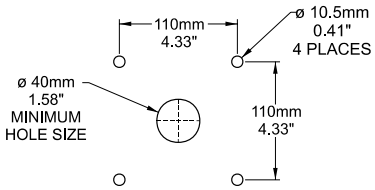


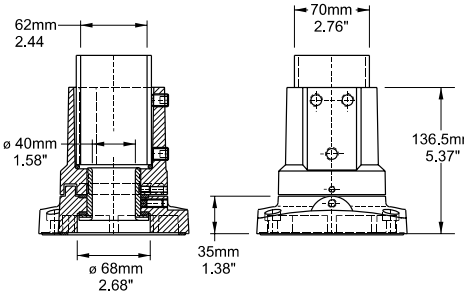
Part No. **R149-005-001**

Rotating Base 70

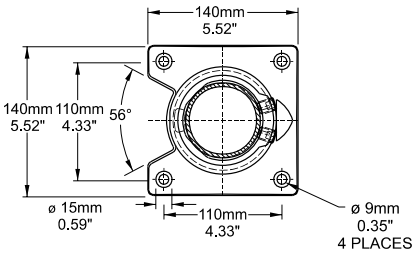
- For use with 70 mm tube.
- Compatible with all vertical and horizontal configurations.
- Compatible with tube up or tube down configurations.
- Die-cast Aluminum G Al Si 12.
- Rotates 300°.
- Integrated movement stop.
- Service free bearings.

Hole Pattern

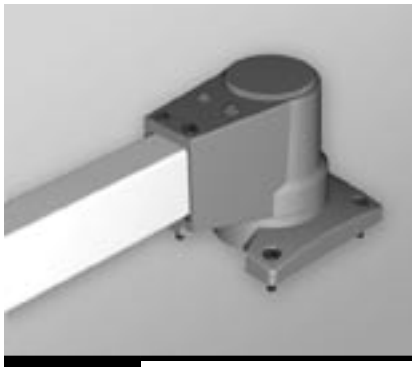




Front Section End View



TopView

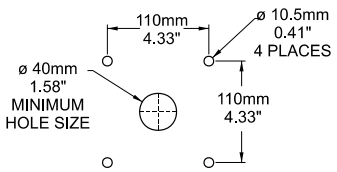


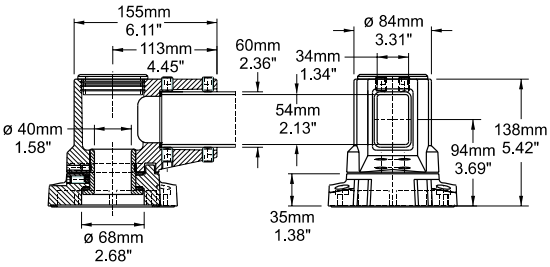
Part No. **R149-005-000**

Socket Joint

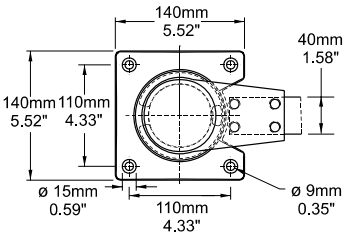
- Accepts 60x40mm rectangular tube parallel to its mounting surface.
- Die-cast Aluminum G Al Si 12.
- Integrated movement stop.
- Service free bearings.
- Rotates 300°.
- Adjustment screws (red screws).
- Accessible from the top.

Hole Pattern





Front Section Socket Joint End View



TopView

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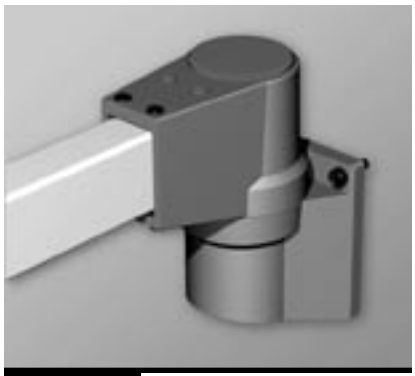
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Suspension Systems - NEMA 12, 13

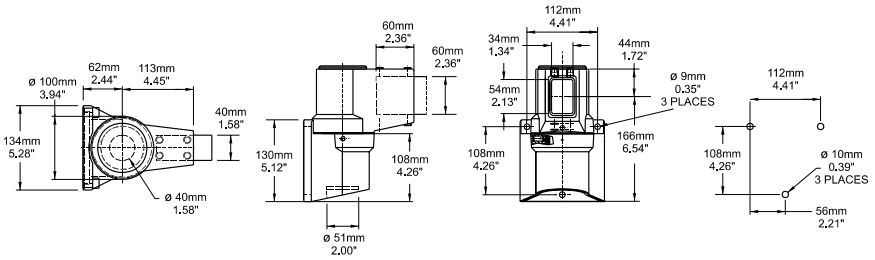
Tara Plus Suspension System



Part No. **R149-010-000**

Wall Joint

- Accepts 60x40mm rectangular tube perpendicular to its mounting surface.
- Die-cast Aluminum G Al Si 12.
- Rotates 186°.
- Accessible from the top.



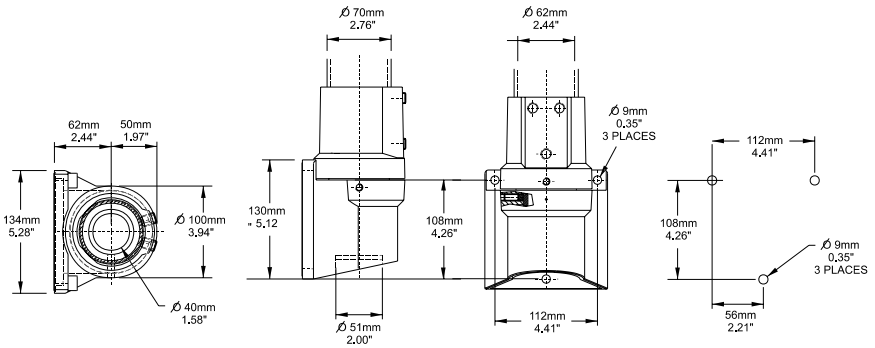
TopView | Front View | End View | Hole Pattern



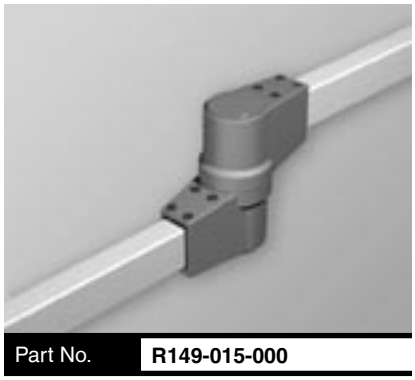
Part No. **R149-010-001**

Vertical Wall Joint

- Accepts 70mm tube parallel to its mounting surface.
- Die-cast Aluminum G Al Si 12.
- Rotates 316°.



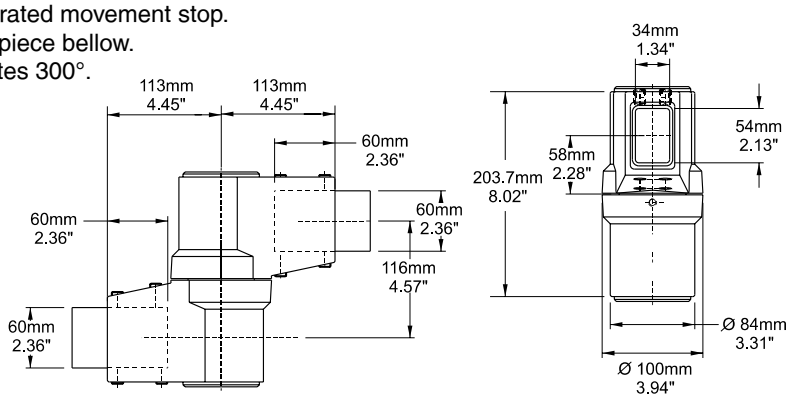
TopView | Front View | End View | Hole Pattern



Part No. **R149-015-000**

Intermediate Joint

- Accepts 60x40mm rectangular tube.
- Die-cast Aluminum G Al Si 12.
- Integrated movement stop.
- One piece bellow.
- Rotates 300°.



Front View | End View

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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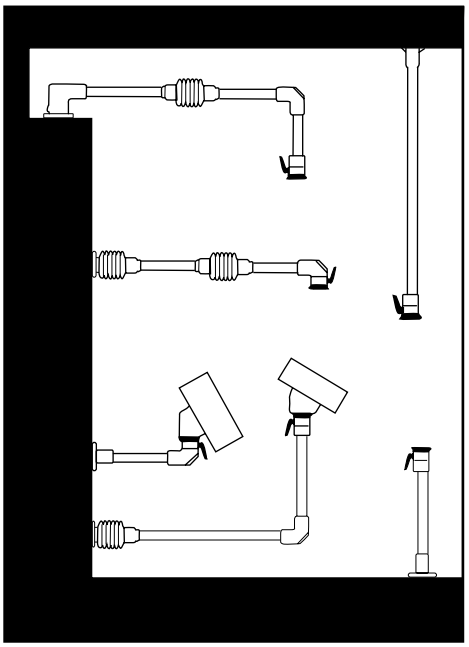
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Suspension Systems - NEMA 12, 13

Heavy Duty 50 mm or 80 mm





Application

- Command 50mm and 80mm enclosure suspension systems are designed for medium and heavy loads.
- The strength of square tube and cast fittings provide a highly flexible, robust system.

Construction

- Enclosure coupling and elbow coupling fittings are die-cast from G Al Si 12 aluminum.
- All other fittings are die-cast 4G-s.g. iron.
- Suspension tubing is steel.

Finish

- Fittings are finished in RAL 7040 window gray powder coating.
- Suspension tubing is RAL 7035 light gray powder coating.

Standards

- **Complies with**
  - IEC 60529, IP 54

Technical references and DXF downloads available at www.hammfg.com

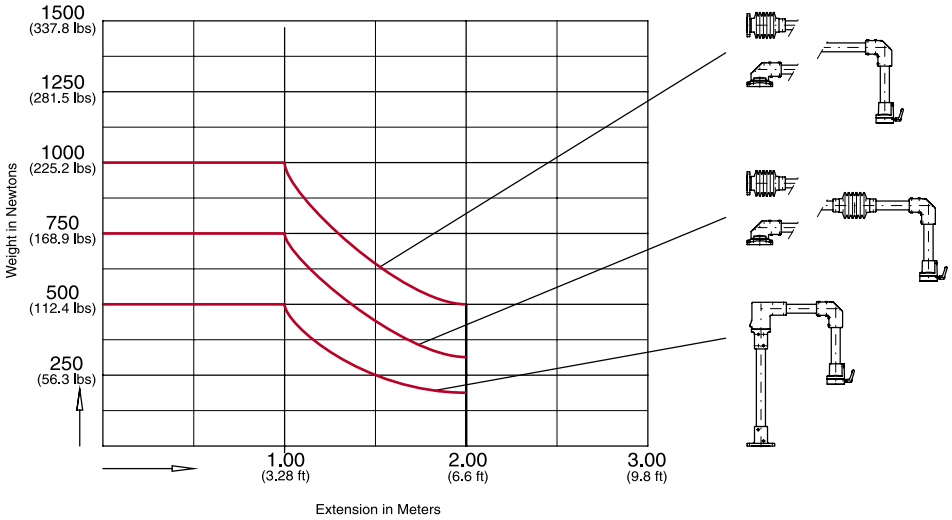
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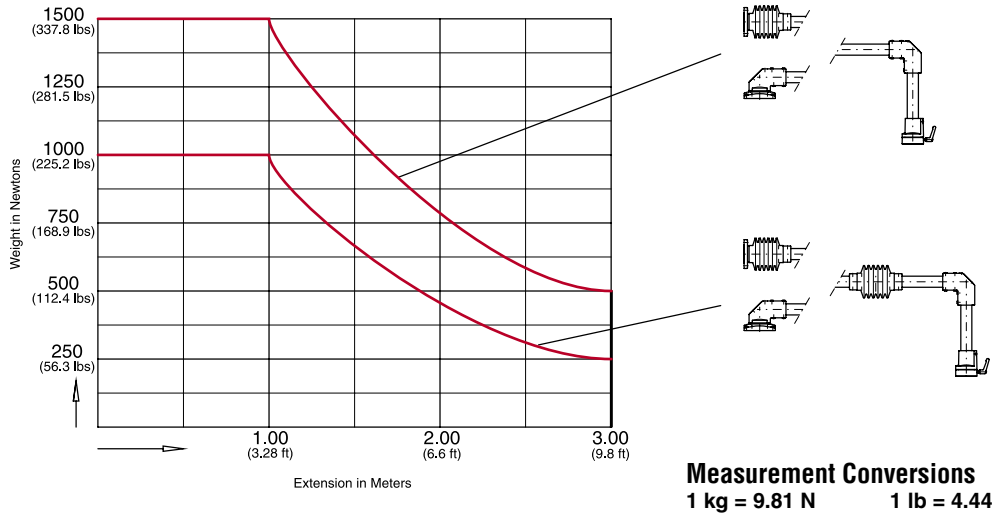
Suspension Systems - NEMA 12, 13

Heavy Duty 50 mm or 80 mm

Load Capacity for 50mm



Load Capacity for 80mm

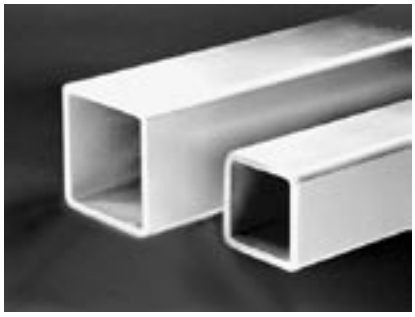


Measurement Conversions

1 kg = 9.81 N **1 lb = 4.44 N**

e.g. 500 Newtons = 51 kg = 112.4 lbs
300 Newtons = 30.6 kg = 67.4 lbs
100 Newtons = 10.2 kg = 22.5 lbs

1 foot = 0.305 m



Suspension Tube

Part No.	Outside mm	Inside mm	Tolerance	Length Metres	Length Feet	Ship Wt. lbs
R144-021-000R	50	40	±0.5	1	3.28	17
R144-022-000R	Square			2	6.56	26
R144-041-000R	80	70	±0.6	1	3.28	21
R144-042-000R	Square			2	6.56	33

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Suspension Systems - NEMA 12, 13

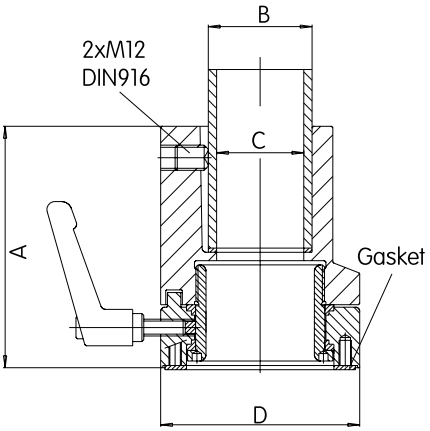
Heavy Duty 50 mm or 80 mm Components

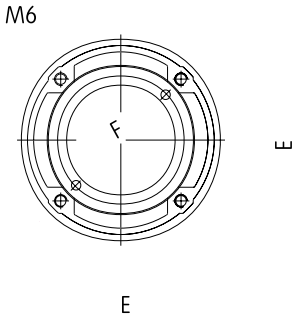


Enclosure Coupling

- Cast aluminum.
- Large thrust flange.
- Fastens with 4 hex socket screws.
- Adjustable torque resistance.
- Features a rotation range of 300°.

Part No.		System	A	B	C	D	E	F	Ship Wt. lbs.
R147-025-000R	in	50	4.53	1.97	1.65	3.78	2.28	2.06	3
	mm		*115*	*50*	*42*	*96*	*58*	*52.3*	
R147-025-200R	in	80	5.71	3.15	2.83	5.47	3.42	3.35	7
	mm		*145*	*80*	*72*	*139*	*87*	*85*	



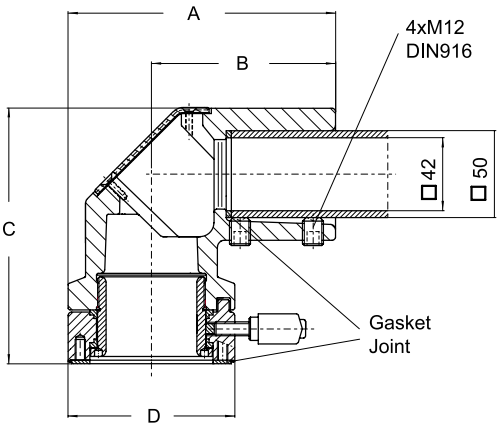


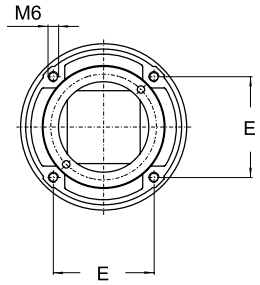


Elbow Coupling

- Cast Aluminum
- Large thrust flange.
- Fastens with 4 hex socket screws.
- Adjustable torque resistance.
- Features a rotation range of 300°.

Part No.		System	A	B	C	D	E	Ship Wt. lbs.
R147-035-000R	in	50	6.06	4.17	5.79	3.78	2.28	5
	mm		*154*	*106*	*147*	*96*	*58*	
R147-035-200R	in	80	8.21	5.47	7.48	5.47	3.43	15
	mm		*208.5*	*139*	*190*	*139*	*87*	





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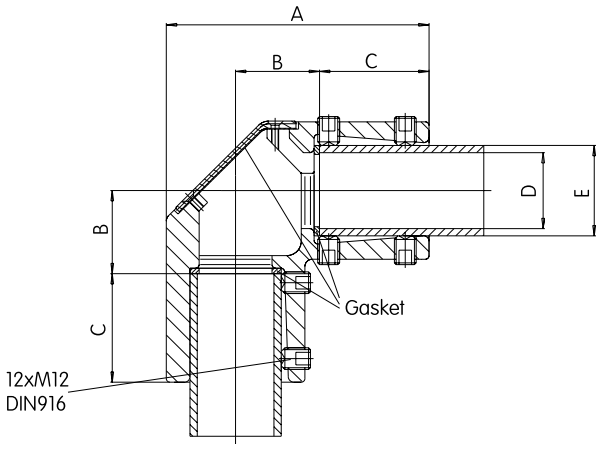
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Suspension Systems - NEMA 12, 13
Heavy Duty 50 mm or 80 mm Components



Part No.		System	A	B	C	D	E	Ship Wt. lbs.
R147-020-000R	in	50	5.67	1.81	2.36	1.65	1.97	3
	mm		*144*	*46*	*60*	*42*	*50*	
R147-020-200R	in	80	7.60	2.20	3.27	2.76	3.15	6
	mm		*193*	*56*	*83*	*70*	*80*	

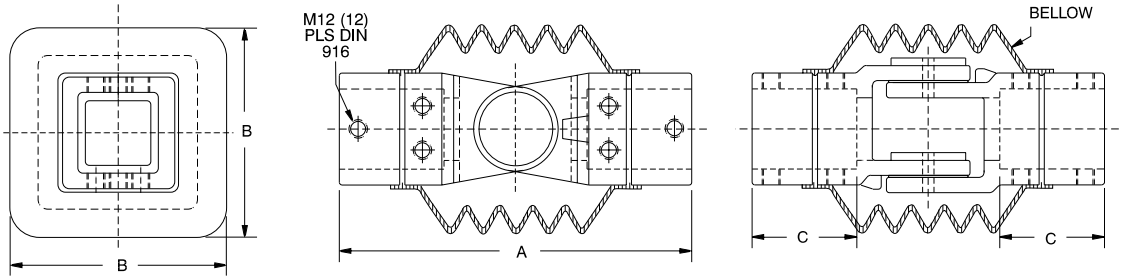


Elbow
- Cast Aluminum
- Large cover opening for easier cable pull through.



Intermediate Joint
- 4G-s.g. cast iron.
- Integrated movement stop.
- One piece bellow.
- Two sleeves.
- Features a rotation range of 170°.

Part No.		System	A	B	C	Ship Wt. lbs.
R147-015-000R	in	50	9.29	5.51	2.76	9
	mm		*236*	*140*	*70*	
R147-015-200R	in	80	12.60	7.09	3.82	24
	mm		*320*	*180*	*97*	



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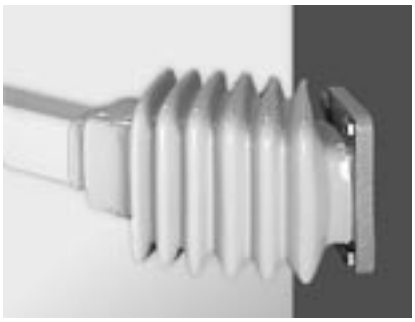
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Suspension Systems - NEMA 12, 13

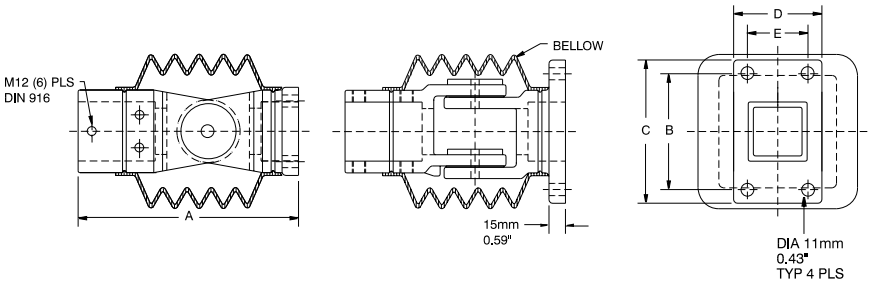
Heavy Duty 50 mm or 80 mm Components



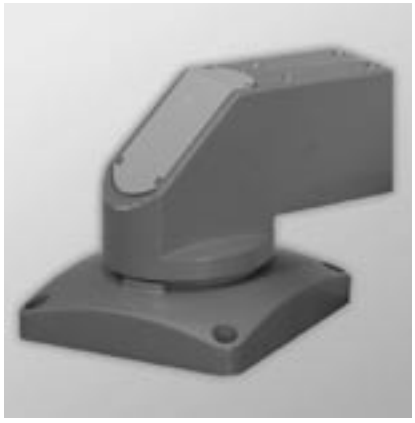
Wall Joint

- 4G-s.g. cast iron.
- Integrated movement stop.
- One piece bellow.
- Two sleeves.
- Features a rotation range of 170°.

Part No.		System	A	B	C	D	E	Ship Wt. lbs.
R147-010-000R	in	50	7.87	4.13	5.12	3.15	2.17	9
	mm		*200*	*105*	*130*	*80*	*55*	
R147-010-200R	in	80	10.83	5.91	6.89	4.53	3.54	20
	mm		*275*	*150*	*175*	*115*	*90*	



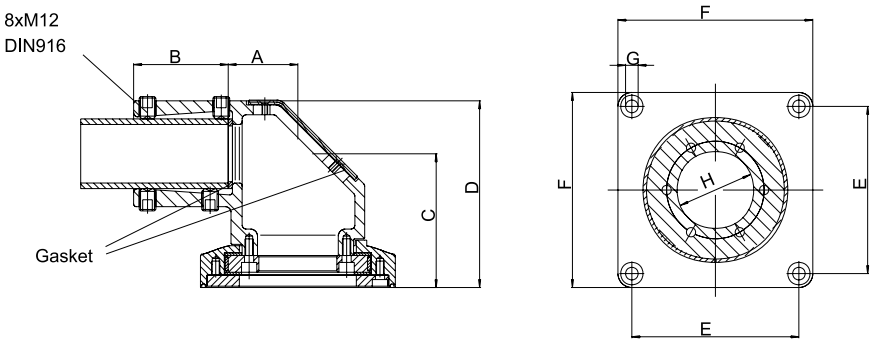
Top View | Front View | Side View



Socket Joint

- Cast Aluminum.
- Integrated movement stop.
- Service free bearings.
- Features a rotation range of 300°.
- Can mount on top of machine or inverted.

Part No.		System	A	B	C	D	E	F	G	H	Ship Wt. lbs.
R147-005-000R	in	50	1.97	2.68	3.78	5.28	4.72	5.51	.35	2.17	12
	mm		*50*	*68*	*96*	*134*	*120*	*140*	*9*	*55*	
R147-005-200R	in	80	2.91	3.86	5.57	7.70	7.09	8.27	.51	3.30	35
	mm		*74*	*98*	*141.5*	*195.5*	*180*	*210*	*13*	*84*	



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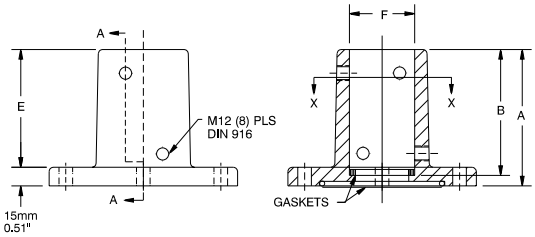
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Suspension Systems - NEMA 12, 13
Heavy Duty 50 mm or 80 mm Components



Cast Iron Base
- 4G-s.g. cast iron.
- Gasket included.
- Does not rotate.

Part No.		System	A	B	C	D	E	F	Ship Wt. lbs.
R147-030-000R	in	50	4.33	3.94	5.98	4.92	3.74	1.97	7
	mm		*110*	*100*	*152*	*125*	*95*	*50*	
R147-030-200R	in	80	5.51	5.12	7.87	6.81	4.92	3.15	15
	mm		*140*	*130*	*200*	*173*	*125*	*80*	

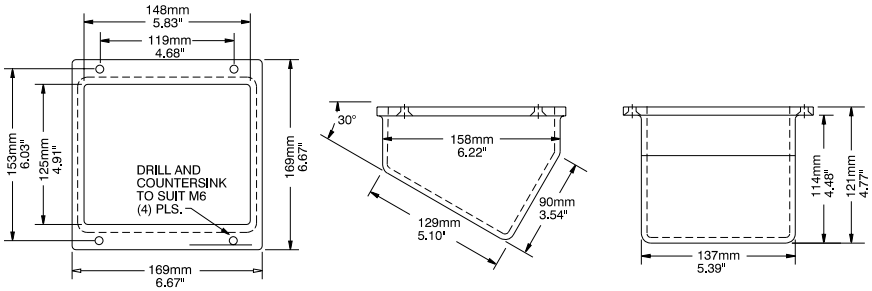


Front View | Section A-A | Section X-X



Slope Adaptor
- Provides 30° or 60° incline by mounting to rear of enclosure.
- Cast aluminum.

Part No.	Ship Wt. lbs.
R140-045-000R	8



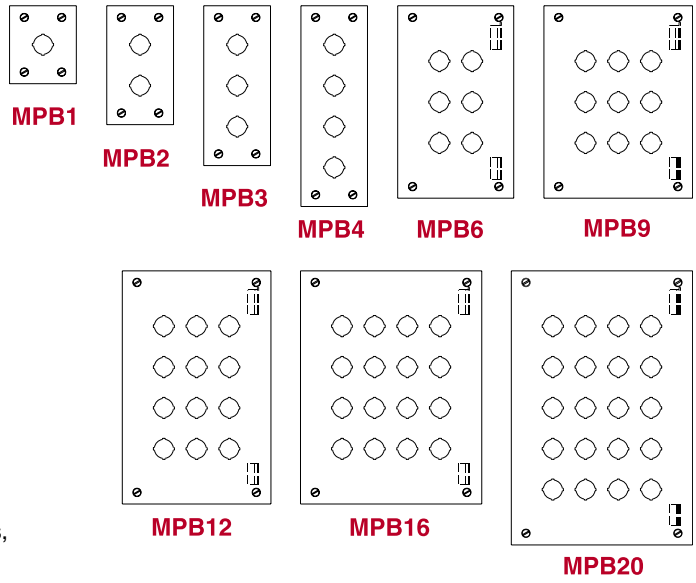
Top View | Front View | Side View

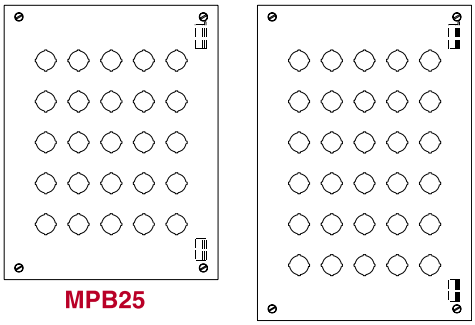
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Pushbutton Enclosures - NEMA 12, 13

Miniature Pushbutton MPB Series







Application

- Designed to accept 22mm miniature oil tight pushbuttons, switches and pilot lights.
- Provides protection from dirt, dust, oil and water.

Standards

- UL 508 Type 12 and 13
- CSA Type 12 and 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EMP-1-1967
  - JIC EGP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 gauge steel except the MPB1 which is 16 gauge.
- Smooth continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Captive cover screws thread into sealed wells.
- Larger enclosures provide internally hinged removable covers, designed to hold the cover open during wiring (see table).
- Oil resistant gasket and adhesive.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray powder coating.

Accessories

- Hole plugs...*see page* ***432***
- Pedestals...*see page* ***449***

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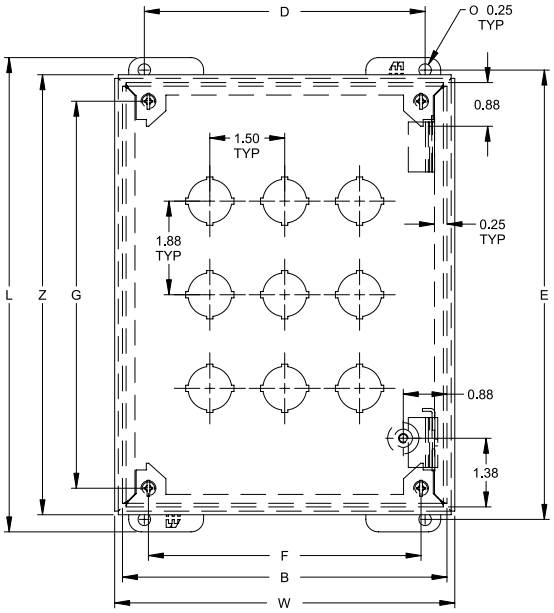
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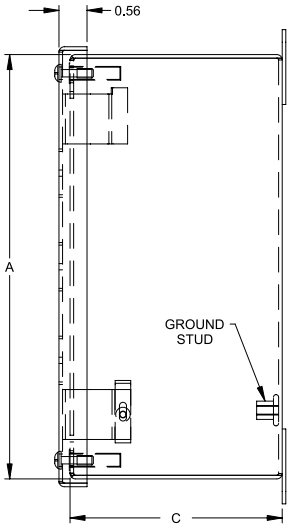
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Pushbutton Enclosures - NEMA 12, 13

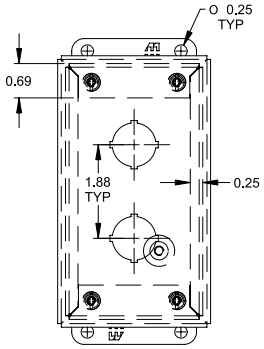
Miniature Pushbutton MPB Series



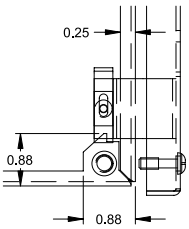
Front View
Body Type MPB6 through MPB30
(Hinged)



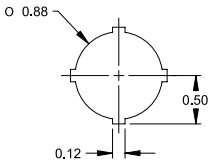
Side View



Front View
Body Type MPB1 through MPB4
(Not Hinged)



Hinge Detail
Retractable pin allows door to be
mounted on left or right side



22.5mm Detail

Part No.	No. of Holes	A	B	C	D	E	F	G	Overall Dimensions L	W	Z	Ship Wt. lbs.
MPB1[1]	1	3.25	2.75	3.50	1.88	3.75	1.71	2.50	4.25	3.06	3.56	2
MPB2[1]	2	5.13	2.75	3.50	1.88	5.63	1.71	4.38	6.13	3.06	5.44	3
MPB3[1]	3	7.00	2.75	3.50	1.88	7.50	1.71	6.25	8.00	3.06	7.31	3
MPB4[1]	4	8.88	2.75	3.50	1.88	9.38	1.71	8.13	9.88	3.06	9.19	4
MPB6	6	8.50	5.00	4.25	4.13	9.00	3.96	7.75	9.50	5.31	8.81	5
MPB9	9	8.50	6.50	4.25	5.63	9.00	5.46	7.75	9.50	6.81	8.81	6
MPB12	12	10.38	6.50	4.25	5.63	10.88	5.46	9.63	11.38	6.81	10.69	6
MPB16	16	10.38	8.00	4.25	7.13	10.88	6.96	9.63	11.38	8.31	10.69	7
MPB20	20	12.25	8.00	4.25	7.13	12.75	6.96	11.50	13.25	8.31	12.56	8
MPB25	25	12.25	9.50	4.25	8.63	12.75	8.46	11.50	13.25	9.81	12.56	9
MPB30	30	14.13	9.50	4.25	8.63	14.63	8.46	13.38	15.13	9.81	14.44	10

[1] Not hinged

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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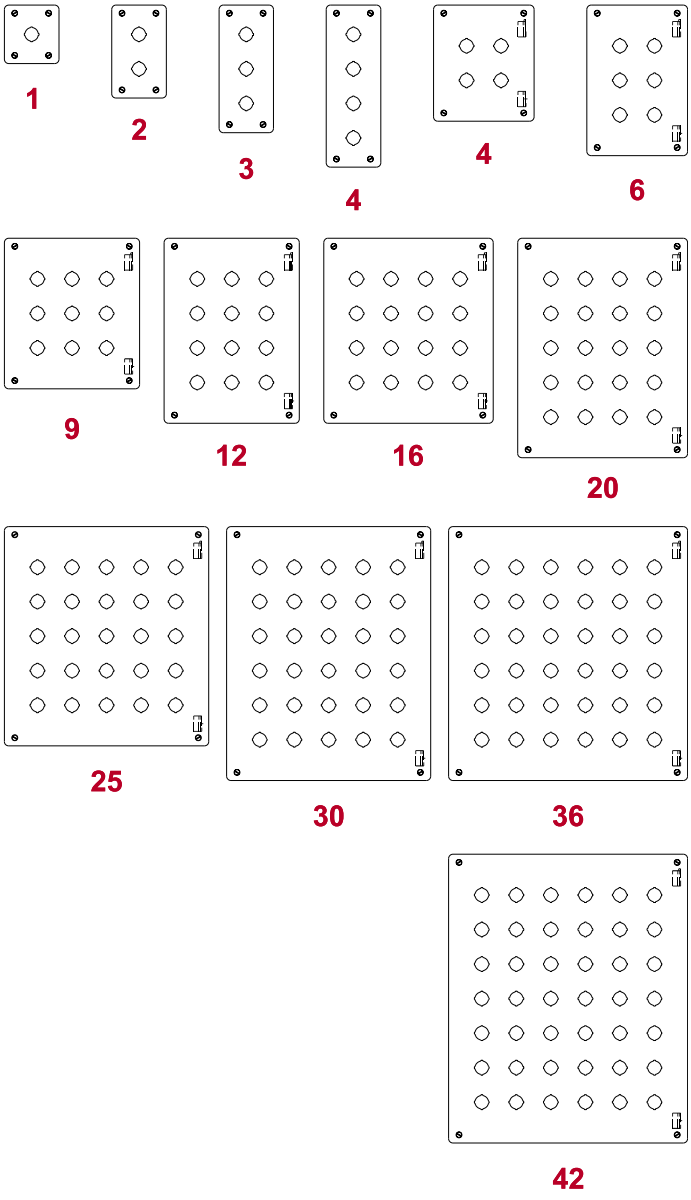
Canada: 519.822.2960 or 905.456.3770 USA: 716.630.7030

Data Subject to change without notice

Pushbutton Enclosures - NEMA 12, 13

1435/1435M Series





Application

- Designed to accept standard heavy duty oil tight pushbuttons, switches and pilot lights.
- Provides protection from dirt, dust, oil and water.

Standards

- UL 508 Type 12 and 13
- CSA Type 12 and 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC standard EGP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 gauge steel except A and B which are 16 gauge.
- Smooth continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Captive cover screws thread into sealed wells.
- Larger enclosures provide internally hinged removable covers, designed to hold the cover open during wiring (see table).
- Oil resistant gasket and adhesive.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray powder coating.

Accessories

- Hole plugs...*see page* ***432***
- Pedestals...*see page* ***449***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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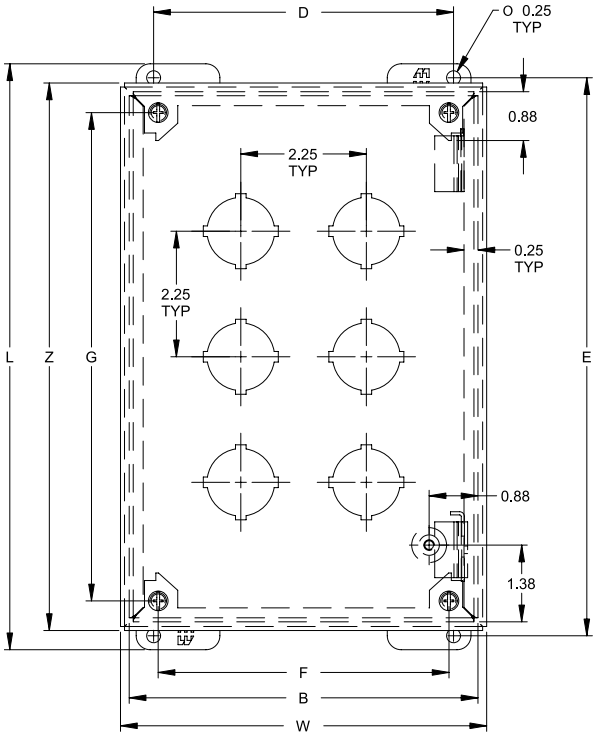
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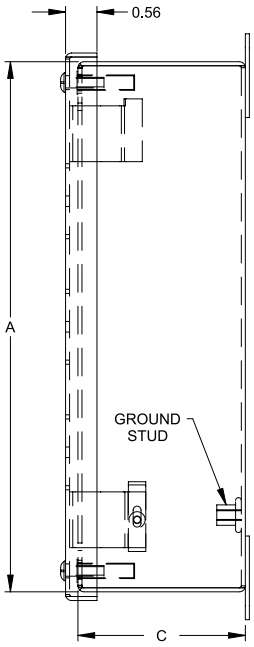
Pushbutton Enclosures - NEMA 12, 13

1435/1435M Series

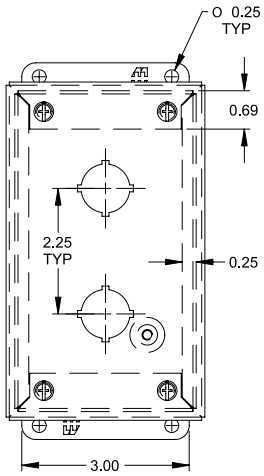


Front View

Body Type F through -42
(Hinged)

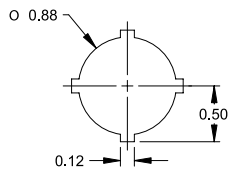


Side View

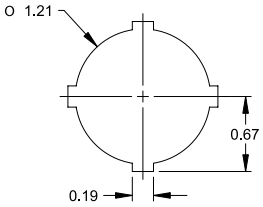


Front View

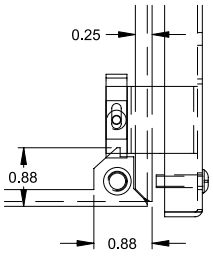
Body Type A through D
(Not Hinged)



22.5mm Detail
(1435M Series)



30.5mm Detail
(1435 Series)



Hinge Detail

Retractable pin allows door to be mounted on left or right side

Part No. 30.5mm	Part No. 22.5mm	No. of Holes	A	B	C	D	E	F	G	Overall Dimensions L	Overall Dimensions W	Overall Dimensions Z	Ship Wt. lbs.
1435A[1]	**1435MA**[1]	1	3.50	3.25	2.75	2.38	4.00	2.21	2.75	4.50	3.56	3.81	2
1435B[1]	**1435MB**[1]	2	5.75	3.25	2.75	2.38	6.25	2.21	5.00	6.75	3.56	6.06	3
1435C[1]	**1435MC**[1]	3	8.00	3.25	2.75	2.38	8.50	2.21	7.25	9.00	3.56	8.31	3
1435D[1]	**1435MD**[1]	4	10.25	3.25	2.75	2.38	10.75	2.21	9.50	11.25	3.56	10.56	4
1435F	**1435MF**	4	7.25	6.25	3.00	5.38	7.75	5.21	6.50	8.25	6.56	7.56	5
1435H	**1435MH**	6	9.50	6.25	3.00	5.38	10.00	5.21	8.75	10.50	6.56	9.81	6
1435K	**1435MK**	9	9.50	8.50	3.00	7.63	10.00	7.46	8.75	10.50	8.81	9.81	7
1435O	**1435MO**	12	11.75	8.50	3.00	7.63	12.25	7.46	11.00	12.75	8.81	12.06	8
1435S	**1435MS**	16	11.75	10.75	3.00	9.88	12.25	9.71	11.00	12.75	11.06	12.06	10
1435V	**1435MV**	20	14.00	10.75	3.00	9.88	14.50	9.71	13.25	15.00	11.06	14.31	11
1435X	**1435MX**	25	14.00	13.00	3.00	12.13	14.50	11.96	13.25	15.00	13.31	14.31	12
1435-30	**1435M-30**	30	16.25	13.00	3.00	12.13	16.75	11.96	15.50	17.25	13.31	16.56	14
1435-36	**1435M-36**	36	16.25	15.25	3.00	14.38	16.75	14.21	15.50	17.25	15.56	16.56	16
1435-42	**1435M-42**	42	18.50	15.25	3.00	14.38	19.00	14.21	17.75	19.50	15.56	18.81	18

[1] Not Hinged

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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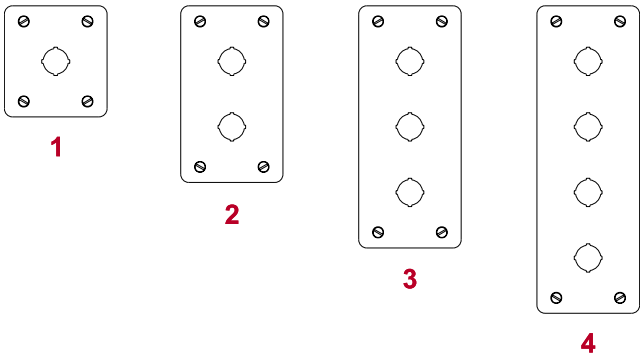
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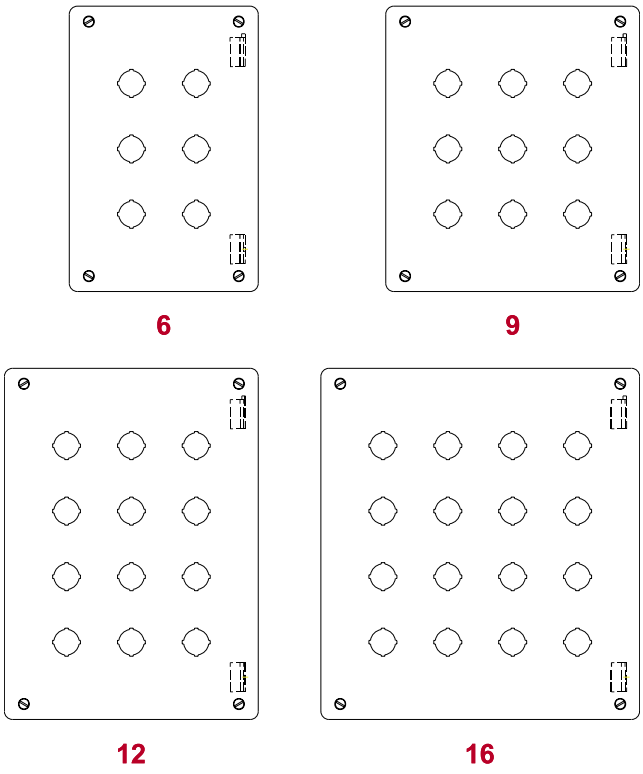
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Pushbutton Enclosures - NEMA 4, 4X

1435/ 1435M Stainless Steel Series







Application

- Designed to accept standard heavy duty oil tight pushbuttons, switches and pilot lights.
- Provides protection from dirt, dust, oil and large amounts of water from any angle, or where highly corrosive conditions exist.

Standards

- UL 508 Type 4 and 4X
- CSA Type 4 and 4X
- **Complies with**
  - NEMA Type 3R, 4 and 4X
  - JIC Standard EGP-1-1967
  - IEC 60529, IP66
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 gauge stainless steel except A and B which are 16 gauge.
- 304 or 316 SS *see table.*
- Smooth continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Captive stainless steel cover screws thread into sealed wells.
- Larger enclosures provide internally hinged removable covers, designed to hold the cover open during wiring (see table).
- Oil resistant gasket and adhesive.
- A grounding stud is provided in the enclosure.

Finish

- Natural stainless steel with a smooth brushed finish.

Accessories

- Hole plugs...*see page* ***432***

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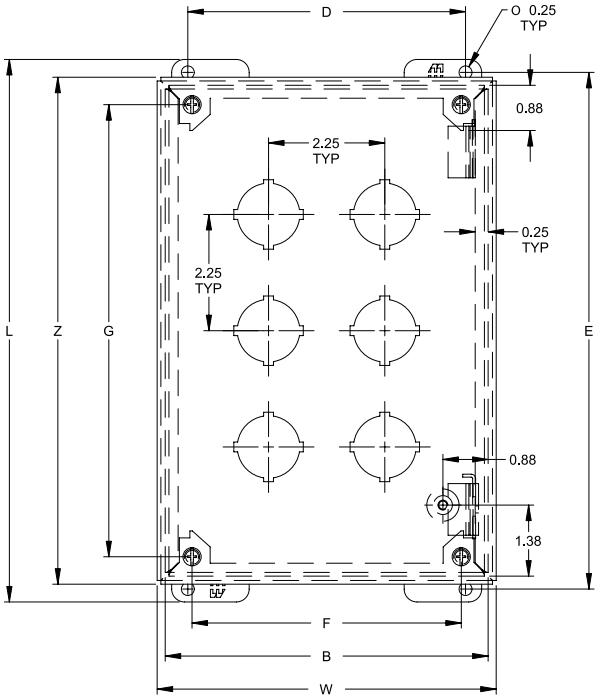
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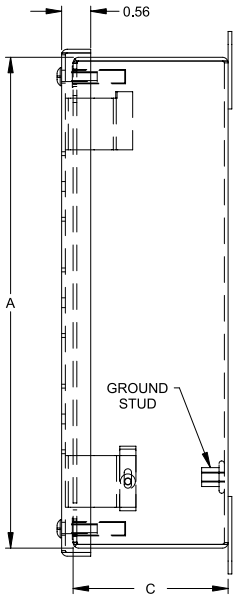
Pushbutton Enclosures - NEMA 4, 4X

1435/ 1435M Stainless Steel Series

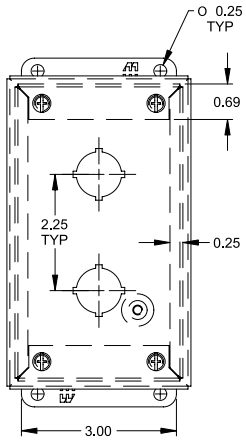


Front View

Body Type F through -42
(Hinged)

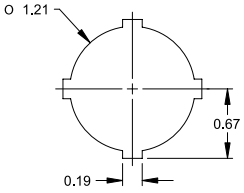


Side View

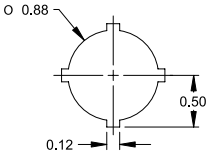


Front View

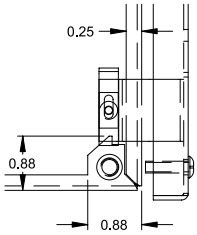
Body Type A through D
(Not Hinged)



30.5mm Detail
(1435 Series)



22.5mm Detail
(1435M Series)



Hinge Detail

Retractable pin allows door to be
mounted on left or right side

Part No.				No.								Overall Dimensions			Ship
304 S.S. 22.5mm	304 S.S. 30.5mm	316 S.S. 22.5mm	316 S.S. 30.5mm	Of Holes	A	B	C	D	E	F	G	L	W	Z	Wt. lbs.
1435MSSA[1]	**1435SSA[1]**	**1435MS16A[1]**	**1435S16A[1]**	1	3.50	3.25	2.75	2.38	4.00	2.21	2.75	4.50	3.56	3.81	2
1435MSSB[1]	**1435SSB[1]**	**1435MS16B[1]**	**1435S16B[1]**	2	5.75	3.25	2.75	2.38	6.25	2.21	5.00	6.75	3.56	6.06	3
1435MSSC[1]	**1435SSC[1]**	**1435MS16C[1]**	**1435S16C[1]**	3	8.00	3.25	2.75	2.38	8.50	2.21	7.25	9.00	3.56	8.31	3
1435MSSD[1]	**1435SSD[1]**	**1435MS16D[1]**	**1435S16D[1]**	4	10.25	3.25	2.75	2.38	10.75	2.21	9.50	11.25	3.56	10.56	4
1435MSSH	**1435SSH**	**1435MS16H**	**1435S16H**	6	9.50	6.25	3.00	5.38	10.00	5.21	8.75	10.50	6.56	9.81	6
1435MSSK	**1435SSK**	**1435MS16K**	**1435S16K**	9	9.50	8.50	3.00	7.63	10.00	7.46	8.75	10.50	8.81	9.81	7
1435MSSO	**1435SSO**	**1435MS16O**	**1435S16O**	12	11.75	8.50	3.00	7.63	12.25	7.46	11.00	12.75	8.81	12.06	8
1435MSSS	**1435SSS**	**1435MS16S**	**1435S16S**	16	11.75	10.75	4.75	9.88	12.25	9.71	11.00	12.75	11.06	12.06	10

[1] Not Hinged

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All dimensions in inches unless specified otherwise

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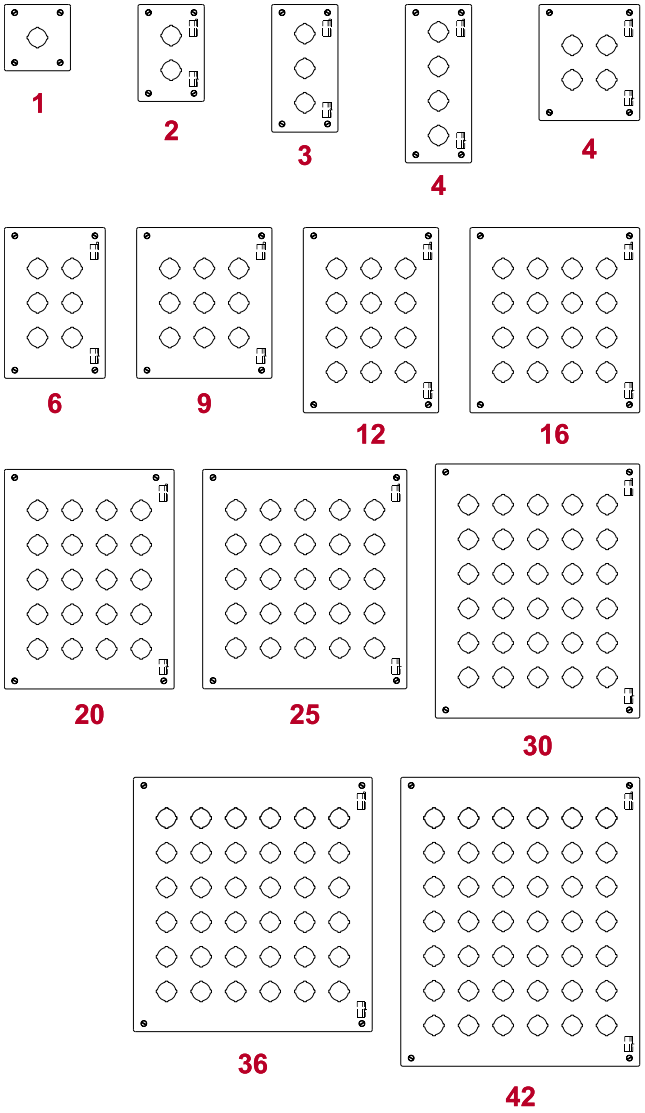
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Pushbutton Enclosures - NEMA 12, 13

1437/ 1437M Extra Deep Series





Application

- Designed to accept standard heavy duty oil tight pushbuttons, switches and pilot lights.
- Provides protection from dirt, dust, oil and water.

Standards

- UL 508 Type 12 and 13
- CSA Enclosure 12 and 13
- **Complies with**
  - NEMA Type 12 and 13
  - IEC 60529, IP54
  - JIC STD EGP-1-1967
- Appropriate components are required to maintain these standards.

Construction

- Formed from 14 gauge steel except A which is 16 gauge.
- Smooth continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Captive cover screws fasten into threaded, sealed wells.
- Larger enclosures provide internally hinged removable covers, designed to hold the cover open during wiring (see table).
- Oil resistant gasket and adhesive.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray powder coating.

Accessories

- Hole plugs...*see page* ***432***
- Pedestals...*see page* ***449***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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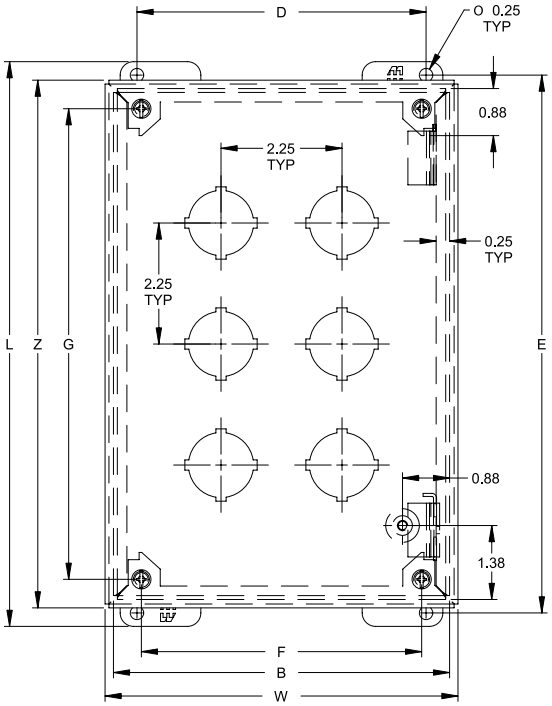
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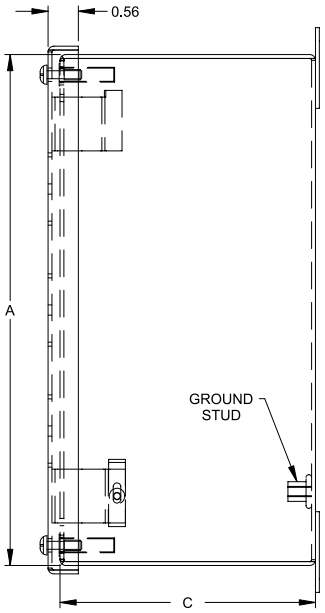
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Pushbutton Enclosures - NEMA 12, 13

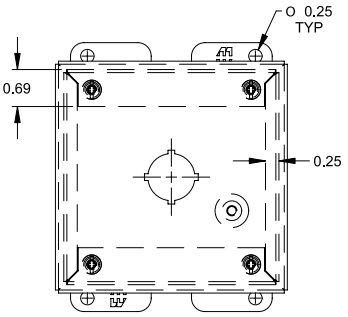
1437/ 1437M Extra Deep Series



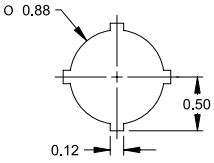
Front View
Body Type B through -42
(Hinged)



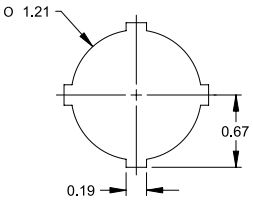
Side View



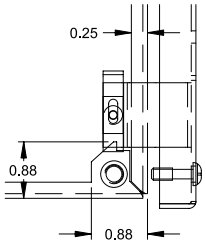
Front View
Body Type A
(Not Hinged)



22.5mm Detail
(1437M Series)



30.5mm Detail
(1437 Series)



Hinge Detail
Retractable pin allows door to be mounted on left or right side

Part No. 30.5mm	Part No. 22.5mm	No. Of Holes	A	B	C	D	E	F	G	Overall Dimensions L	Overall Dimensions W	Overall Dimensions Z	Ship Wt. lbs.
1437A[1]	**1437MA**[1]	1	4.00	4.00	4.75	3.13	4.50	2.96	3.25	5.00	4.31	4.31	3
1437B	**1437MB**	2	6.00	4.00	4.75	3.13	6.50	2.96	5.25	7.00	4.31	6.31	4
1437C	**1437MC**	3	8.00	4.00	4.75	3.13	8.50	2.96	7.25	9.00	4.31	8.31	5
1437D	**1437MD**	4	10.00	4.00	4.75	3.13	10.5	2.96	9.25	11.00	4.31	10.31	5
1437F	**1437MF**	4	7.25	6.25	4.75	5.38	7.75	5.21	6.50	8.25	6.56	7.56	5
1437H	**1437MH**	6	9.50	6.25	4.75	5.38	10.00	5.21	8.75	10.50	6.56	9.81	5
1437K	**1437MK**	9	9.50	8.50	4.75	7.63	10.00	7.46	8.75	10.50	8.81	9.81	7
1437O	**1437MO**	12	11.75	8.50	4.75	7.63	12.25	7.46	11.00	12.75	8.81	12.06	8
1437S	**1437MS**	16	11.75	10.75	4.75	9.88	12.25	9.71	11.00	12.75	11.06	12.06	9
1437V	**1437MV**	20	14.00	10.75	4.75	9.88	14.50	9.71	13.25	15.00	11.06	14.31	11
1437X	**1437MX**	25	14.00	13.00	4.75	12.13	14.50	11.96	13.25	15.00	13.31	14.31	12
1437-30	**1437M-30**	30	16.25	13.00	4.75	12.13	16.75	11.96	15.50	17.25	13.31	16.56	14
1437-36	**1437M-36**	36	16.25	15.25	4.75	14.38	16.75	14.21	15.50	17.25	15.56	16.56	16
1437-42	**1437M-42**	42	18.50	15.25	4.75	14.38	19.00	14.21	17.75	19.50	15.56	18.81	18

[1] Not Hinged

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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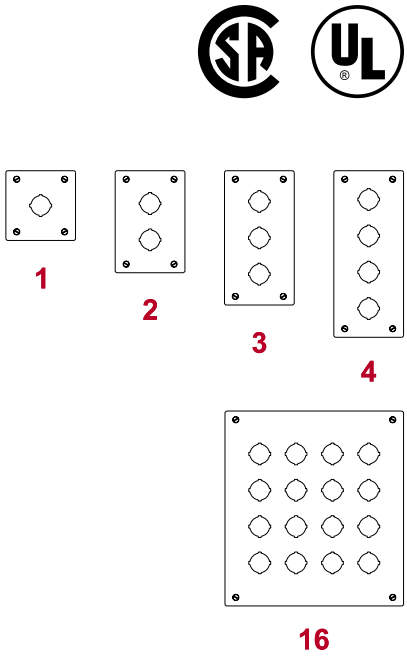
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Pushbutton Enclosures - NEMA 4, 4X

1437 Stainless Steel Series





Application

- Designed to accept standard heavy duty oil tight pushbuttons, switches and pilot lights.
- Provides protection from dirt, dust, oil and water.

Standards

- UL 508 Type 4 and 4X
- CSA Enclosure 4 and 4X
- **Complies with**
  - NEMA Type 4 and 4X
  - IEC 60529, IP66
  - JIC STD EGP-1-1967
- Appropriate components are required to maintain these standards.

Construction

- Formed from 14 gauge steel except A which is 16 gauge.
- Smooth continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Captive cover screws fasten into threaded, sealed wells.
- Larger enclosures provide internally hinged removable covers, designed to hold the cover open during wiring (see table).
- Oil resistant gasket and adhesive.
- A grounding stud is provided in the enclosure.

Finish

- Natural stainless steel with a smooth brushed finish.

Accessories

- Hole plugs...*see page* ***432***
- Pedestals...*see page* ***449***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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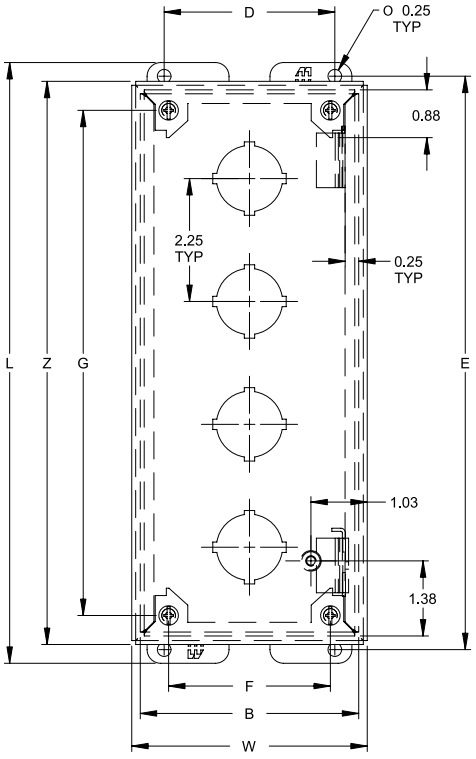
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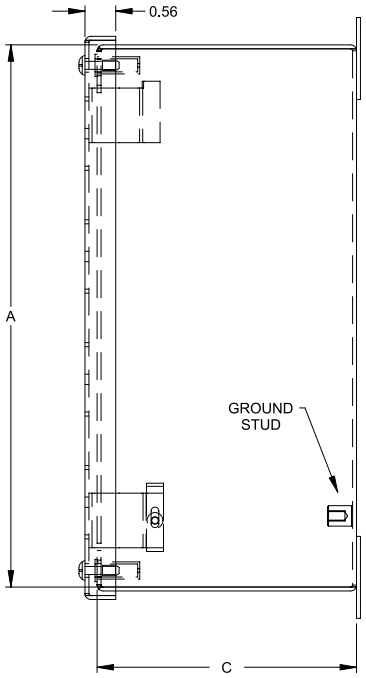
Pushbutton Enclosures - NEMA 4, 4X

1437 Stainless Steel Series

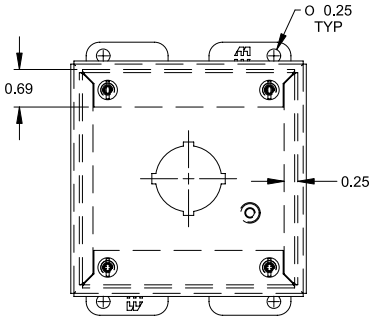


Front View

Body Type B through -42
(Hinged)

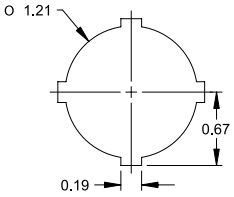


Side View

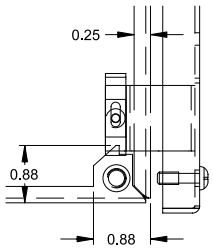


Front View

Body Type A
(Not Hinged)



22.5mm Detail



Hinge Detail

Retractable pin allows door to be
mounted on left or right side

Part No. 304 SS 30.5mm	Part No. 316 SS 30.5mm	No. Of Holes	A	B	C	D	E	F	G	Overall Dimensions L	Overall Dimensions W	Overall Dimensions Z	Ship Wt. lbs.
1437SSA[1]	**1437S16A**[1]	1	4	4	4.75	3.13	4.5	2.96	3.25	5	4.31	4.31	3
1437SSB	**1437S16B**	2	6	4	4.75	3.13	6.5	2.96	5.25	7	4.31	6.31	4
1437SSC	**1437S16C**	3	8	4	4.75	3.13	8.5	2.96	7.25	9	4.31	8.31	5
1437SSD	**1437S16D**	4	10	4	4.75	3.13	10.5	2.96	9.25	11	4.31	10.31	5
1437SSS	**1437S16S**	16	11.75	10.75	4.75	9.88	12.25	9.71	11	12.75	11.06	12.06	10

[1] not hinged

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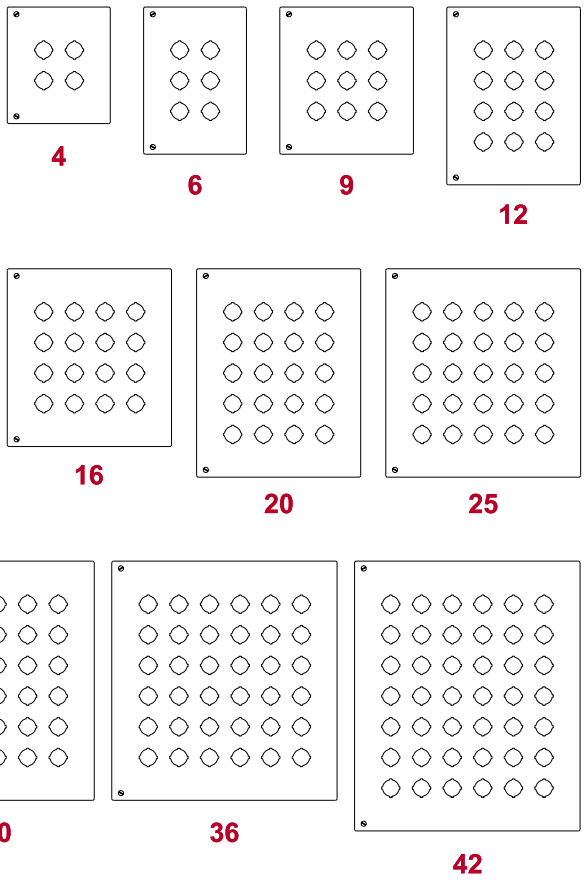
Data Subject to change without notice

Pushbutton Enclosures - NEMA 12

1489/ 1489M Continuous Hinge Series



Inner Panel Included



Application

- Designed to accept standard heavy duty oil tight pushbuttons, switches and pilot lights.
- Provides protection from dirt, dust, oil and water.

Standards

- UL 508 Type 12
- CSA Type 12
- JIC standard EGP-1-1967, EMP-1-1967
- **Complies with**
  - NEMA Type 12
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 gauge steel.
- Smooth continuously welded seams.
- Welded brackets provide for enclosure mounting.
- Continuously hinged cover is secured with captive, plated steel screws which fasten into threaded sealed wells.
- Oil resistant gasket and adhesive.
- Weldnuts are provided for mounting inner panels.
- A removable 14 gauge inner panel is included.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray powder coating.
- Removable inner panel is finished in white powder coating.

Accessories

- Hole plugs...*see page* ***432***
- Pedestals...*see page* ***449***

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All dimensions in inches unless specified otherwise

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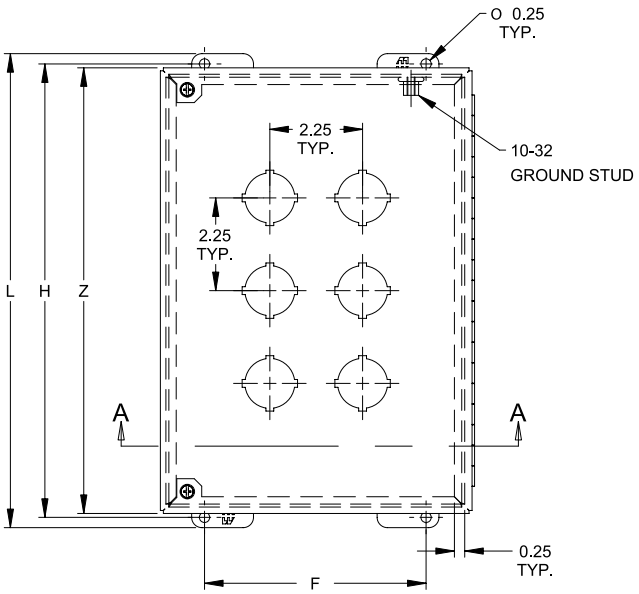
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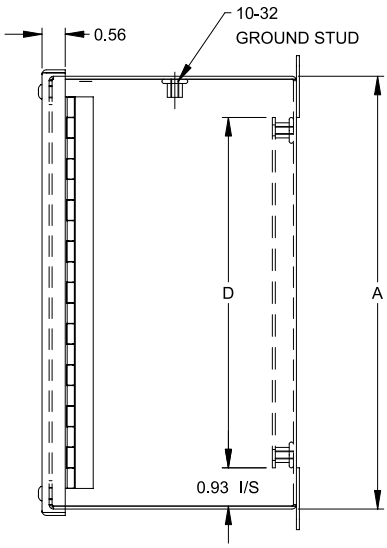
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Pushbutton Enclosures - NEMA 12

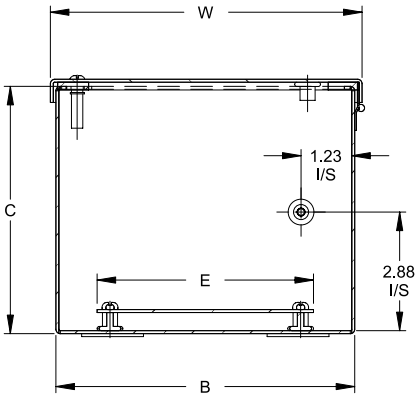
1489/ 1489M Continuous Hinge Series



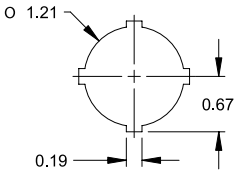
Front View



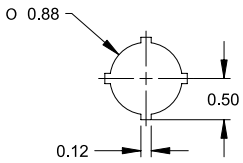
Side View



SECTION A-A



30.5mm Detail (1489 Series)



22.5mm Detail (1489M Series)

Part No.		No. Of	Panel Size						Overall Dimensions				Ship Wt.
30.5mm Hole	22.5mm Hole	Holes	A	B	C	D	E	F	H	L	W	Z	Lbs.
1489P4	**1489MP4**	4	8.25	7.25	6	6.25	5.25	5.38	8.75	9.25	7.56	8.56	9
1489P6	**1489MP6**	6	10.5	7.25	6	8.5	5.25	5.38	11	11.5	7.56	10.81	11
1489P9	**1489MP9**	9	10.5	9.5	6	8.5	7.5	7.63	11	11.5	9.81	10.81	13
1489P12	**1489MP12**	12	12.75	9.5	6	10.75	7.5	7.63	13.25	13.75	9.81	13.06	15
1489P16	**1489MP16**	16	12.75	11.75	6	10.75	9.75	9.88	13.25	13.75	12.06	13.06	19
1489P20	**1489MP20**	20	15	11.75	6	13	9.75	9.88	15.5	16	12.06	15.31	21
1489P25	**1489MP25**	25	15	14	6	13	12	12.13	15.5	16	14.31	15.31	23
1489P30	**1489MP30**	30	17.25	14	6	15.25	12	12.13	17.75	18.25	14.31	17.56	28
1489P36	**1489MP36**	36	17.25	16.25	6	15.25	14.25	14.38	17.75	18.25	16.56	17.56	32
1489P42	**1489MP42**	42	19.5	16.25	6	17.5	14.25	14.38	20	20.5	16.56	19.81	29

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

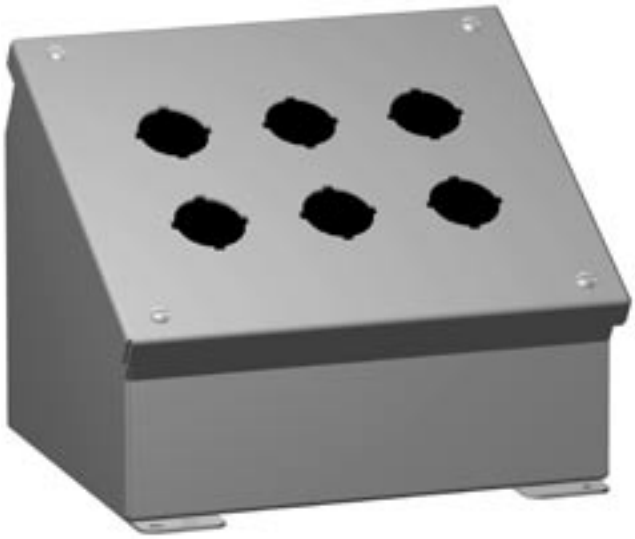
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Pushbutton Enclosures - NEMA 12, 13

1490/ 1490M Sloped Front Consolet Series



Application

- Designed to accept standard heavy duty oil tight pushbuttons, switches and pilot lights.
- Ideal for wall or surface mounting to provide the necessary control slope.
- Provides protection from dirt, dust, oil and water.

Standards

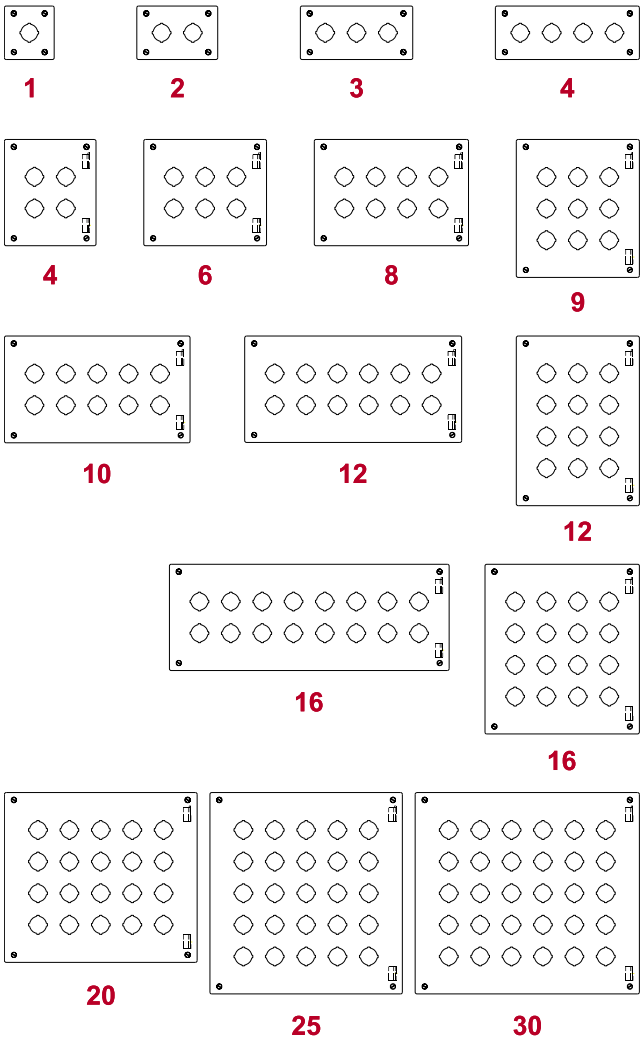
- UL 508 Type 12 and 13
- CSA Type 12 and 13
- JIC standard EGP-1-1967
- **Complies with**
  - NEMA Type 12 and 13
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

Construction

- Formed 14 gauge steel.
- Smooth continuously welded seams.
- Construction provides either a 30° or 60° slope on front cover depending on mounting position.
- Welded brackets provide for enclosure mounting.
- Captive cover screws thread into sealed wells.
- Larger enclosures provide internally hinged removable covers designed to hold the cover open during wiring (as noted in table).
- Oil resistant gasket and adhesive.
- A grounding stud is provided in the enclosure.

Finish

- Cover and enclosure are phosphatized and finished in ANSI 61 gray powder coating.



Accessories

- Hole plugs...*see page* ***432***
- Pedestals...*see page* ***449***

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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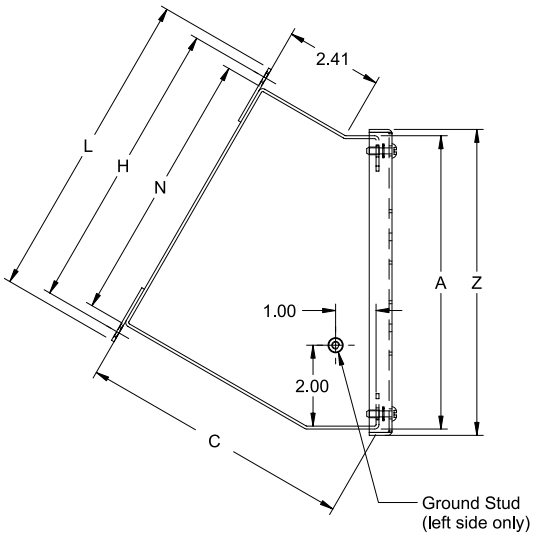
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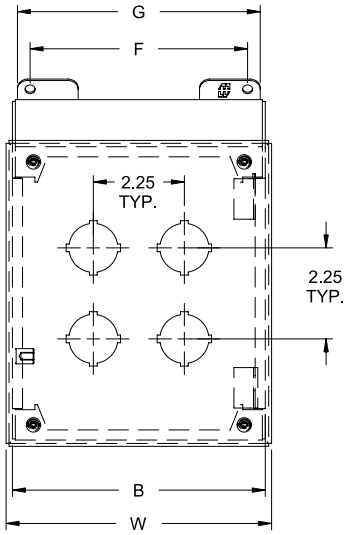
Pushbutton Enclosures - NEMA 12, 13

1490/ 1490M Sloped Front Consolet Series

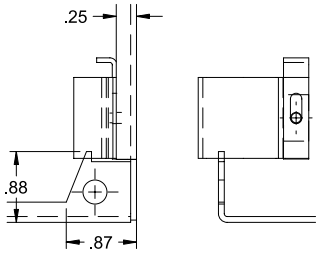


Side View

1490G4 -K30
1490MG4 -MK30

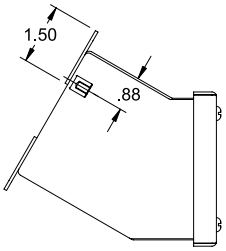


Front View



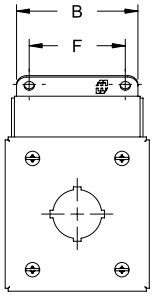
Hinge Detail

Retractable pin allows door to be mount on left side or right side.

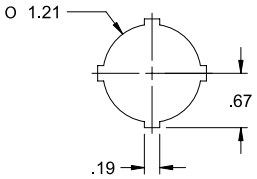


Side View

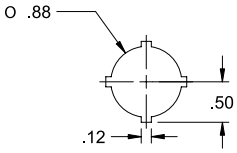
1490D1 -D4
1490MD1 -MD4



Front View



30.5mm Detail (1490 Series)



22.5mm Detail (1490M Series)

Part No. 30.5mm Holes	Part No. 22.5mm Holes	No. Of Holes	A	B	C	F	G	H	L	N	W	Z	Ship Wt. lbs.
1490D1[1]	**1490MD1**[1]	1	3.50	3.25	4.88	2.38	3.00	4.03	4.53	3.53	3.56	3.81	2
1490D2[1]	**1490MD2**[1]	2	3.50	5.50	4.88	4.63	5.25	1.03	4.53	3.53	5.81	3.81	3
1490D3[1]	**1490MD3**[1]	3	3.50	7.75	4.88	6.88	7.50	4.03	4.53	3.53	8.06	3.81	5
1490D4[1]	**1490MD4**[1]	4	3.50	10.00	4.88	9.13	8.75	4.03	4.53	3.53	10.31	3.81	6
1490G4	**1490MG4**	4	7.25	6.25	6.75	5.38	6.00	7.28	7.78	6.78	6.56	7.56	6
1490G6	**1490MG6**	6	7.25	8.50	6.75	7.63	8.25	7.28	7.78	6.78	8.81	7.56	7
1490G8	**1490MG8**	8	7.25	10.75	6.75	9.88	10.50	7.28	7.78	6.78	11.06	7.56	9
1490H9	**1490MH9**	9	9.50	8.50	7.88	7.63	8.25	9.25	9.75	8.75	8.81	9.81	9
1490G10	**1490MG10**	10	7.25	13.00	6.75	12.13	12.75	7.28	7.78	6.78	13.31	7.56	10
1490G12	**1490MG12**	12	7.25	15.25	6.75	14.38	15.00	7.28	7.78	6.78	15.56	7.56	11
1490J12	**1490MJ12**	12	11.75	8.50	9.00	7.63	8.25	11.19	11.69	10.69	8.81	12.06	13
1490G16	**1490MG16**	16	7.25	19.75	6.75	18.88	19.50	7.28	7.78	6.78	20.06	7.56	14
1490J16	**1490MJ16**	16	11.75	10.75	9.00	9.88	10.50	11.19	11.69	10.69	11.06	12.06	14
1490J20	**1490MJ20**	20	11.75	13.00	9.00	12.13	12.75	11.19	11.69	10.69	13.31	12.06	16
1490K25	**1490MK25**	25	14.00	13.00	10.13	12.13	12.75	13.13	13.63	12.63	13.31	14.31	17
1490K30	**1490MK30**	30	14.00	15.25	10.13	14.38	15.00	13.13	13.63	12.63	15.56	14.31	19

[1] Not hinged

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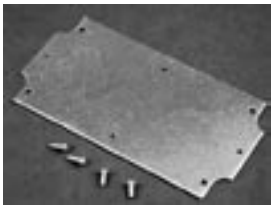
Polycarbonate Modular Enclosures - NEMA 4, 4X

1554 Series - Pushbutton Lift-Off Cover Enclosures, 22 mm and 30.5 mm





Feet Kit



Optional Inner Panel

Standards

- IP66
- NEMA 4, 4X, 12 & 13
- UL94 5V

Construction

- Electronic instrument enclosures, designed for mounting printed circuit boards or DIN rail mounted components.
- The polycarbonate material carries a UL flammability rating of UL94 5V and is suitable for outdoor use.
- Lid and mounting holes are located outside of the gasket seal.
- Lid is secured with self captivating M4 stainless steel machine screws (included), threaded into integral stainless steel bushings (for repetitive assembly & disassembly).
- Heavy duty 16 gauge galvanized steel panels available (see chart)
- All stainless steel hardware to avoid corrosion caused by dissimilar metals.
- Gasket is factory poured using high temperature U.L. listed - silicone rubber gasket material.
- Gasketed lid with two piece “tongue & groove” construction provides protection against access of oil, dust and water.
- Internal DIN rail mounting tabs.
- Threaded (M3) integral brass inserts & standoffs designed for M3.5 or #6 self tapping screws for P.C. board or inner panel mounting in all but the smallest size.
- Vertical P.C. card guides (for 1.5 mm thick P.C. boards) are molded in all but the smallest size

Finish

- Color is light gray (RAL 7035)

Optional Inner Panel

- Heavy duty panels for mounting components...*see page* ***313***
- Galvanized 16 ga. steel.
- Includes mounting hardware.

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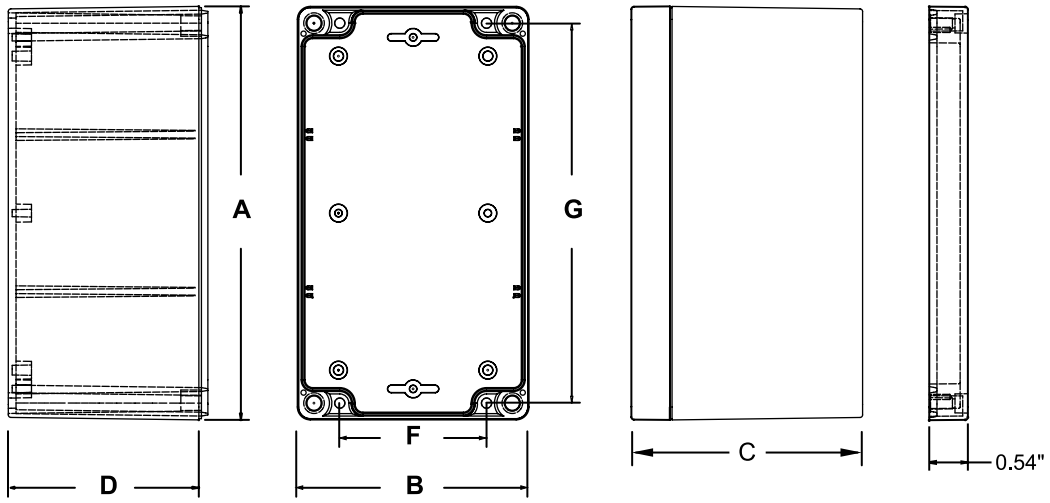
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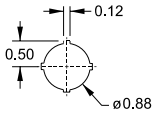
Polycarbonate Modular Enclosures - NEMA 4, 4X

1554 Series - Pushbutton Lift-Off Cover Enclosures, 22 mm and 30.5 mm

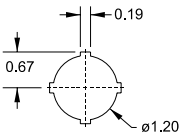


Body View

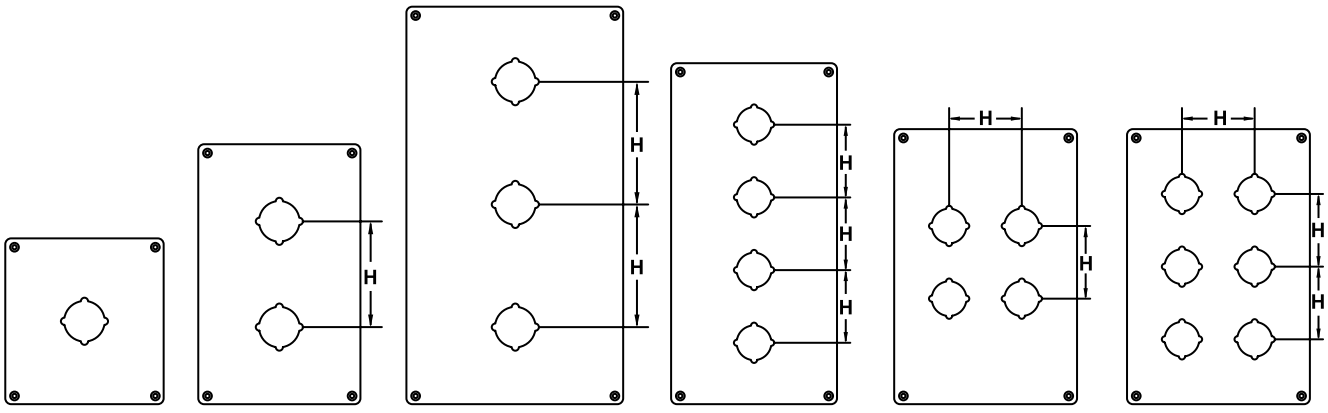
Lid View



22.5mm Hole



30.5mm Hole



PB1 & MPB1 | PB2 & MPB2 | PB2 & MPB2 | MPB4 | PB4 | PB6 & MPB6

Part No. 22 mm	Part No. 30.5 mm	# of Holes	Units	A	B	Overall Depth C	D	F	G	22 mm H	30.5 mm H	Optional Inner Panel Part No.	Units	Dimensions Length	Dimensions Width
1554MPB1	**1554PB1**	1	inch	3.5	3.5	2.4	1.77	2.24	2.24	Center	Center	**1554EPL**	inch	3.1	3.1
			mm	*90*	*90*	*60*	*45*	*57*	*57*	Center	Center		*mm*	*79*	*79*
1554MPB2	**1554PB2**	2	inch	6.3	3.5	2.4	1.77	2.24	5.79	1.89	2.52	**1554JPL**	inch	5.8	3
			mm	*160*	*90*	*60*	*45*	*57*	*147*	*48*	*64*		*mm*	*147*	*76*
1554MPB3	**1554PB3**	3	inch	7.9	4.7	3.5	2.95	3.43	7.37	1.89	2.52	**1554UPL**	inch	7.6	4.2
			mm	*200*	*120*	*90*	*75*	*87*	*187*	*48*	*64*		*mm*	*193*	*107*
1554MPB4	**1554PB4**	4	inch	7.9	4.7	3.5	2.95	3.43	7.37	1.89	2.52	**1554UPL**	inch	7.6	4.2
			mm	*200*	*120*	*90*	*75*	*87*	*187*	*48*	*64*		*mm*	*193*	*107*
1554MPB6	**1554PB6**	6	inch	9.5	6.3	3.5	2.95	5	8.93	1.89	2.52	**1554UPL**	inch	9.1	5.7
			mm	*240*	*160*	*90*	*75*	*127*	*227*	*48*	*64*		*mm*	*231*	*145*

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Polyester Modular Enclosures - NEMA 4, 4X

PJ Series - Solid Cover & Inline Pushbutton Enclosures, 22 mm and 30.5 mm





Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- **Complies with**
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Standard JIC sizes under 18" x 16".
- Threaded brass inserts are provided for optional inner panel.
- Cover is fastened with captive stainless steel screws in threaded brass inserts.
- Captive oil resistant gasket provides a positive seal.
- Mounting through rear holes on enclosure. Use #8 x 1 inch screw (not included).
- Enhanced UV inhibitors protect against outdoor weathering.
- Solid cover series available with and without mounting feet.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in Technical Information.

Finish

- Fiberglass polyester material has a gray finish.
- Optional steel inner panel is available in white powder coated finish.

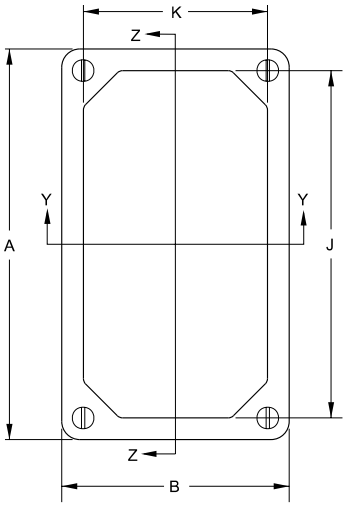
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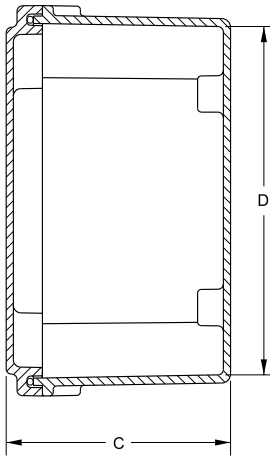
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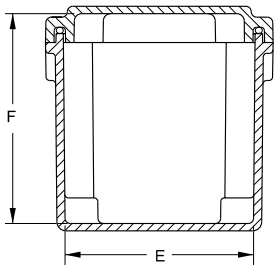
Polyester Modular Enclosures - NEMA 4, 4X

PJ Series - Solid Cover & Inline Pushbutton Enclosures, 22 mm and 30.5 mm

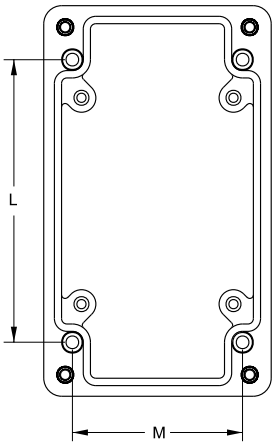




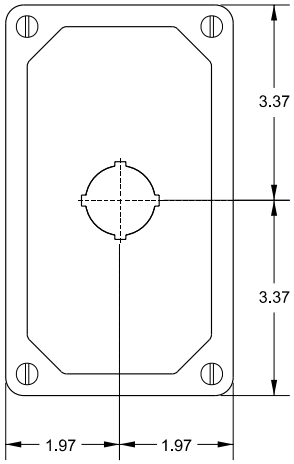
Section Z-Z

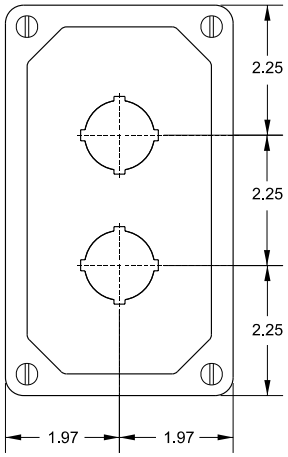


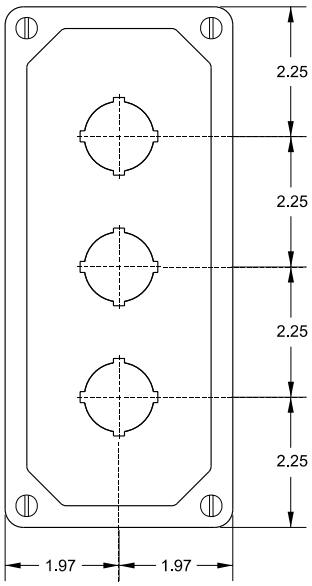
Section Y-Y



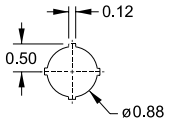
Top View with Cover Removed



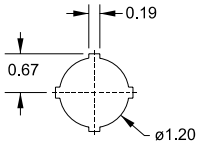




Hole Placement



22.5mm Hole



30.5mm Hole

Pushbutton Series

Part No.	Overall Dimensions A	B	C	Inside Dimensions D	E	F	J	K	L	M	# of Holes	Hole Size
PJ744P1	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	1	30.5
PJ744P221	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	1	22.5
PJ744P2	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	2	30.5
PJ744P222	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	2	22.5
PJ944P3	8.99	3.93	3.88	8.26	3.26	3.63	8.24	3.18	7.13	2.94	3	30.5
PJ944P223	8.99	3.93	3.88	8.26	3.26	3.63	8.24	3.18	7.13	2.94	3	22.5

Solid Cover Series

Part No.	Mounting Feet	Overall Dimensions A	B	C	Inside Dimensions D	E	F	J	K	L	M	Optional Steel Inner Panel	Inner Panel Dimentions
PJ744	Yes	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	PJP74	4 x 3.13
PJ744FS	No	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	PJP74	4 x 3.13
PJ944	Yes	8.99	3.93	3.88	8.26	3.26	3.63	8.24	3.18	7.13	2.94	PJP94	6.25 x 3.13
PJ944FS	No	8.99	3.93	3.88	8.26	3.26	3.63	8.24	3.18	7.13	2.94	PJP94	6.25 x 3.13

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Polyester Modular Enclosures - NEMA 4X

PJ Series - Pushbutton Lift Off and Hinged Screw Cover 30.5mm



Panel Sold Separately

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- UL 508 Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13
- **Complies with**
  - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
  - IEC 60529, IP66

Construction

- Molded fiberglass polyester enclosure with matching cover is easily punched, cut, or drilled.
- Standard JIC sizes under 18" x 16".
- Threaded brass inserts are provided for optional inner panel or terminal kit mounting.
- Cover is fastened with captive stainless steel screws in threaded brass inserts.
- Captive oil resistant gasket provides a positive seal.
- Threaded brass inserts are provided for mounting feet to the rear of the enclosure.
- Stainless steel mounting brackets and hardware are provided for mounting to the rear of the enclosure.
- Enhanced UV inhibitors protect against outdoor weathering.
- Operating temperatures between 130°C and -40°C (266°F to -40°F).
- Impact index of 6.78J (5 ft/lb).
- For corrosion resistance information, please refer to table in Technical Information.

Finish

- Fiberglass polyester material has a gray finish.
- Optional inner panels are available in white powder coated finished steel or unfinished aluminum.

Accessories

- Painted steel inner panels *...see page* **433**
- Unfinished aluminum inner panels *...see page* **433**
- Galvanized Panels*...see page* **433**
- Terminal kit assemblies*...see page* **436**

Lift Off Cover Part No.	Hinged Cover Part No.	Overall Dimensions A	B	C	Panel Size D	E	F	G	H	J	Center S	Z
PJ664P4	**PJ664HP4**	6.10	6.10	4.18	4.88	4.88	3.76	5.01	5.01	3.52	4.25	4.25
PJ864P6	**PJ864HP6**	8.00	6.12	4.13	6.75	4.88	3.68	6.89	5.01	3.47	6.25	4.25
PJ1084P9	**PJ1084HP9**	10.13	8.26	4.13	8.75	6.88	3.68	8.89	7.01	5.47	8.25	6.25
PJ1086P9	**PJ1086HP9**	10.13	8.26	6.13	8.75	6.88	5.68	8.89	7.01	5.47	8.25	6.25
PJ1086P12	**PJ1086HP12**	10.13	8.26	6.13	8.75	6.88	5.68	8.89	7.01	5.47	8.25	6.25
PJ12106P16	**PJ12106HP16**	12.13	10.26	6.13	10.75	8.88	5.68	10.89	9.01	5.47	10.25	8.25
PJ12106P20	**PJ12106HP20**	12.13	10.26	6.13	10.75	8.88	5.68	10.89	9.01	5.47	10.25	8.25
PJ14126P25	**PJ14126HP25**	14.13	12.26	6.13	12.75	10.88	5.68	12.89	11.01	5.47	12.25	10.25
PJ16148P30	**PJ16148HP30**	16.27	14.40	8.13	14.75	12.88	7.68	14.89	13.01	7.47	14.25	12.25
PJ18168P42	**PJ18168HP42**	18.40	16.40	8.13	16.88	14.88	7.68	16.97	14.97	7.47	16.25	14.25

[1] For aluminum panel...*see page* **380**.

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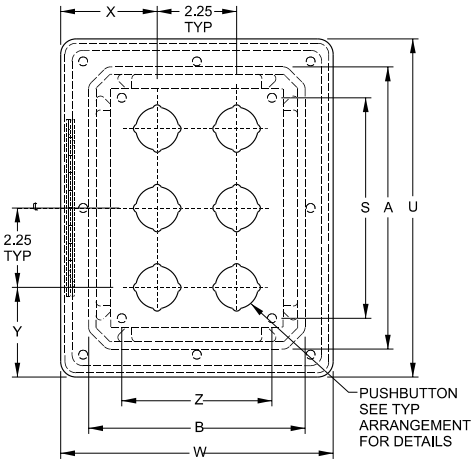
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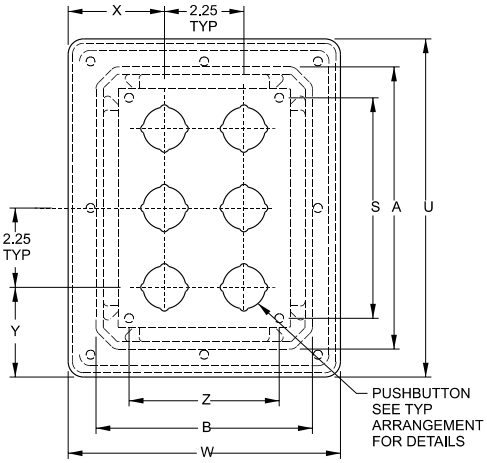
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Polyester Modular Enclosures - NEMA 4X

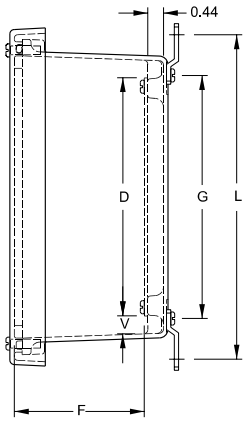
PJ Series - Pushbutton Lift Off and Hinged Screw Cover 30.5mm



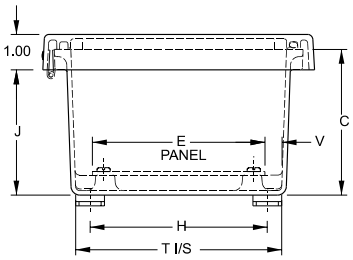
Top View
Hinged Screw Cover



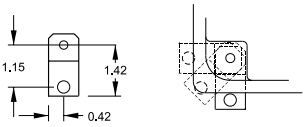
Top View
Lift Off Screw Cover



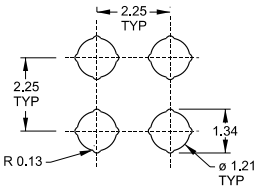
Side View



Front View



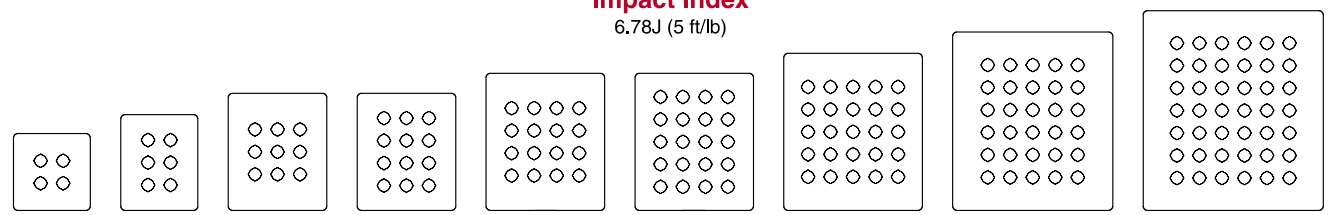
Optional Mounting Feet Locations



Typical Pushbutton Arrangement

Thermal Index
130°C to -40°C
(266°F to -40°F)

Impact Index
6.78J (5 ft/lb)



PJ664P4 PJ664HP4 | PJ864P6 PJ864HP6 | PJ1086P9 PJ1086HP9 | PJ1086P12 PJ1086HP12 | PJ12106P16 PJ12106HP16 | PJ12106P20 PJ12106HP20 | PJ14126P25 PJ14126HP25 | PJ16148P30 PJ16148HP30 | PJ18168P42 PJ18168HP42

Lift Off Cover Part No.	Hinged Cover Part No.	Optional L	T	V	U	W	Steel Panel Part No.[1]	No. Holes	X	Y	Ship Wt. Lbs.
PJ664P4	**PJ664HP4**	7.32	5.83	0.49	7.69	7.69	**14R0505**	4	2.72	2.72	4
PJ864P6	**PJ864HP6**	9.19	5.85	0.50	9.59	7.71	**14R0705**	6	2.73	2.55	4
PJ1084P9	**PJ1084HP9**	11.19	7.85	0.50	11.77	9.90	**14R0907**	9	2.68	3.62	6
PJ1086P9	**PJ1086HP9**	11.19	7.85	0.50	11.77	9.90	**14R0907**	9	2.68	3.62	6
PJ1086P12	**PJ1086HP12**	11.19	7.85	0.50	11.77	9.90	**14R0907**	12	2.68	2.49	6
PJ12106P16	**PJ12106HP16**	13.19	9.85	0.50	13.77	11.90	**14R1109**	16	2.55	3.49	8
PJ12106P20	**PJ12106HP20**	13.19	9.85	0.50	13.77	11.90	**14R1109**	20	2.55	2.37	8
PJ14126P25	**PJ14126HP25**	15.19	11.85	0.50	15.73	13.85	**14R1311**	25	2.43	3.37	11
PJ16148P30	**PJ16148HP30**	17.19	13.71	0.50	17.87	15.99	**14R1513**	30	3.50	3.31	12
PJ18168P42	**PJ18168HP42**	19.28	15.72	0.50	20.00	18.00	**P1868**	42	3.38	3.25	17

[1] For aluminum panel...*see page* **380**.

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Wireway & Trough


1485 Series Lay-In Wireway - NEMA 12 ..... **320**


1486 Series Wiring Trough - NEMA 12 ..... **328**


1487 Series Pull Through Wireway - NEMA 12 ..... **330**


Lay In Wireway - NEMA 1 ..... **336**

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1485 Series Lay-In Wireway - NEMA 12



Application
- Designed to enclose and protect electrical wiring from dirt, dust, oil and water.
- All sections and fittings are completely open on each side to allow wires and cables to be placed into the wireway without “pulling through”.

Standards
- UL 870 Type 1 (unless marked1)
- CSA Type 1 (unless marked1)
- Complies with
  - NEMA Type 12
  - JIC EMP-1-1967
  - JIC EGP-1-1967
  - IEC 60529, IP54

Construction
- Bodies and covers are formed from 14-gauge steel with 10 gauge steel flanges.
- 12” x 6” size has a 12 gauge steel body with a 14-gauge cover.
- Smooth continuously welded seams.
- Interior surfaces are smooth to prevent wire damage during installation.
- Butt hinged cover is secured with easily operated quick release clamps.
- Oil resistant gaskets are permanently secured.
- Solid oil resistant gaskets are used between flanges when sections and fittings are bolted together.
- One gasket kit, complete with hardware is provided with each straight section or fitting.
- Sealing plate is supplied.
- Flange junctions are sealed with gasket sealing plates, which are put in place after wiring is completed. One is supplied with all straight sections and most fittings; see table for exact number.

Finish
- Sections and components are finished in ANSI 61 gray powder coating.

Notes
- When joining a wireway section or fitting to an enclosure be sure to order a box connector.
- When joining two wireway sections, or joining a wireway section to a fitting, a flat sealing plate is required at each junction; necessary kits are supplied with each section and fitting. See table, extra kits may be ordered if necessary.
- When joining a lay-in wireway section or fitting to a closure plate, a box connector, or cut-off fitting, an angle sealing plate is required at each junction.
- Necessary kits are supplied with each section and fitting - see table. Extra kits, although not normally required, are necessary when joining lay-in wireway to a non-lay-in section or fitting section.

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1485 Series Lay-In Wireway - NEMA 12

Description	Sealing Plates Supplied	2.5 x 2.5 Part No.	4 x 4 Part No.	6 x 6 Part No.	8 x 8 Part No.	12 x 6 Part No.
6" Section	1 Flat	1485B6	1485C6	1485D6	1485E6	1485F6
12" Section	1 Flat	1485B12	1485C12	1485D12	1485E12	1485F12
24" Section	1 Flat	1485B24	1485C24	1485D24	1485E24	1485F24
36" Section	1 Flat	1485B36	1485C36	1485D36	1485E36	1485F36
48" Section	1 Flat	1485B48	1485C48	1485D48	1485E48	1485F48
60" Section	1 Flat	1485B60	1485C60	1485D60	1485E60	1485F60
120" Section	1 Flat	1485B120	1485C120	1485D120	1485E120	1485F120
60" Long Partition (Barrier)	—	—	1487CB60[1]	1487DB60[1]	1487EB60[1]	1487DB60[1]
1" Nipple	1 Flat	1485BM1	1485CM1	1485DM1	—	—
2" Nipple	1 Flat	1485BM2	1485CM2	1485DM2	—	—
3" Nipple	1 Flat	1485BM3	1485CM3	1485DM3	—	—
Box Entry Swivel Nipple	1 Angle	1485BV1	1485CV1	1485DV1	1485EV1	—
Standard Swivel Nipple	2 Angle	1485BV2	1485CV2	1485DV2	1485EV2	—
12" Transposition Clockwise	1 Flat	1485BZ12	1485CZ12	1485DZ12	1485EZ12	—
12" Transposition Counter-Clockwise	1 Flat	1485BZC12	1485CZC12	1485DZC12	1485EZC12	—
Flexible Fitting	None	1485BFF	1485CFF	1485DFF	1485EFF	—
Adjustable Fitting	1 Spec.	1485BX[1]	1485CX[1]	1485DX[1]	1485EX[1]	1485FX[1]
Cut-Off Fitting Lay-In	1 Flat	1485BW1[1]	1485CW1[1]	1485DW1[1]	1485EW1[1]	1485FW1[1]
Cut-Off Fitting Non Lay-In	1 Angle	1485BW2[1]	1485CW2[1]	1485DW2[1]	1485EW2[1]	1485FW2[1]
90° Elbow, Top Opening	1 Flat	1485B9N	1485C9N	1485D9N	1485E9N	1485F9N
90° Elbow, Inside Opening	1 Flat	1485B9P	1485C9P	1485D9P	1485E9P	1485F9P
90° Elbow, Outside Opening	1 Flat	1485B9Q	1485C9Q	1485D9Q	1485E9Q	1485F9Q
45° Elbow, Top Opening	1 Flat	1485B4N	1485C4N	1485D4N	1485E4N	1485F4N
45° Elbow, Inside Opening	1 Flat	1485B4P	1485C4P	1485D4P	1485E4P	—
45° Elbow, Outside Opening	1 Flat	1485B4Q	1485C4Q	1485D4Q	1485E4Q	—
Tee Fitting, Top Opening	2 Flat	1485BTN	1485CTN	1485DTN	1485ETN	1485FTN
Tee Fitting, Outside & Top Opening	2 Flat	1485BTQ	1485CTQ	1485DTQ	1485ETQ	—
Cross Fitting	3 Flat	1485BY	1485CY	1485DY	1485EY	1485FY
Reducer 4 x 4 to 2.5 x 2.5	None	—	1485CRE	—	—	—
Reducer 6 x 6 to 4 x 4	None	—	—	1485DRE	—	—
Reducer 8 x 8 to 6 x 6	None	—	—	—	1485ERE	—
Reducer 12 x 6 to 4 x 4	None	—	—	—	—	1485FREC
Reducer 12 x 6 to 6 x 6	None	—	—	—	—	1485FRED
Junction Box	1 Flat	1485BJ	1485CJ	1485DJ	1485EJ	—
Box Connector	1 Angle	1485BK[1]	1485CK[1]	1485DK[1]	1485EK[1]	1485FK[1]
Drop Hanger	None	1485BL1[1]	1485CL1[1]	1485DL1[1]	1485EL1[1]	—
Bracket Hanger	None	1485BL2[1]	1485CL2[1]	1485DL2[1]	1485EL2[1]	—
Cover Plate	1 Angle	1485BH[2]	1485CH[2]	1485DH[2]	1485EH[2]	1485FH[2]
Snap On Flat Sealing Plate	None	1485BSM[2]	1485CSM[2]	1485DSM[2]	1485ESM[2]	1485FSM[2]
Angle Sealing Plate	None	1485BS9[2]	1485CS9[2]	1485DS9[2]	1485ES9[2]	1485FS9[2]

[1] Does not meet CSA or UL requirements
[2] Maintains ratings on CSA and UL approved wireway

Technical references and DXF downloads available at www.hammfg.com

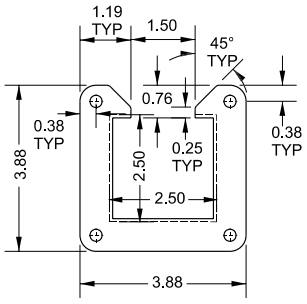
All dimensions in inches unless specified otherwise

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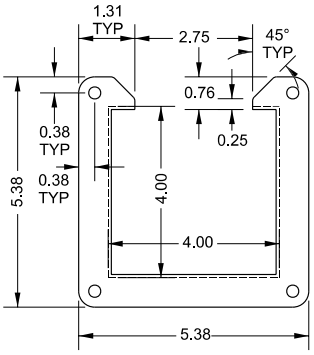
Canada: 519.822.2960 or 905.456.3770 USA: 716.630.7030

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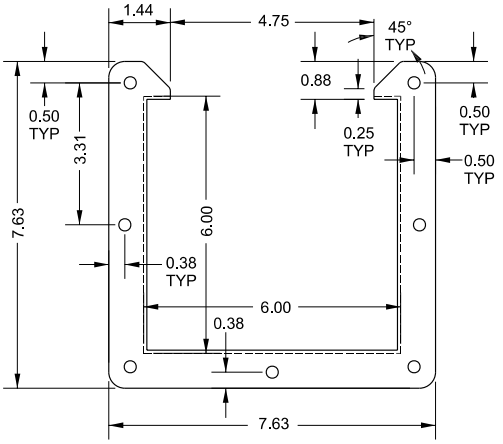
1485 Series Lay-In Wireway - NEMA 12



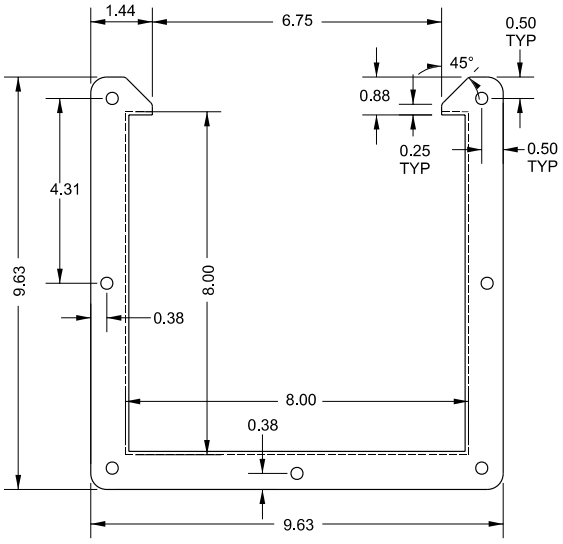
2.5 x 2.5



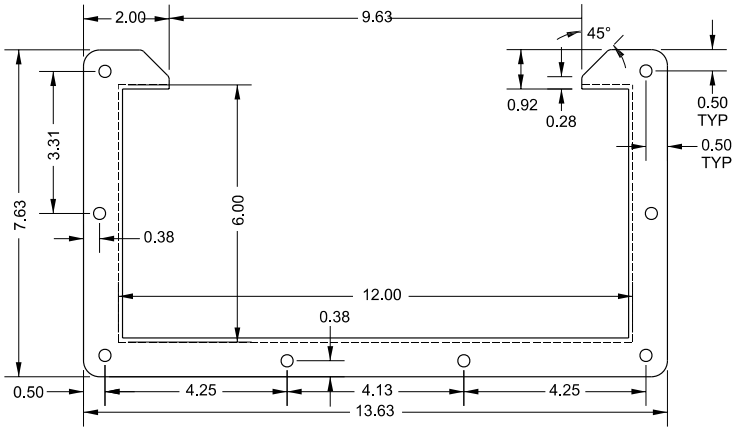
4 x 4



6 x 6



8 x 8

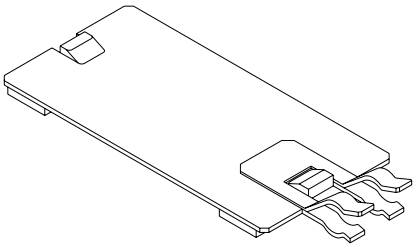


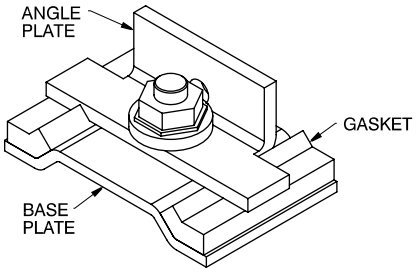
12 x 6

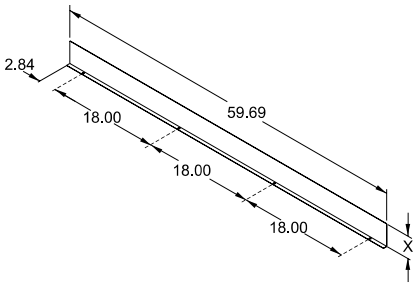
All unmarked diameters are 0.28
All unmarked radii are 0.38

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1485 Series Lay-In Wireway - NEMA 12







Snap On Flat Sealing Plate

Part No.	Size
1485BSM	2.5 x 2.5
1485CSM	4 x 4
1485DSM	6 x 6
1485ESM	8 x 8
1485FSM	12 x 6

Maintains ratings on CSA and UL approved wireway

Angle Sealing Plate

Part No.	Size
1485BS9	2.5 x 2.5
1485CS9	4 x 4
1485DS9	6 x 6
1485ES9	8 x 8
1485FS9	12 x 6

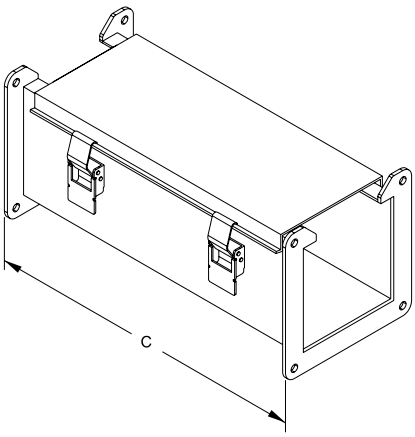
Maintains ratings on CSA and UL approved wireway

Partition (Barrier) Kit

- Divides wireway into two or more compartments. Barriers are fastened to wireway sections with screws.

Part No.	Size	X
1487CB60	4 x 4	3.72
1487DB60	6 x 6	5.72
1487EB60	8 x 8	7.72
1487DB60	12 x 6	5.72

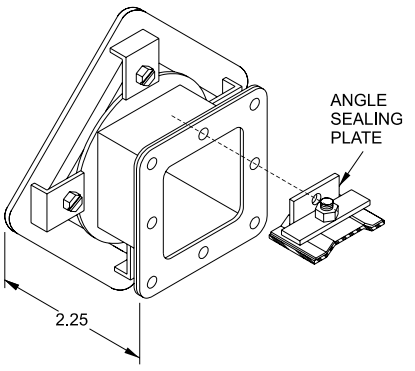
Does not meet CSA or UL requirements



Typical Straight Section

C=6" Section Part No.	C=12" Section Part No.	C=24" Section Part No.	C=36" Section Part No.	C=48" Section Part No.	C=60" Section Part No.	C=120" Section Part No.	Size
1485B6	**1485B12**	**1485B24**	**1485B36**	**1485B48**	**1485B60**	**1485B120**	2.5 x 2.5
1485C6	**1485C12**	**1485C24**	**1485C36**	**1485C48**	**1485C60**	**1485C120**	4 x 4
1485D6	**1485D12**	**1485D24**	**1485D36**	**1485D48**	**1485D60**	**1485D120**	6 x 6
1485E6	**1485E12**	**1485E24**	**1485E36**	**1485E48**	**1485E60**	**1485E120**	8 x 8
1485F6	**1485F12**	**1485F24**	**1485F36**	**1485F48**	**1485F60**	**1485F120**	12 x 6

One flat sealing plate included



Box Entry or Standard Swivel Nipple

Box Entry Swivel Nipple Part No.	Standard Swivel Nipple Part No.	Size
1485BV1[1]	**1485BV2**[2]	2.5 x 2.5
1485CV1[1]	**1485CV2**[2]	4 x 4
1485DV1[1]	**1485DV2**[2]	6 x 6
1485EV1[1]	**1485EV2**[2]	8 x 8

[1]One angle sealing plate included
[2]Two angle sealing plates included

Technical references and DXF downloads available at www.hammfg.com

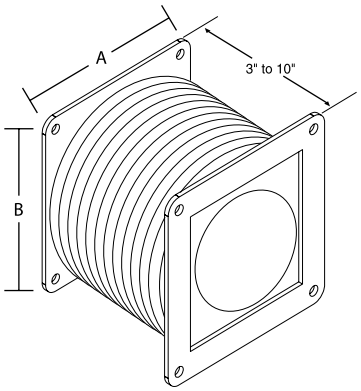
All dimensions in inches unless specified otherwise

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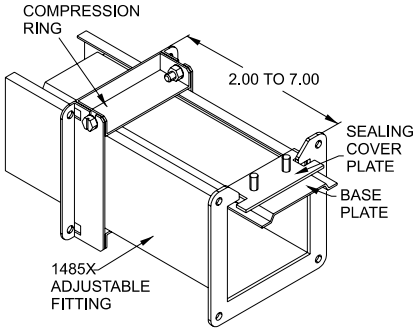
1485 Series Lay-In Wireway - NEMA 12



Flexible Fitting

- Allows for easy alignment of sections or fittings
- Metal flanges
- Flexible synthetic "bellows" middle section

Part No.	A	B
1485BFF	2.5	2.5
1485CFF	4	4
1485DFF	6	6
1485EFF	8	8

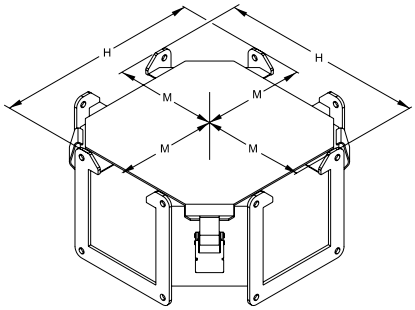


Adjustable Fitting

- Allows on site length adjustment of 2" to 7"

Part No.	Size
1485BX	2.5 x 2.5
1485CX	4 x 4
1485DX	6 x 6
1485EX	8 x 8
1485FX	12 x 6

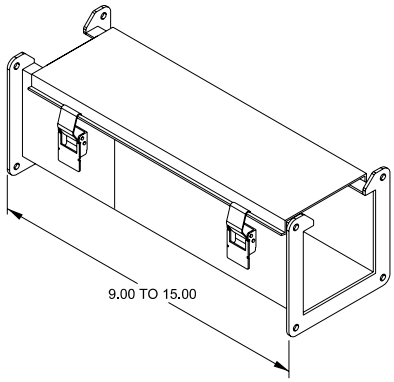
One special sealing plate included
Does not meet CSA or UL requirements



Cross Fitting

Part No.	Size	H	M
1485BY	2.5 x 2.5	8.50	4.25
1485CY	4 x 4	10.00	5.00
1485DY	6 x 6	12.00	6.00
1485EY	8 x 8	14.00	7.00
1485FY	12 x 6	18.00	9.00

Three flat sealing plates included

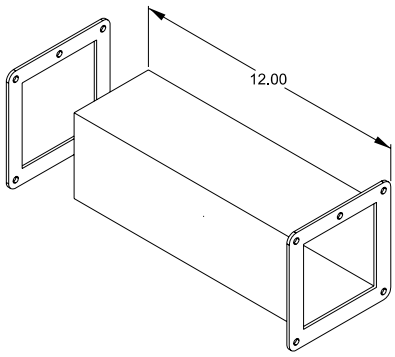


Cut-Off Fitting (Lay-In)

- Body comes in two pieces. Cut-off one piece, shorten cover, and weld together.
- Includes angle sealing plate.

Part No.	Size
1485BW1	2.5 x 2.5
1485CW1	4 x 4
1485DW1	6 x 6
1485EW1	8 x 8
1485FW1	12 x 6

One flat sealing plate included
Does not meet CSA or UL requirements

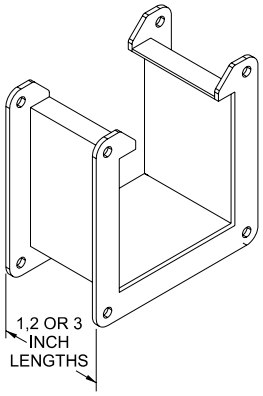


Cut-Off Fitting (Non Lay-in)

- For lengths up to 12". Cut off body and weld on flange.

Part No.	Size
1485BW2	2.5 x 2.5
1485CW2	4 x 4
1485DW2	6 x 6
1485EW2	8 x 8
1485FW2	12 x 6

One angle sealing plate included
Does not meet CSA or UL requirements



Typical Nipple

- Lay-in nipples come with a special sealing plate which cannot be used adjacent to swivel nipples (use 1487 Series nipples)

1" Nipple Part No.	2" Nipple Part No.	3" Nipple Part No.	Size
1485BM1	**1485BM2**	**1485BM3**	2.5 x 2.5
1485CM1	**1485CM2**	**1485CM3**	4 x 4
1485DM1	**1485DM2**	**1485DM3**	6 x 6

One flat sealing plate included

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

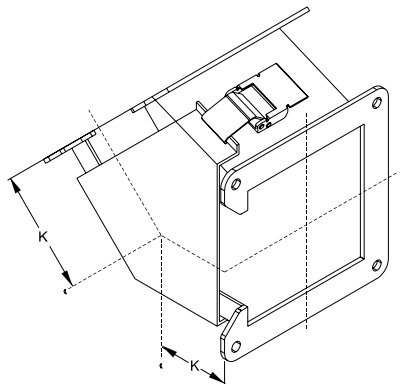
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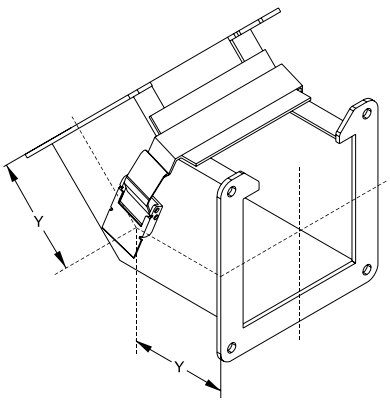
1485 Series Lay-In Wireway - NEMA 12



45° Elbow Top Opening

Part No.	Size	K
1485B4N	2.5 x 2.5	2.28
1485C4N	4 x 4	2.60
1485D4N	6 x 6	3.00
1485E4N	8 x 8	3.41
1485F4N	12 x 6	4.24

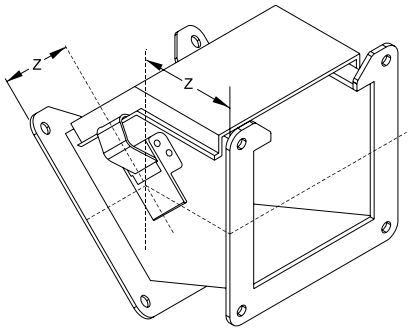
One flat sealing plate included



45° Elbow Inside Opening

Part No.	Size	Y
1485B4P	2.5 x 2.5	2.28
1485C4P	4 x 4	2.59
1485D4P	6 x 6	3.00
1485E4P	8 x 8	3.41

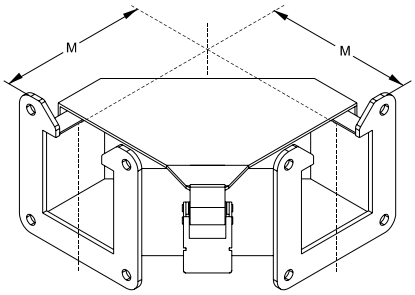
One flat sealing plate included



45° Elbow Outside Opening

Part No.	Size	Z
1485B4Q	2.5 x 2.5	2.29
1485C4Q	4 x 4	2.61
1485D4Q	6 x 6	3.02
1485E4Q	8 x 8	3.44

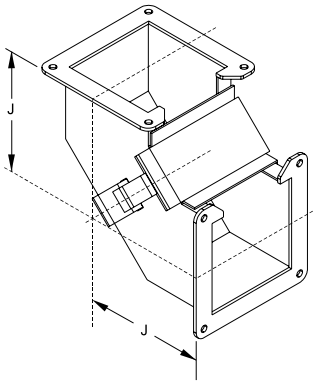
One flat sealing plate included



90° Elbow Top Opening

Part No.	Size	M
1485B9N	2.5 x 2.5	4.25
1485C9N	4 x 4	5.00
1485D9N	6 x 6	6.00
1485E9N	8 x 8	7.00
1485F9N	12 x 6	9.00

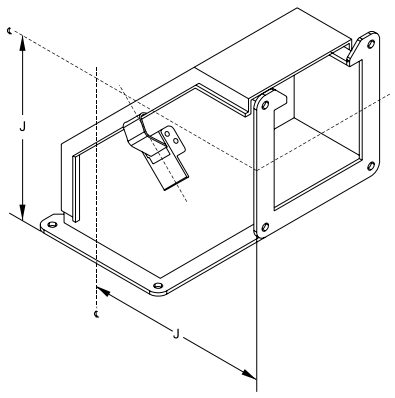
One flat sealing plate included



90° Elbow Inside Opening

Part No.	Size	J
1485B9P	2.5 x 2.5	4.25
1485C9P	4 x 4	5.00
1485D9P	6 x 6	6.00
1485E9P	8 x 8	7.00
1485F9P	12 x 6	6.00

One flat sealing plate included



90° Elbow Outside Opening

Part No.	Size	J
1485B9Q	2.5 x 2.5	4.25
1485C9Q	4 x 4	5.00
1485D9Q	6 x 6	6.00
1485E9Q	8 x 8	7.00
1485F9Q	12 x 6	6.00

One flat sealing plate included

Technical references and DXF downloads available at www.hammfg.com

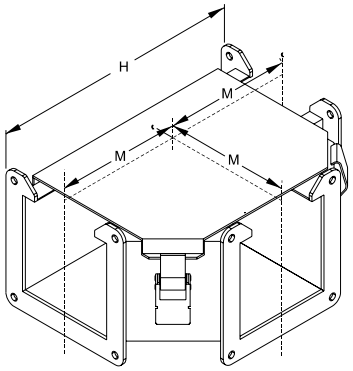
All dimensions in inches unless specified otherwise

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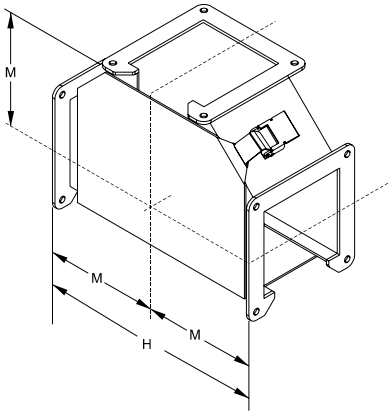
1485 Series Lay-In Wireway - NEMA 12



Tee Fitting Top Opening

Part No.	Size	H	M
1485BTN	2.5 x 2.5	8.50	4.25
1485CTN	4 x 4	10.00	5.00
1485DTN	6 x 6	12.00	6.00
1485ETN	8 x 8	14.00	7.00
1485FTN	12 x 6	18.00	9.00

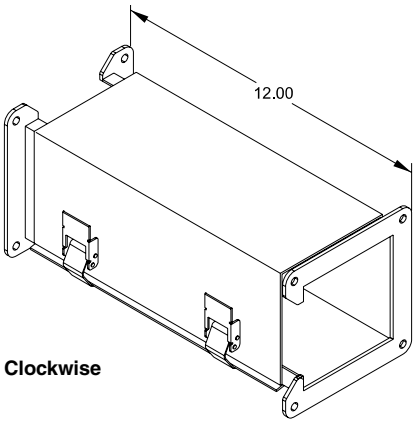
Two flat sealing plates included



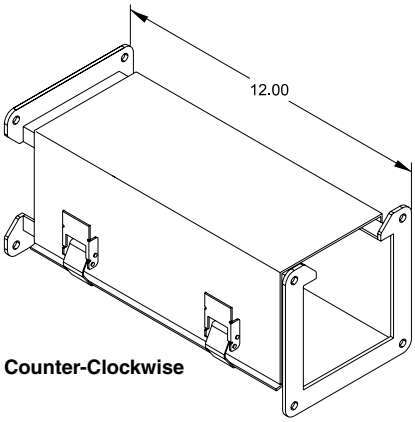
Tee Fitting Outside and Top Opening

Part No.	Size	H	M
1485BTQ	2.5 x 2.5	8.50	4.25
1485CTQ	4 x 4	10.00	5.00
1485DTQ	6 x 6	12.00	6.00
1485ETQ	8 x 8	14.00	7.00

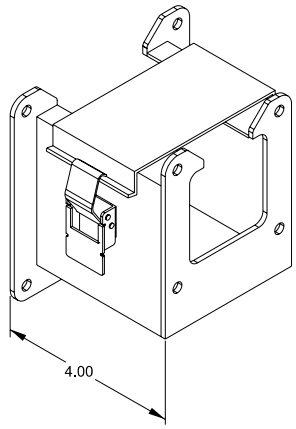
Two flat sealing plates included



Clockwise

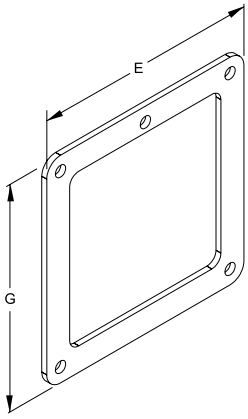


Counter-Clockwise



Reducers

Part No.	Reduces from	to
1485CRE	4 x 4	2.5 x 2.5
1485DRE	6 x 6	4 x 4
1485ERE	8 x 8	6 x 6
1485FREC	12 x 6	4 x 4
1485FRED	12 x 6	6 x 6



Box Connector

- Use inside box when entering with "Lay-In" Wireway.

Part No.	Size	E	G
1485BK	2.5 x 2.5	3.87	3.87
1485CK	4 x 4	5.37	5.37
1485DK	6 x 6	7.62	7.62
1485EK	8 x 8	9.62	9.62
1485FK	12 x 6	13.62	7.62

One angled sealing plate included

12" Transposition Sections Clockwise & Counter-Clockwise

- Used to rotate the open side of a wireway run by 90° and maintain the lay-in feature

Clockwise Part No.	Counter-Clockwise Part No.	Size
1485BZ12	**1485BZC12**	2.5 x 2.5
1485CZ12	**1485CZC12**	4 x 4
1485DZ12	**1485DZC12**	6 x 6
1485EZ12	**1485EZC12**	8 x 8

One flat sealing plate included

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

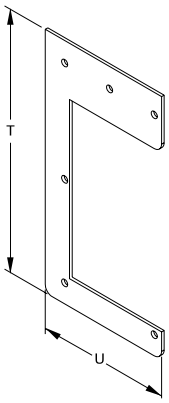
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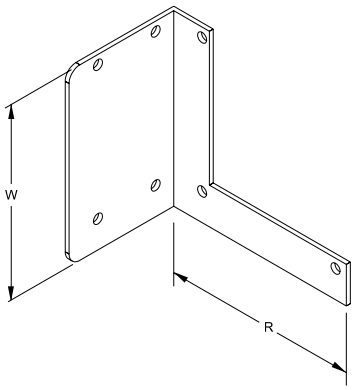
1485 Series Lay-In Wireway - NEMA 12



Drop Hanger

Part No.	Size	R	W
1485BL1	2.5 x 2.5	9.25	4.50
1485CL1	4 x 4	11.75	6.00
1485DL1	6 x 6	15.25	8.12
1485EL1	8 x 8	20.56	12.12

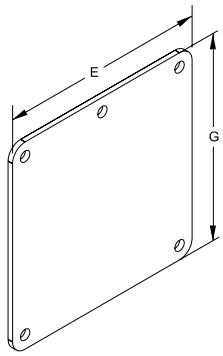
Does not meet CSA or UL requirements



Bracket Hanger

Part No.	Size	R	W
1485BL2	2.5 x 2.5	4.62	4.37
1485CL2	4 x 4	6.12	5.87
1485DL2	6 x 6	8.25	7.87
1485EL2	8 x 8	10.25	9.87

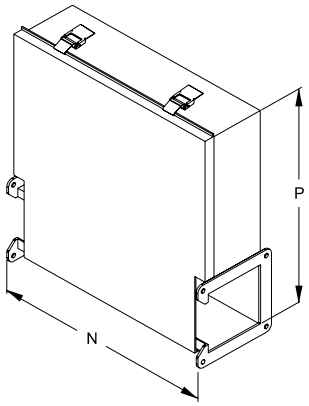
Does not meet CSA or UL requirements



Cover Plate

Part No.	Size	E	G
1485BH	2.5 x 2.5	3.87	3.87
1485CH	4 x 4	5.37	5.37
1485DH	6 x 6	7.62	7.62
1485EH	8 x 8	9.62	9.62
1485FH	12 x 6	13.62	7.62

One angled sealing plate included
Maintains ratings on CSA and UL approved wireway



Junction Box

- Includes inner panel.

Part No.	Size	N	P	Panel Size
1485BJ	2.5 x 2.5	12.00	10.25	8.75 x 6.87
1485CJ	4 x 4	14.00	13.87	10.75 x 8.87
1485DJ	6 x 6	16.00	17.87	12.75 x 10.87
1485EJ	8 x 8	18.00	21.87	14.75 x 12.87

One flat sealing plate included

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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1486 Series Wiring Trough - NEMA 12



Application
- Designed to enclose and protect multiple wiring junctions from dirt, dust, oil and water.

Standards
- UL 870 Type 1
- CSA Type 1
- **Complies with**
  - NEMA Type 12
  - JIC EGP-1-1967
  - JIC EMP-1-1967
  - IEC 60529, IP54

Construction
- Formed 14 gauge steel.
- Smooth continuously welded seams.
- Butt hinged cover is secured with easily operated screw clamps.
- Oil resistant gaskets are permanently secured.
- 12 gauge external mounting feet are welded to the back.

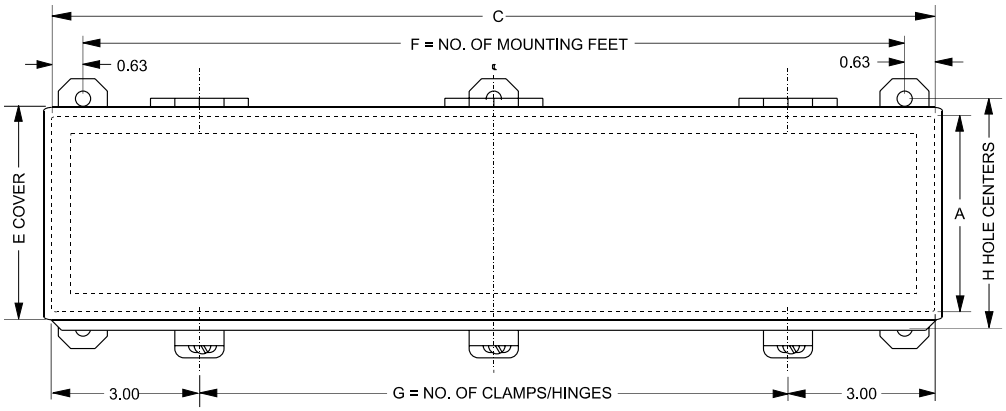
Finish
- Troughs and covers are finished in ANSI 61 gray powder coating.

Technical references and DXF downloads available at www.hammfg.com

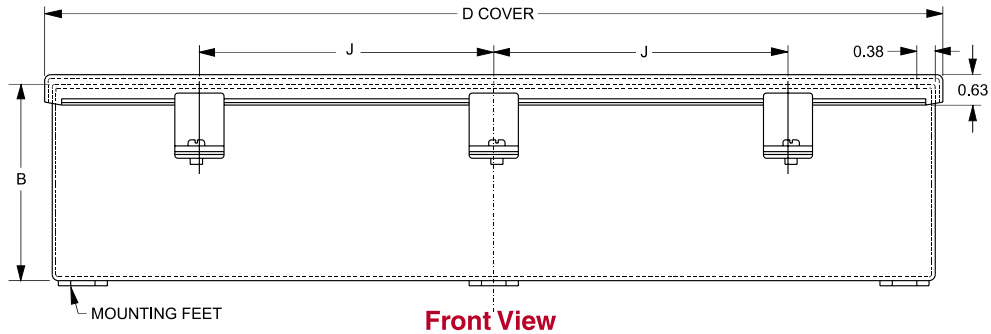
All dimensions in inches unless specified otherwise

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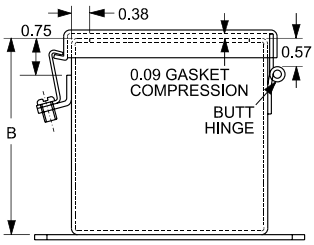
1486 Series Wiring Trough - NEMA 12



Top View



Front View



End View

Part No.	Cover Size									Ship Wt.
	Length									
	A	B	C	D	E	F	G	H	J	lbs.
1486B12	2.5	2.5	12	12.31	2.84	2	2	3.19	6.00	3
1486B18	2.5	2.5	18	18.31	2.84	2	2	3.19	12.00	5
1486B24	2.5	2.5	24	24.31	2.84	2	3	3.19	9.00	6
1486B30	2.5	2.5	30	30.31	2.84	2	3	3.19	12.00	9
1486B36	2.5	2.5	36	36.31	2.84	2	3	3.19	15.00	10
1486B48	2.5	2.5	48	48.31	2.84	2	3	3.19	21.00	13
1486B60	2.5	2.5	60	60.31	2.84	3	4	3.19	18.00	16
1486B72	2.5	2.5	72	72.31	2.84	3	4	3.19	22.00	19
1486C12	4.0	4.0	12	12.31	4.34	2	2	4.69	6.00	6
1486C18	4.0	4.0	18	18.31	4.34	2	2	4.69	12.00	8
1486C24	4.0	4.0	24	24.31	4.34	2	3	4.69	9.00	10
1486C30	4.0	4.0	30	30.31	4.34	2	3	4.69	12.00	13
1486C36	4.0	4.0	36	36.31	4.34	2	3	4.69	15.00	16
1486C48	4.0	4.0	48	48.31	4.34	2	3	4.69	21.00	20
1486C60	4.0	4.0	60	60.31	4.34	3	4	4.69	18.00	25
1486C72	4.0	4.0	72	72.31	4.34	3	4	4.69	22.00	30
1486D12	6.0	6.0	12	12.31	6.34	2	2	6.69	6.00	9
1486D18	6.0	6.0	18	18.31	6.34	2	2	6.69	12.00	16
1486D24	6.0	6.0	24	24.31	6.34	2	3	6.69	9.00	16
1486D30	6.0	6.0	30	30.31	6.34	2	3	6.69	12.00	19
1486D36	6.0	6.0	36	36.31	6.34	2	3	6.69	15.00	23
1486D48	6.0	6.0	48	48.31	6.34	2	3	6.69	21.00	29
1486D60	6.0	6.0	60	60.31	6.34	3	4	6.69	18.00	32
1486D72	6.0	6.0	72	72.31	6.34	3	4	6.69	22.00	43

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1487 Series Pull Through Wireway - NEMA 12



Application

- Designed to enclose and protect electrical wiring from dirt, dust, oil and water.
- Ideal for connecting machines to control panels or power sources.

Standards

- UL 870 Type 1 (unless marked[1])
- CSA Type 1 (unless marked[1])
- **Complies with**
  - NEMA Type 12
  - JIC EMP-1-1967
  - JIC EGP-1-1967
  - IEC 60529, IP54

Construction

- Bodies and covers are formed from 14 gauge steel with 10 gauge steel flanges.
- Smooth continuously welded seams.
- Interior surfaces are smooth to prevent wire damage during installation.
- Butt hinged covers are secured with easily operated screw clamps.
- Oil resistant gaskets are permanently secured.
- Solid oil resistant gaskets are used between flanges when sections and fittings are bolted together.
- One gasket kit, complete with hardware is provided with each straight section or fitting.

Finish

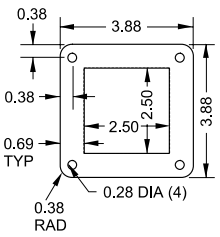
- Sections and fittings are finished in ANSI 61 gray.

Technical references and DXF downloads available at www.hammfg.com

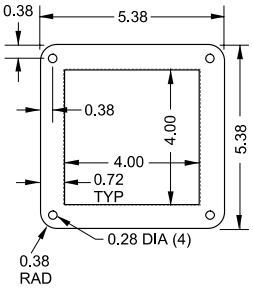
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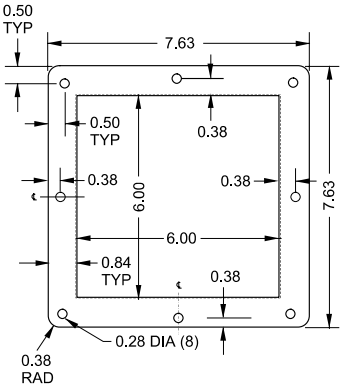
1487 Series Pull Through Wireway - NEMA 12



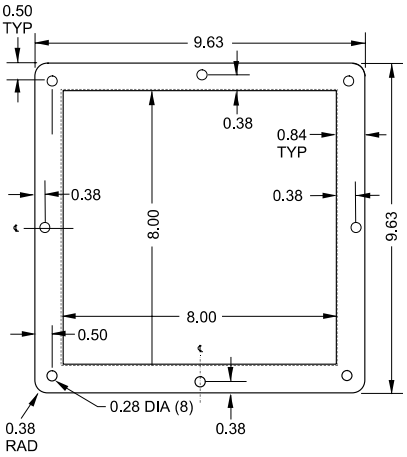
2.5 X 2.5



4 X 4



6 X 6



8 X 8

Description	2.5 x 2.5 Part No.	4 x 4 Part No.	6 x 6 Part No.	8 x 8 Part No.
12" Section	**1487B12**	**1487C12**	**1487D12**	**1487E12**
24" Section	**1487B24**	**1487C24**	**1487D24**	**1487E24**
36" Section	**1487B36**	**1487C36**	**1487D36**	**1487E36**
48" Section	**1487B48**	**1487C48**	**1487D48**	**1487E48**
60" Section	**1487B60**	**1487C60**	**1487D60**	**1487E60**
120" Section	**1487B120**	**1487C120**	**1487D120**	**1487E120**
60" Long Partition (Barrier)	—	**1487CB60**[1]	**1487DB60**[1]	**1487EB60**[1]
1" Nipple	**1487BM1**	**1487CM1**	**1487DM1**	**1487EM1**
2" Nipple	**1487BM2**	**1487CM2**	**1487DM2**	**1487EM2**
3" Nipple	**1487BM3**	**1487CM3**	**1487DM3**	**1487EM3**
6" Nipple	**1487BM6**	**1487CM6**	**1487DM6**	**1487EM6**
Box Entry Swivel Nipple	**1487BV1**	**1487CV1**	**1487DV1**	**1487EV1**
Standard Swivel Nipple	**1487BV2**	**1487CV2**	**1487DV2**	**1487EV2**
Flexible Fitting	**1485BFF**[1]	**1485CFF**[1]	**1485DFF**[1]	**1485EFF**[1]
Adjustable Fitting	**1487BX**[1]	**1487CX**[1]	**1487DX**[1]	**1487EX**[1]
Cut-Off Fitting	**1487BW**[1]	**1487CW**[1]	**1487DW**[1]	**1487EW**[1]
90° Elbow	**1487B9P**	**1487C9P**	**1487D9P**	**1487E9P**
45° Elbow	**1487B4P**	**1487C4P**	**1487D4P**	**1487E4P**
22.5° Elbow	**1487B2P**	**1487C2P**	**1487D2P**	**1487E2P**
Tee Fitting	**1487BT**	**1487CT**	**1487DT**	**1487ET**
Cross Fitting	**1487BY**	**1487CY**	**1487DY**	**1487EY**
Center Hole Reducers				
Reducer - 4 x 4 to 2.5 x 2.5	—	**1487CRC**[2]	—	—
Reducer - 6 x 6 to 4 x 4	—	—	**1487DRC**[2]	—
Reducer - 8 x 8 to 4 x 4	—	—	—	**1487ERCC**[2]
Reducer - 8 x 8 to 6 x 6	—	—	—	**1487ERCD**[2]
Edge Hole Reducers				
Reducer 4 x 4 to 2.5 x 2.5	—	**1487CRE**[2]	—	—
Reducer 6 x 6 to 4 x 4	—	—	**1487DRE**[2]	—
Reducer 8 x 8 to 4 x 4	—	—	—	**1487EREC**[2]
Reducer 8 x 8 to 6 x 6	—	—	—	**1487ERED**[2]
Box Connector	**1487BK**[1]	**1487CK**[1]	**1487DK**[1]	**1487EK**[1]
Drop Hanger	**1485BL1**[1]	**1485CL1**[1]	**1485DL1**[1]	**1485EL1**[1]
Bracket Hanger	**1485BL2**[1]	**1485CL2**[1]	**1485DL2**[1]	**1485EL2**[1]
Cover Plate	**1487BH**[2]	**1487CH**[2]	**1487DH**[2]	**1487EH**[2]
Gasket & Screws	**1487BS**[1]	**1487CS**[1]	**1487DS**[1]	**1487ES**[1]

[1] Does not meet CSA or UL requirements
[2] Maintains ratings on CSA and UL approved wireway

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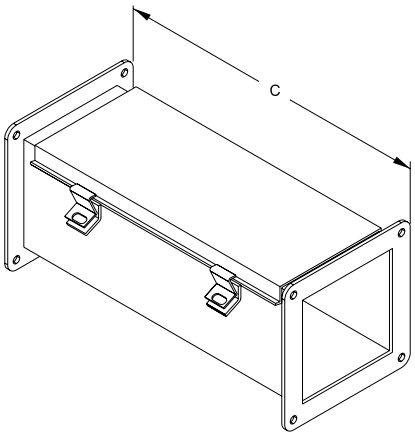
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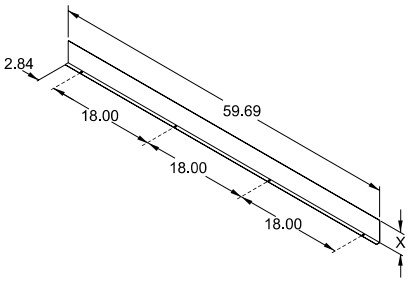
1487 Series Pull Through Wireway - NEMA 12



Typical Straight Section

C=12" Section Part No.	C=24" Section Part No.	C=36" Section Part No.	C=48" Section Part No.	C=60" Section Part No.	C=120" Section Part No.	Size
1487B12	**1487B24**	**1487B36**	**1487B48**	**1487B60**	**1487B120**	2.5 x 2.5
1487C12	**1487C24**	**1487C36**	**1487C48**	**1487C60**	**1487C120**	4 x 4
1487D12	**1487D24**	**1487D36**	**1487D48**	**1487D60**	**1487D120**	6 x 6
1487E12	**1487E24**	**1487E36**	**1487E48**	**1487E60**	**1487E120**	8 x 8

One flat sealing plate included

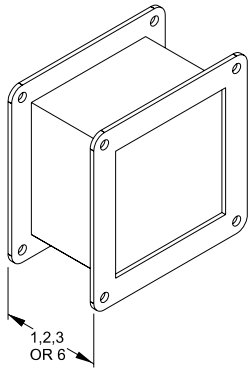


Partition (Barrier) Kit

- Divides wireway into two or more compartments. Barriers are fastened to wireway sections with screws.

Part No.	Size	X
1487CB60	4 x 4	3.72
1487DB60	6 x 6	5.72
1487EB60	8 x 8	7.72

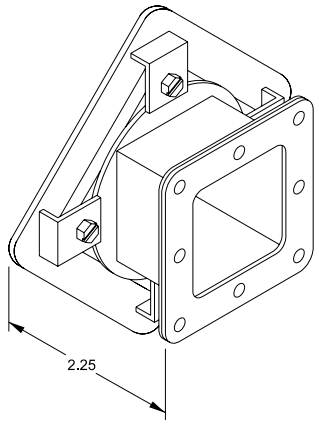
Does not meet CSA or UL requirements



Typical Nipple

1" Nipple Part No.	2" Nipple Part No.	3" Nipple Part No.	6" Nipple Part No.	Size
1487BM1	**1487BM2**	**1487BM3**	**1487BM6**	2.5 x 2.5
1487CM1	**1487CM2**	**1487CM3**	**1487CM6**	4 x 4
1487DM1	**1487DM2**	**1487DM3**	**1487DM6**	6 x 6
1487EM1	**1487EM2**	**1487EM3**	**1487EM6**	8 x 8

One flat sealing plate included



Box Entry or Standard Swivel Nipple

Box Entry Swivel Nipple Part No.	Standard Swivel Nipple Part No.	Size
1487BV1[1]	**1487BV2**[2]	2.5 x 2.5
1487CV1[1]	**1487CV2**[2]	4 x 4
1487DV1[1]	**1487DV2**[2]	6 x 6
1487EV1[1]	**1487EV2**[2]	8 x 8

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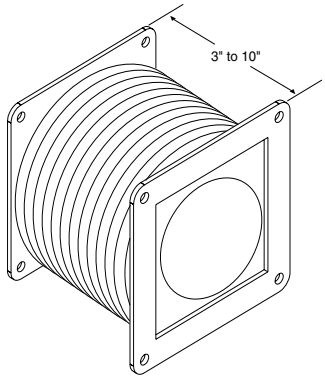
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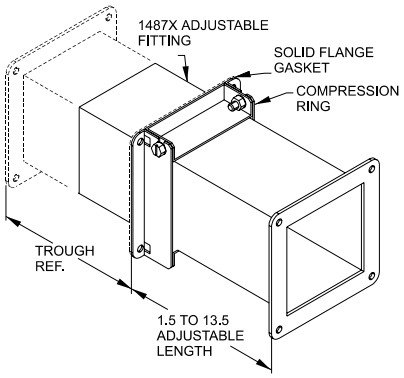
1487 Series Pull Through Wireway - NEMA 12



Flexible Fitting

- Allows for easy alignment of sections or fittings
- Metal flanges
- Flexible synthetic "bellows" middle section

Part No.	A	B
1485BFF	2.5	2.5
1485CFF	4	4
1485DFF	6	6
1485EFF	8	8

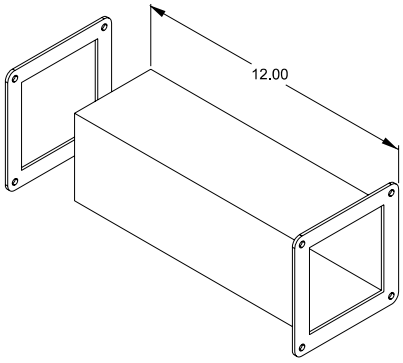


Adjustable Fitting

- Allows on site length adjustment of 1.5" to 13.5"

Part No.	Size
1487BX	2.5 x 2.5
1487CX	4 x 4
1487DX	6 x 6
1487EX	8 x 8

Does not meet CSA or UL requirements

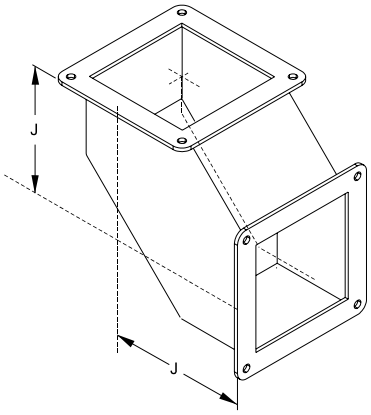


Cut-Off Fitting (Lay-In)

- Body comes in two pieces. Cut-off one piece, shorten cover, and weld together.
- Includes angle sealing plate.

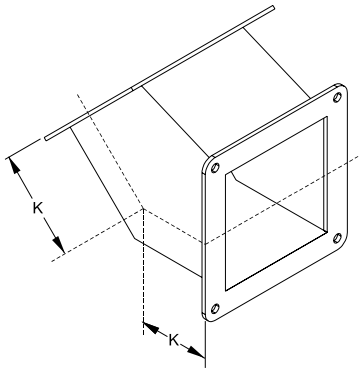
Part No.	Size
1487BW	2.5 x 2.5
1487CW	4 x 4
1487DW	6 x 6
1487EW	8 x 8

Does not meet CSA or UL requirements



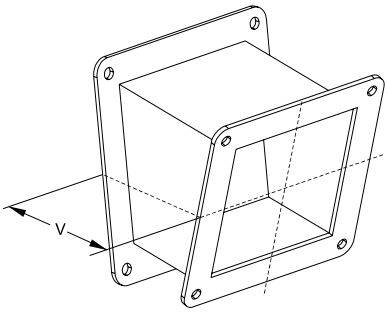
90° Elbow

Part No.	Size	J
1487B9P	2.5 x 2.5	4.25
1487C9P	4 x 4	5.00
1487D9P	6 x 6	6.00
1487E9P	8 x 8	7.00



45° Elbow

Part No.	Size	K
1487B4P	2.5 x 2.5	1.98
1487C4P	4 x 4	2.42
1487D4P	6 x 6	3.00
1487E4P	8 x 8	3.62



22.5° Elbow

Part No.	Size	V
1487B2P	2.5 x 2.5	3.18
1487C2P	4 x 4	3.75
1487D2P	6 x 6	4.43
1487E2P	8 x 8	5.12

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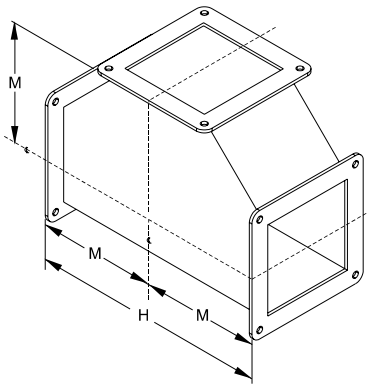
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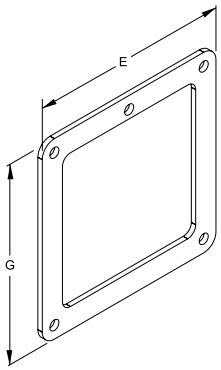
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1487 Series Pull Through Wireway - NEMA 12



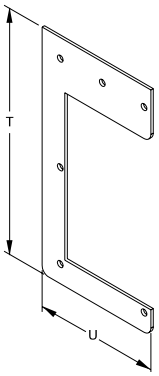
Tee Fitting

Part No.	Size	H	M
1487BT	2.5 x 2.5	8.50	4.25
1487CT	4 x 4	10.00	5.00
1487DT	6 x 6	12.00	6.00
1487ET	8 x 8	14.00	7.00



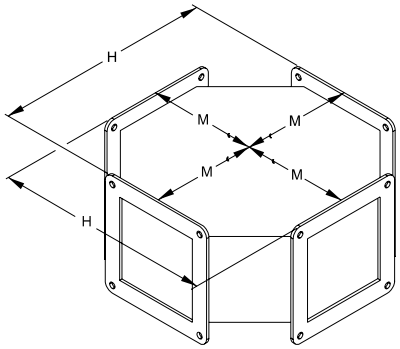
Box Connector

Part No.	Size	E	G
1487BK	2.5 x 2.5	3.87	3.87
1487CK	4 x 4	5.37	5.37
1487DK	6 x 6	7.62	7.62
1487EK	8 x 8	9.62	9.62



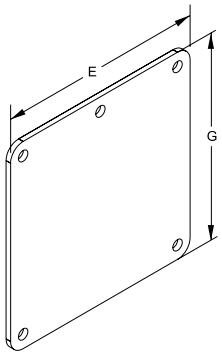
Drop Hanger

Part No.	Size	T	U
1485BL1	2.5 x 2.5	9.25	4.50
1485CL1	4 x 4	11.75	6.00
1485DL1	6 x 6	15.25	8.12
1485EL1	8 x 8	20.56	12.12



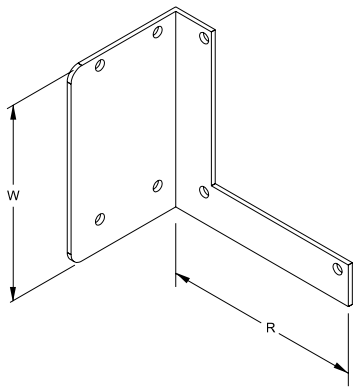
Cross Fitting

Part No.	Size	H	M
1487BY	2.5 x 2.5	8.50	4.25
1487CY	4 x 4	10.00	5.00
1487DY	6 x 6	12.00	6.00
1487EY	8 x 8	14.00	7.00



Cover Plate

Part No.	Size	E	G
1487BH	2.5 x 2.5	3.87	3.87
1487CH	4 x 4	5.37	5.37
1487DH	6 x 6	7.62	7.62
1487EH	8 x 8	9.62	9.62



Bracket Hanger

Part No.	Size	R	W
1485BL2	2.5 x 2.5	4.62	4.37
1485CL2	4 x 4	6.12	5.87
1485DL2	6 x 6	8.25	7.87
1485EL2	8 x 8	10.25	9.87

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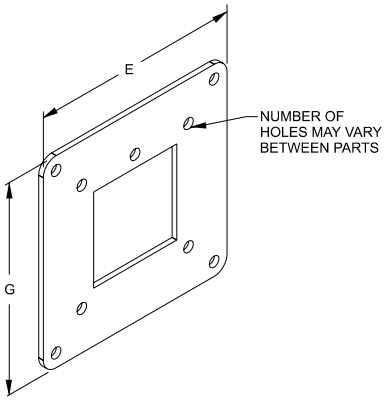
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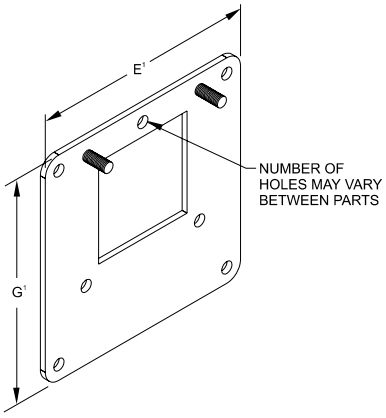
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1487 Series Pull Through Wireway - NEMA 12



Reducers (Center Hole)

Part No.	Reduces from	to	E	G
1487CRC	4 x 4	2.5 x 2.5	5.37	5.37
1487DRC	6 x 6	4 x 4	7.62	7.62
1487ERCC	8 x 8	4 x 4	9.62	9.62
1487ERCD	8 x 8	6 x 6	9.62	9.62



Reducers (Edge Hole)

Part No.	Reduces from	to	E	G
1487CRE	4 x 4	2.5 x 2.5	5.37	5.37
1487DRE	6 x 6	4 x 4	7.62	7.62
1487EREC	8 x 8	4 x 4	9.62	9.62
1487ERED	8 x 8	6 x 6	9.62	9.62

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

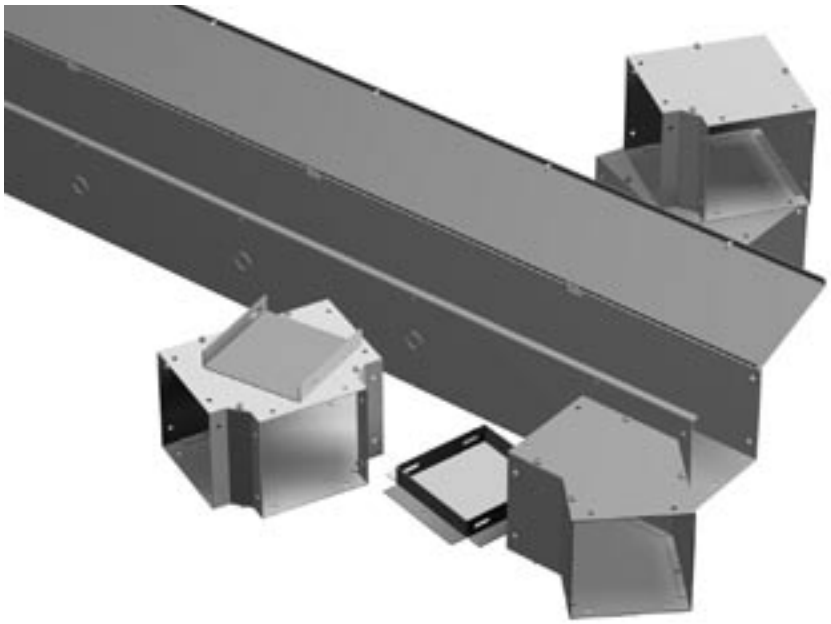
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Lay In Wireway

NEMA 1



Application

- Construction designed to ensure electrical continuity and to permit fast and easy indoor installation of multiple wireway runs.

Standards

- UL-50 Type 1
- cUL Type 1
- Complies with
  - IEC 6029, IP20

Construction

- Formed from 16 or 14 gauge steel.
- Hinged covers and Joiners make it possible to lay in continuous run of cables.
- Covers are hinged on 24” centers (max)
- A standard 1/4” wrench or socket is the only tool required for assembly.
- Adequate concentric knockouts (1/2”, 3/4” conduit size) are standard on straight lengths.
- Knockouts are on 12” centers.
- Barriers to separate different cable voltages are available as an accessory.
- Unobstructed interior speeds up laying of cables.
- Joiner included with the straight sections.
- Optional hanger brackets allow for vertical and horizontal mounting.

Finish

- Sections and components are finished in ANSI 61 gray.
- Couplings are unpainted galvanized.

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Lay In Wireway
NEMA 1

	2.5 x 2.5	4 x 4	6 x 6	8 x 8
Straight Section 12”	**CWST212**	**CWST412**	**CWST612**	**CWST812**
Straight Section 24”	**CWST224**	**CWST424**	**CWST624**	**CWST824**
Straight Section 36”	**CWST236**	**CWST436**	**CWST636**	**CWST836**
Straight Section 48”	**CWST248**	**CWST448**	**CWST648**	**CWST848**
Straight Section 60”	**CWST260**	**CWST460**	**CWST660**	**CWST860**
Straight Section 72”	**CWST272**	**CWST472**	**CWST672**	**CWST872**
Straight Section 96”	**CWST296**	**CWST496**	**CWST696**	**CWST896**
Straight Section 120”	**CWST2120**	**CWST4120**	**CWST6120**	**CWST8120**
Straight Section Barrier 12”	**CWBA212**	**CWBA412**	**CWBA612**	**CWBA812**
Straight Section Barrier 24”	**CWBA224**	**CWBA424**	**CWBA624**	**CWBA824**
Straight Section Barrier 36”	**CWBA236**	**CWBA436**	**CWBA636**	**CWBA836**
Straight Section Barrier 48”	**CWBA248**	**CWBA448**	**CWBA648**	**CWBA848**
Straight Section Barrier 60”	**CWBA260**	**CWBA460**	**CWBA660**	**CWBA860**
Straight Section Barrier 72”	**CWBA272**	**CWBA472**	**CWBA672**	**CWBA872**
Straight Section Barrier 96”	**CWBA296**	**CWBA496**	**CWBA696**	**CWBA896**
Straight Section Barrier 120”	**CWBA2120**	**CWBA4120**	**CWBA6120**	**CWBA8120**
Elbow 90 degrees	**CWEL290**	**CWEL490**	**CWEL690**	**CWEL890**
Elbow 45 degrees	**CWEL245**	**CWEL445**	**CWEL645**	**CWEL845**
Elbow 22.5 degrees	**CWEL222**	**CWEL422**	**CWEL622**	**CWEL822**
Tee Fitting	**CWTF2**	**CWTF4**	**CWTF6**	**CWTF8**
Cross Fitting	**CWCF2**	**CWCF4**	**CWCF6**	**CWCF8**
Reducer 4 x 4 to 2.5 x 2.5	-	**CWRD42**	-	-
Reducer 6 x 6 to 4 x 4	-	-	**CWRD64**	-
Reducer 8 x 8 to 6 x 6	-	-	-	**CWRD86**
Bracket Hanger Ceiling Type	**CWHD2**	**CWHD4**	**CWHD6**	**CWHD8**
Bracket Hanger Wall Type	**CWHW2**	**CWHW4**	**CWHW6**	**CWHW8**
Closing Plate	**CWCP2**	**CWCP4**	**CWCP6**	**CWCP8**
Adapter (Box Connector)	**CWAD2**	**CWAD4**	**CWAD6**	**CWAD8**
Joiner	**CWJO2**	**CWJO4**	**CWJO6**	**CWJO8**
Telescope Fitting	**CWTL2**	**CWTL4**	**CWTL6**	**CWTL8**

Technical references and DXF downloads available at www.hammfg.com

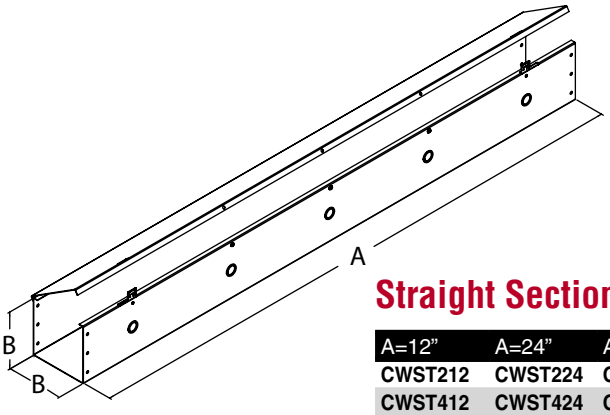
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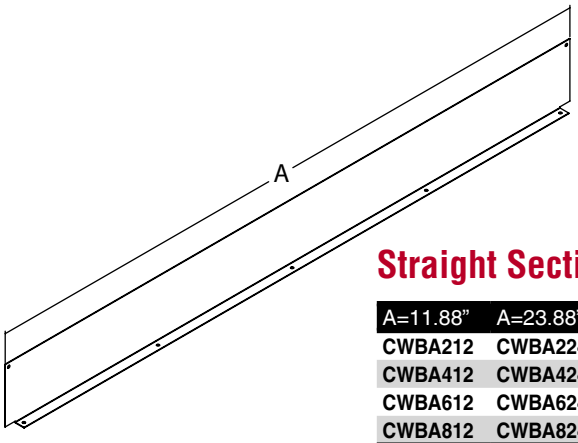
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Lay In Wireway
NEMA 1



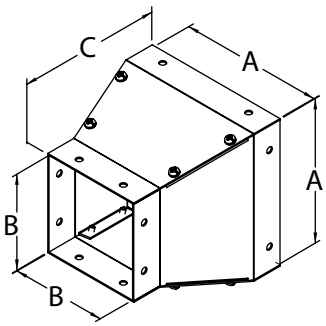
Straight Section

A=12"	A=24"	A=36"	A=48"	A=60"	A=72"	A=96"	A=120"	B
CWST212	CWST224	CWST236	CWST248	CWST260	CWST272	CWST296	CWST2120	2.5
CWST412	CWST424	CWST436	CWST448	CWST460	CWST472	CWST496	CWST4120	4
CWST612	CWST624	CWST636	CWST648	CWST660	CWST672	CWST696	CWST6120	6
CWST812	CWST824	CWST836	CWST848	CWST860	CWST872	CWST896	CWST8120	8



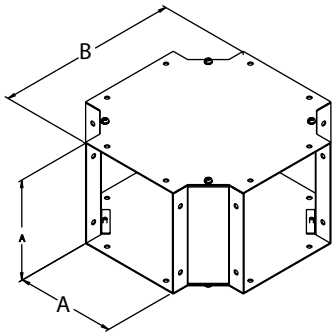
Straight Section Barrier

A=11.88"	A=23.88"	A=35.88"	A=47.88"	A=59.88"	A=71.88"	A=95.88"	A=119.88"	B
CWBA212	CWBA224	CWBA236	CWBA248	CWBA260	CWBA272	CWBA296	CWBA2120	2.5
CWBA412	CWBA424	CWBA436	CWBA448	CWBA460	CWBA472	CWBA496	CWBA4120	4
CWBA612	CWBA624	CWBA636	CWBA648	CWBA660	CWBA672	CWBA696	CWBA6120	6
CWBA812	CWBA824	CWBA836	CWBA848	CWBA860	CWBA872	CWBA896	CWBA8120	8



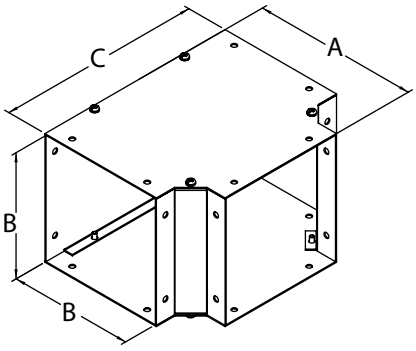
Reducer

Part No.	Size	A	B	C
CWRD42	4 x 4 to 2.5 x 2.5	4.0	2.5	6.0
CWRD64	6 x6 to 4 x 4	6.0	4.0	6.0
CWRD86	8 x8 to 6 x 6	8.0	6.0	6.0



Cross Fitting

Part No.	A	B
CWCF2	2.5	7.5
CWCF4	4	9
CWCF6	6	11
CWCF8	8	13



Tee Fitting

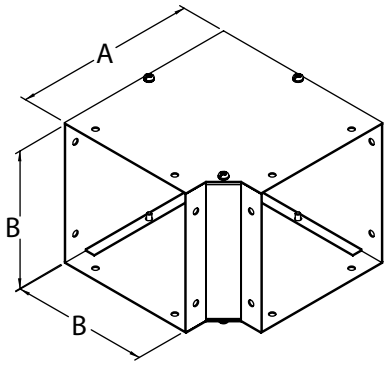
Part No.	A	B	C
CWTF2	4.5	2.5	6.386
CWTF4	6	4	7.886
CWTF6	8	6	9.886
CWFT8	10	8	11.856

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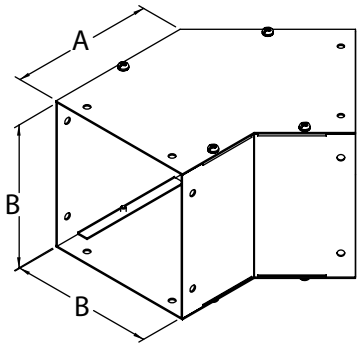
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Lay In Wireway
NEMA 1



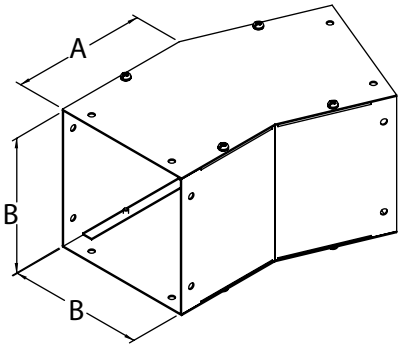
Elbow 90°

Part No.	A	B
CWEL290	4.5	2.5
CWEL490	6	4
CWEL690	8	6
CWEL890	10	8



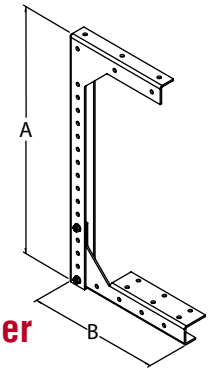
Elbow 45°

Part No.	A	B
CWEL245	2.5	2.5
CWEL445	4	4
CWEL645	6	6
CWEL845	8	8



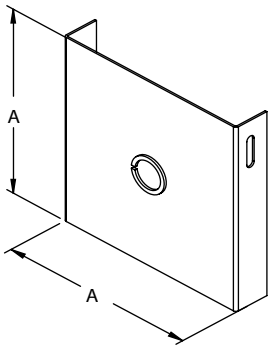
Elbow 22.5°

Part No.	A	B
CWEL222	2.5	2.5
CWEL422	4	4
CWEL622	6	6
CWEL822	8	8



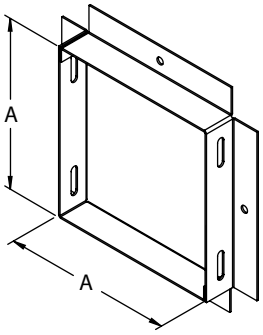
Bracket Hanger Ceiling Type

Part No.	A (max.)	B
CWHD2	12	6.625
CWHD4	15	8.125
CWHD6	19	10.125
CWHD8	23	12.125



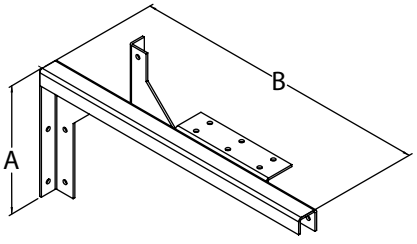
Closing Plate

Part No.	A	Knockout
CWCP2	2.4	1.75
CWCP4	3.9	1.75
CWCP6	5.9	1.75
CWCP8	7.9	1.75



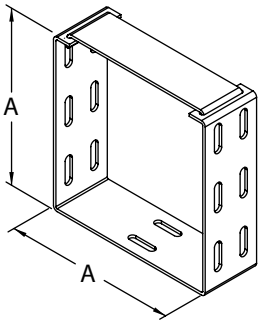
Adapter (Box Connector)

Part No.	A
CWAD2	2.4
CWAD4	3.9
CWAD6	5.9
CWAD8	7.9



Bracket Hanger Wall Type

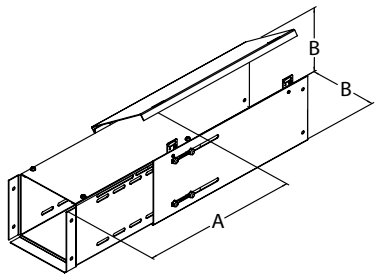
Part No.	A	B
CWHW2	4.625	12.0
CWHW4	6.125	15.0
CWHW6	8.125	19.0
CWHW8	10.125	23.0



Joiner

Part No.	A
CWJO2	2.5
CWJO4	4.0

Part No.	A
CWJO6	6.0
CWJO8	8.0



Telescope Fitting

Part No.	A	B
CWTL2	14	2.5
CWTL4	14	4
CWTL6	14	6
CWTL8	14	8

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Commercial Enclosures


C-Box Screw Cover with Knockouts - NEMA 1 ..... **342**


C-Box Screw Cover without Knockouts - NEMA 1 ..... **344**


C-Box Hinged Cover with Knockouts - NEMA 1 ..... **346**


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C-Box Screw Cover with Knockouts

NEMA 1



Application

- Designed for general purpose indoor commercial use as a junction, pull or switch box.

Standards

- UL-50 Type 1
- cUL Type 1
- **Complies with:**
  - NEMA Type 1
  - IEC 60529, IP20

Construction

- Formed and spot welded from 16 or 14 gauge steel depending on size.
- Flat steel covers fastened with plated steel screws.
- Keyhole slots permit cover to be lifted off without removing screws entirely.
- Easily removed knockouts on all 4 sides (see drawings for sizes and locations).
- Through holes in back for wall mounting.
- Grounding location embossed in body.

Finish

- Enclosure and cover are finished in ANSI 61 gray powder coating.

Part No.	Overall Dimensions A	B	C	Mtg. Centers D	E	F	G	Knockout Pattern Sides	H	Knockout Pattern Top & Bottom	Ship Wt. lbs.
CSKO443	4	4	3	2.25	3.00	0.88	0.50	B - C	0.28	A - B	2
CSKO663	6	6	3	3.00	5.00	1.50	0.50	B - C - D	0.28	B - C - D	3
CSKO863	8	6	3	5.00	5.00	1.50	0.50	F - G - H - I	0.28	B - C - D	3
CSKO16143	16	14	3	13.00	13.00	1.50	0.50	B - C - D - E - F - G - H	0.28	B - C - D - E - F - G - H	12
CSKO18143	18	14	3	15.00	13.00	1.50	0.50	A - B - C - D - E - F - G - H - I	0.28	B - C - D - E - F - G - H	13
CSKO20143	20	14	3	17.00	13.00	1.50	0.50	A - B - C - D - E - F - G - H - I	0.28	B - C - D - E - F - G - H	13
CSKO444	4	4	4	2.25	3.00	0.88	0.50	B - C	0.28	A - B	2
CSKO644	6	4	4	3.00	3.00	1.50	0.50	B - C - D	0.28	A - B	3
CSKO664	6	6	4	3.00	5.00	1.50	0.50	B - C - D	0.28	B - C - D	3
CSKO864	8	6	4	5.00	5.00	1.50	0.50	F - G - H - I	0.28	B - C - D	5
CSKO884	8	8	4	5.00	7.00	1.50	0.50	F - G - H - I	0.28	F - G - H - I	5
CSKO1084	10	8	4	7.00	7.00	1.50	0.50	F - G - H - I	0.28	F - G - H - I	6
CSKO10104	10	10	4	7.00	9.00	1.50	0.50	F - G - H - I	0.28	C - D - E - F - G	6
CSKO1284	12	8	4	9.00	7.00	1.50	0.50	C - D - E - F - G	0.28	F - G - H - I	7
CSKO12104	12	10	4	9.00	9.00	1.50	0.50	C - D - E - F - G	0.28	C - D - E - F - G	8
CSKO12124	12	12	4	9.00	11.00	1.50	0.50	C - D - E - F - G	0.28	C - D - E - F - G	9
CSKO16124	16	12	4	13.00	11.00	1.50	0.50	B - C - D - E - F - G - H	0.28	C - D - E - F - G	12
CSKO18124	18	12	4	15.00	11.00	1.50	0.50	A - B - C - D - E - F - G - H - I	0.28	C - D - E - F - G	12
CSKO18184	18	18	4	15.00	17.00	1.50	0.50	A - B - C - D - E - F - G - H - I	0.28	A - B - C - D - E - F - G - H - I	16
CSKO24244	24	24	4	21.00	23.00	1.50	0.50	C - D - E - F - G	0.28	C - D - E - F - G	33

Chart continued on next page....

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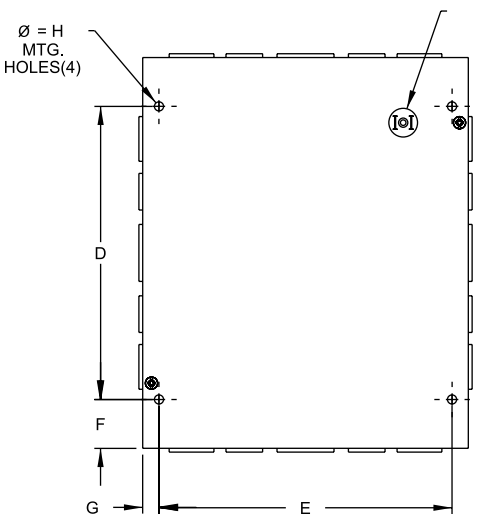
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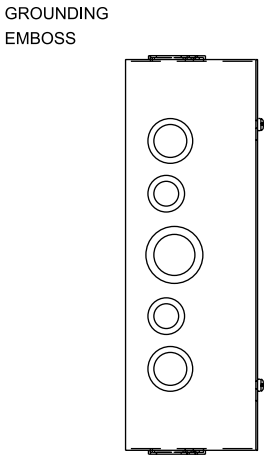
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C-Box Screw Cover with Knockouts

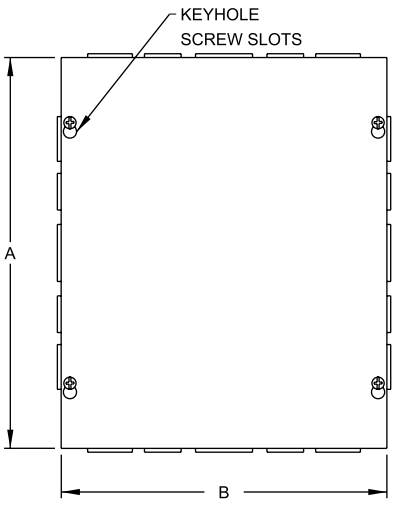
NEMA 1



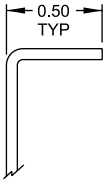


Side View

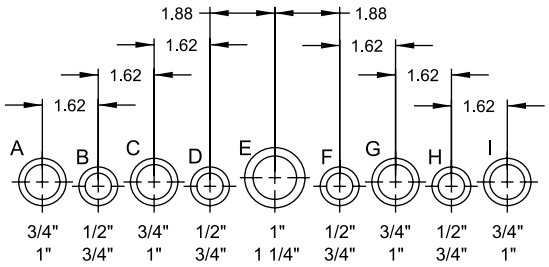
See knockout pattern in table below



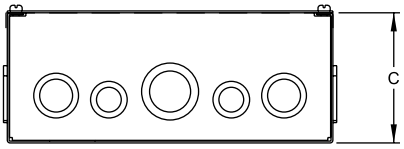
Front View



Body Flange Detail



Conduit Sizes



Bottom View

See knockout pattern in table below

Part No.	Overall Dimensions A	B	C	Mtg. Centers D	E	F	G	Knockout Pattern Sides	H	Knockout Pattern Top & Bottom	Ship Wt. lbs.
CSKO666	6	6	6	3.00	5.00	1.50	0.50	B - C - D	0.28	B - C - D	4
CSKO886	8	8	6	5.00	7.00	1.50	0.50	F - G - H - I	0.28	F - G - H - I	6
CSKO1086	10	8	6	7.00	7.00	1.50	0.50	F - G - H - I	0.28	F - G - H - I	7
CSKO10106	10	10	6	7.00	9.00	1.50	0.50	F - G - H - I	0.28	C - D - E - F - G	8
CSKO12106	12	10	6	9.00	9.00	1.50	0.50	C - D - E - F - G	0.28	C - D - E - F - G	9
CSKO12126	12	12	6	9.00	11.00	1.50	0.50	C - D - E - F - G	0.28	C - D - E - F - G	10
CSKO16126	16	12	6	13.00	11.00	1.50	0.50	B - C - D - E - F - G - H	0.28	C - D - E - F - G	13
CSKO16166	16	16	6	13.00	15.00	1.50	0.50	B - C - D - E - F - G - H	0.28	B - C - D - E - F - G - H	16
CSKO18126	18	12	6	15.00	11.00	1.50	0.50	A - B - C - D - E - F - G - H - I	0.28	C - D - E - F - G	14
CSKO18186	18	18	6	15.00	17.00	1.50	0.50	A - B - C - D - E - F - G - H - I	0.28	A - B - C - D - E - F - G - H - I	19
CSKO24186	24	18	6	21.00	17.00	1.50	0.50	A - B - C - D - E - F - G - H - I	0.28	A - B - C - D - E - F - G - H - I	26
CSKO24246	24	24	6	21.00	22.50	1.50	0.75	A - B - C - D - E - F - G - H - I	0.44	A - B - C - D - E - F - G - H - I	37
CSKO30246	30	24	6	27.00	22.50	1.50	0.75	A - B - C - D - E - F - G - H - I	0.44	A - B - C - D - E - F - G - H - I	45
CSKO36246	36	24	6	33.00	22.50	1.50	0.75	A - B - C - D - E - F - G - H - I	0.44	A - B - C - D - E - F - G - H - I	57
CSKO12128	12	12	8	9.00	11.00	1.50	0.50	C - D - E - F - G	0.28	C - D - E - F - G	12
CSKO16168	16	16	8	13.00	15.00	1.50	0.50	B - C - D - E - F - G - H	0.28	B - C - D - E - F - G - H	20
CSKO24248	24	24	8	21.00	22.50	1.50	0.75	A - B - C - D - E - F - G - H - I	0.44	A - B - C - D - E - F - G - H - I	44
CSKO202010	20	20	10	17.00	19.00	1.50	0.75	A - B - C - D - E - F - G - H - I	0.28	A - B - C - D - E - F - G - H - I	37
CSKO242410	24	24	10	21.00	22.50	1.50	0.50	A - B - C - D - E - F - G - H - I	0.44	A - B - C - D - E - F - G - H - I	52
CSKO302010	30	20	10	27.00	18.50	1.50	0.75	A - B - C - D - E - F - G - H - I	0.44	A - B - C - D - E - F - G - H - I	59
CSKO362410	36	24	10	33.00	22.50	1.50	0.75	A - B - C - D - E - F - G - H - I	0.44	A - B - C - D - E - F - G - H - I	75

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C-Box Screw Cover without Knockouts

NEMA 1



Application

- Designed for general purpose in-door commercial use as a junction, pull or switch box.

Standards

- UL-50 Type 1
- UL Type 1
- **Complies with**
  - NEMA Type 1
  - IEC 60529, IP20

Construction

- Formed and spot welded from 16, 14 or 12 gauge steel depending on size.
- Flat steel covers fastened with plated steel screws.
- Keyhole slots permit cover to be lifted off without removing screws entirely.
- Through holes in back for wall mounting.
- Grounding location embossed in body.

Finish

- Enclosure and cover are finished in ANSI 61 gray powder coating.

Part No.	Overall Dimensions A	B	C	Mtg. Centers D	E	F	G	H	Ship Wt. lbs.
CS443	4	4	3	2.25	3.00	0.88	0.50	0.28	2
CS663	6	6	3	3.00	5.00	1.50	0.50	0.28	3
CS863	8	6	3	5.00	5.00	1.50	0.50	0.28	3
CS16143	16	14	3	13.00	13.00	1.50	0.50	0.28	12
CS18143	18	14	3	15.00	13.00	1.50	0.50	0.28	13
CS20143	20	14	3	17.00	13.00	1.50	0.50	0.28	13
CS444	4	4	4	2.25	3.00	0.88	0.50	0.28	2
CS644	6	4	4	3.00	3.00	1.50	0.50	0.28	3
CS664	6	6	4	3.00	5.00	1.50	0.50	0.28	3
CS864	8	6	4	5.00	5.00	1.50	0.50	0.28	5
CS884	8	8	4	5.00	7.00	1.50	0.50	0.28	5
CS1084	10	8	4	7.00	7.00	1.50	0.50	0.28	6
CS10104	10	10	4	7.00	9.00	1.50	0.50	0.28	6
CS1284	12	8	4	9.00	7.00	1.50	0.50	0.28	7
CS12104	12	10	4	9.00	9.00	1.50	0.50	0.28	8
CS12124	12	12	4	9.00	11.00	1.50	0.50	0.28	9
CS16124	16	12	4	13.00	11.00	1.50	0.50	0.28	12
CS18124	18	12	4	15.00	11.00	1.50	0.50	0.28	12
CS18184	18	18	4	15.00	17.00	1.50	0.50	0.28	16
CS24244	24	24	4	21.00	23.00	1.50	0.50	0.28	33
CS666	6	6	6	3.00	5.00	1.50	0.50	0.28	4
CS886	8	8	6	5.00	7.00	1.50	0.50	0.28	6

Chart continued on next page....

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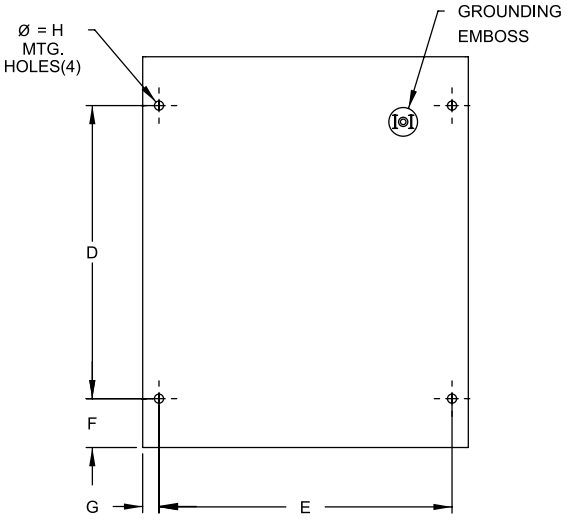
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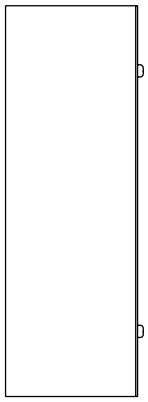
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C-Box Screw Cover without Knockouts

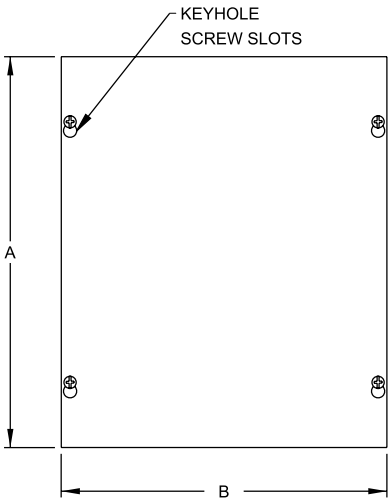
NEMA 1



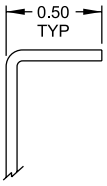
Rear View



Side View



Front View



Body Flange Detail



Bottom View

Part No.	Overall Dimensions A	B	C	Mtg. Centers D	E	F	G	H	Ship Wt. lbs.
CS1086	10	8	6	7.00	7.00	1.50	0.50	0.28	7
CS10106	10	10	6	7.00	9.00	1.50	0.50	0.28	8
CS12106	12	10	6	9.00	9.00	1.50	0.50	0.28	8
CS12126	12	12	6	9.00	11.00	1.50	0.50	0.28	9
CS16126	16	12	6	13.00	11.00	1.50	0.50	0.28	13
CS16166	16	16	6	13.00	15.00	1.50	0.50	0.28	16
CS18126	18	12	6	15.00	11.00	1.50	0.50	0.28	14
CS18186	18	18	6	15.00	17.00	1.50	0.50	0.28	19
CS24186	24	18	6	21.00	17.00	1.50	0.50	0.28	26
CS24246	24	24	6	21.00	22.50	1.50	0.75	0.44	37
CS30246	30	24	6	27.00	22.50	1.50	0.75	0.44	45
CS36246	36	24	6	33.00	22.50	1.50	0.75	0.44	57
CS36366	36	36	6	33.00	34.50	1.50	0.75	0.44	70
CS12128	12	12	8	9.00	11.00	1.50	0.50	0.28	12
CS16168	16	16	8	13.00	15.00	1.50	0.50	0.28	18
CS18188	18	18	8	15.00	17.00	1.50	0.50	0.28	21
CS24248	24	24	8	21.00	22.50	1.50	0.75	0.44	42
CS36248	36	24	8	33.00	22.50	1.50	0.75	0.44	65
CS202010	20	20	10	17.00	19.00	1.50	0.75	0.44	35
CS242410	24	24	10	21.00	22.50	1.50	0.50	0.28	49
CS302010	30	20	10	27.00	18.50	1.50	0.75	0.44	55
CS362410	36	24	10	33.00	22.50	1.50	0.75	0.44	70
CS363612	36	36	12	33.00	34.50	1.50	0.75	0.44	88

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C-Box Hinged Cover with Knockouts

NEMA 1



Application

- Designed for general purpose indoor commercial use as a junction, pull or switch box.
- Hinged cover with latch provides easy access during installation and maintenance.

Standards

- UL-50 Type 1
- cUL Type 1
- **Complies with**
  - NEMA Type 1
  - IEC 60529, IP30

Construction

- Formed and spot welded from 16 or 14 gauge steel depending on size.
- Formed steel covers close by use of slotted quarter turn latch.
- Full swing door using butt hinges.
- Easily removed knockouts on all 4 sides (see drawings for sizes and locations).
- Through holes in back for wall mounting.
- Grounding location embossed in body.

Finish

- Enclosure and cover are finished in ANSI 61 gray powder coating.

Accessories

- N1JLK Lock Kit...*see page* **428**

Part No.	Overall Dimensions A	B	C	Meeting Centers D	E	F	G	Knockout Pattern Sides	Knockout Pattern Top & Bottom	Ship Wt. lbs.
CHKO663	6	6	3.5	3.00	5.00	0.50	0.28	B - C - D	B - C - D	3
CHKO644	6	4	4	3.00	3.00	0.50	0.28	B - C - D	A - B	3
CHKO664	6	6	4	3.00	5.00	0.50	0.28	B - C - D	B - C - D	3
CHKO864	8	6	4	5.00	5.00	0.50	0.28	F - G - H - I	B - C - D	4
CHKO884	8	8	4	5.00	7.00	0.50	0.28	F - G - H - I	F - G - H - I	5
CHKO1084	10	8	4	7.00	7.00	0.50	0.28	F - G - H - I	F - G - H - I	6
CHKO10104	10	10	4	7.00	9.00	0.50	0.28	F - G - H - I	C - D - E - F - G	7
CHKO1284	12	8	4	9.00	7.00	0.50	0.28	C - D - E - F - G	F - G - H - I	8
CHKO12104	12	10	4	9.00	9.00	0.50	0.28	C - D - E - F - G	C - D - E - F - G	8
CHKO12124	12	12	4	9.00	11.00	0.50	0.28	C - D - E - F - G	C - D - E - F - G	9
CHKO16124	16	12	4	13.00	11.00	0.50	0.28	B - C - D - E - F - G - H	C - D - E - F - G	12
CHKO18124	18	12	4	15.00	11.00	0.50	0.28	A - B - C - D - E - F - G - H - I	C - D - E - F - G	12
CHKO666	6	6	6	3.00	5.00	0.50	0.28	B - C - D	B - C - D	4
CHKO886	8	8	6	5.00	7.00	0.50	0.28	F - G - H - I	F - G - H - I	6
CHKO1086	10	8	6	7.00	7.00	0.50	0.28	F - G - H - I	F - G - H - I	7

Chart continued on next page....

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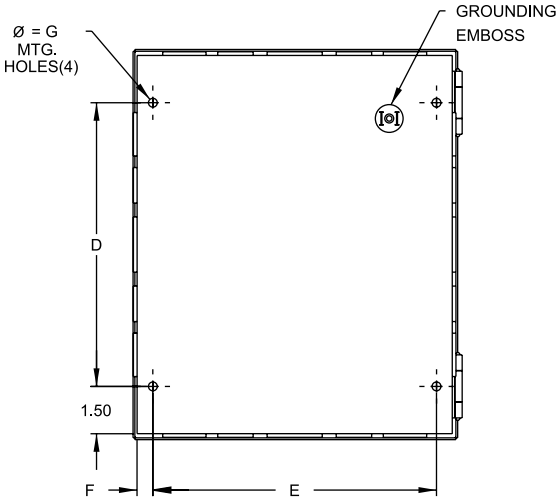
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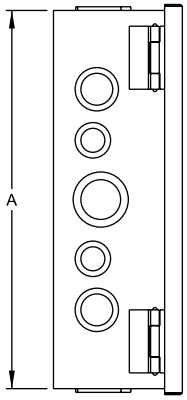
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C-Box Hinged Cover with Knockouts

NEMA 1

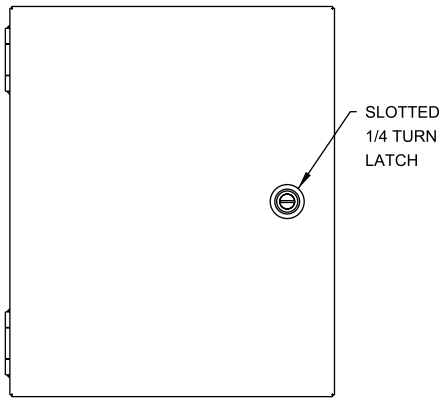


Rear View

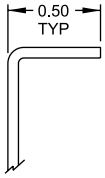


Side View

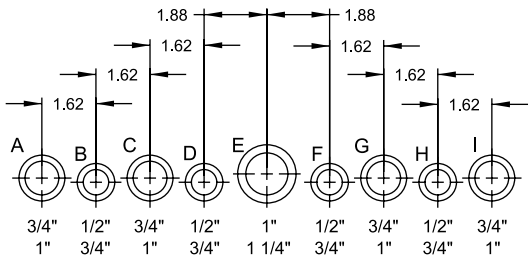
See knockout pattern in table



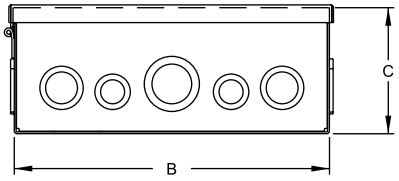
Front View



Body Flange Detail



Conduit Sizes



Bottom View

See knockout pattern in table

Part No.	Overall Dimensions A	B	C	Meeting Centers D	E	F	G	Knockout Pattern Sides	Knockout Pattern Top & Bottom	Ship Wt. lbs.
CHKO10106	10	10	6	7.00	9.00	0.50	0.28	F - G - H - I	C - D - E - F - G	8
CHKO12106	12	10	6	9.00	9.00	0.50	0.28	C - D - E - F - G	C - D - E - F - G	8
CHKO12126	12	12	6	9.00	11.00	0.50	0.28	C - D - E - F - G	C - D - E - F - G	10
CHKO16126	16	12	6	13.00	11.00	0.50	0.28	B - C - D - E - F - G - H	C - D - E - F - G	13
CHKO16166	16	16	6	13.00	15.00	0.50	0.28	B - C - D - E - F - G - H	B - C - D - E - F - G - H	14
CHKO18126	18	12	6	15.00	11.00	0.50	0.28	A - B - C - D - E - F - G - H - I	C - D - E - F - G	14
CHKO18186	18	18	6	15.00	17.00	0.50	0.28	A - B - C - D - E - F - G - H - I	A - B - C - D - E - F - G - H - I	20
CHKO24186	24	18	6	21.00	17.00	0.50	0.28	A - B - C - D - E - F - G - H - I	A - B - C - D - E - F - G - H - I	24
CHKO24246	24	24	6	21.00	22.50	0.75	0.44	A - B - C - D - E - F - G - H - I	A - B - C - D - E - F - G - H - I	40
CHKO30246	30	24	6	27.00	22.50	0.75	0.44	A - B - C - D - E - F - G - H - I	A - B - C - D - E - F - G - H - I	49
CHKO36246	36	24	6	33.00	22.50	0.75	0.44	A - B - C - D - E - F - G - H - I	A - B - C - D - E - F - G - H - I	57
CHKO36248	36	24	8	33.00	22.50	0.75	0.44	A - B - C - D - E - F - G - H - I	A - B - C - D - E - F - G - H - I	60

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Splitter Boxes
NEMA 1



Application
- The splitter boxes are designed for indoor distribution of up to 600 V (max) service using either 3 or 4 wires.

Construction
- Formed and spot welded from 14 or 16 gauge steel.
- Factory installed splitter blocks.
- Series of knockouts on each side.
- Padlocking hasp.

Finish
- Enclosure and cover are finished in ANSI 61 gray powder coating.

Standards
- CSA Certified
- **Complies with**
  - IEC 60529, IP20

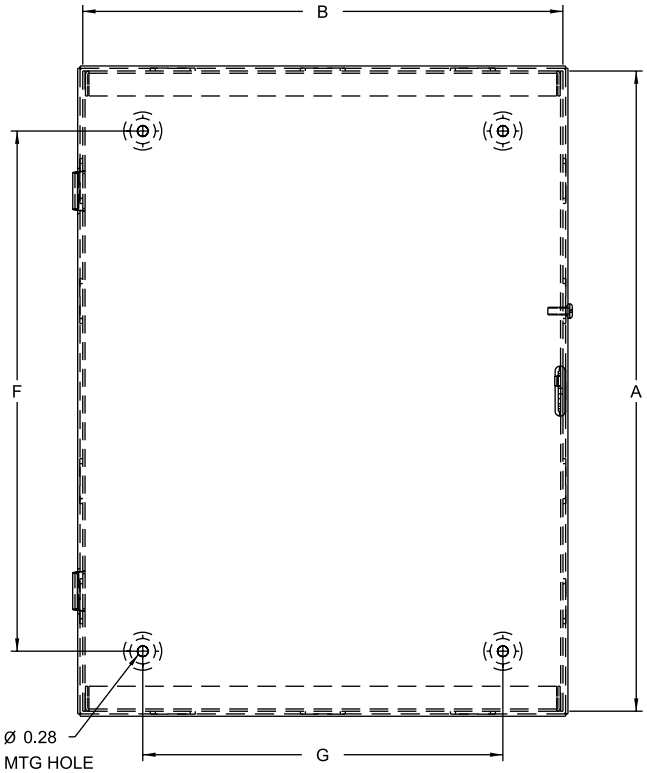
Part Number		CU/AL	Dimensions			Ship Wt.
3 Wire	4 Wire	Amps	H	W	D	lbs
CSB73	**CSB74**	70/70	12	10	4	9
CSB103	**CSB104**	125/120	15	10	4	10
CSB203	**CSB204**	225/225	18	12	5	16
CSB403	**CSB404**	400/340	24	17	6	37
CSB603*	**CSB604***	600/574	30	24	7	63

* 14 gauge steel

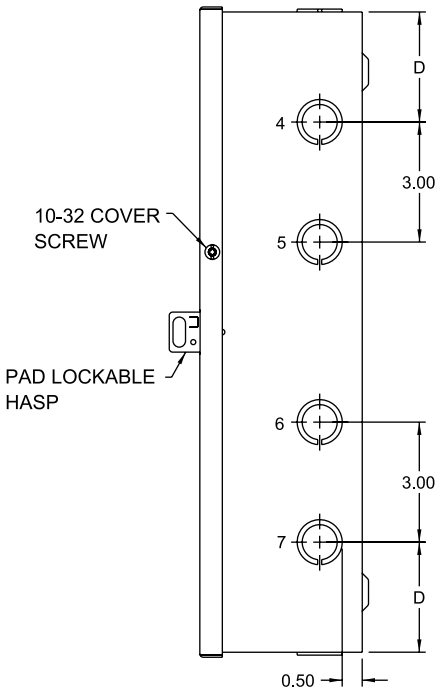
NOTE: Boxes without splitter blocks installed also available.

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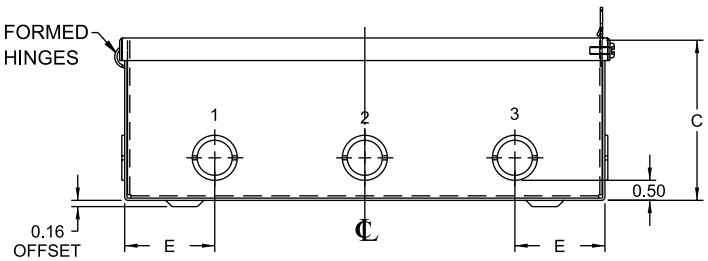
Splitter Boxes
NEMA 1



Front View



Side View



Bottom View

NOTE: KNOCKOUTS TYPICAL ON OPPOSITE SIDES

Part Number		Optional	CU/AL	Dimensions							Conduit Size (Location)		
3 Wire	4 Wire	Grounding Kit	Amps	A	B	C	D	E	F	G	1/2"-3/4"	3/4"-1"	2"-2 1/2"
CSB73	**CSB74**	**CGK125**	70/70	12	10	4	2.75	2.25	9.00	7.00	1,3,7	2,4	-
CSB103	**CSB104**	**CGK125**	125/120	15	10	4	2.75	2.25	12.00	7.00	1,3,7	2,4	-
CSB203	**CSB204**	**CGK225**	225/225	18	12	5	3.00	3.50	15.00	9.00	1,3,7	4	1,3
CSB403	**CSB404**	**CGK400**	400/340	24	17	6	3.31	4.88	21.00	14.00	-	-	-
CSB603*	**CSB604***	**CGK600**	600/574	30	24	7	4.00	5.00	27.00	21.00	-	-	-

* 14 gauge steel

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Splitter Boxes

NEMA 3R, 12, 4



Inner Panel Included

Application

- The splitter boxes are designed for distribution of up to 600 V (max) service using either 3 or 4 wires.

Standards

- CSA Certified Type 3R, 12, 4
- **Complies with**
  - IEC 60529, IP66

Construction

- Formed 14 and 16 gauge steel.
- Factory installed splitter blocks.
- Smooth, continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Hinges are constructed from 304 stainless steel.
- Hinge pins are stainless steel.
- Inner panel is included.

Finish

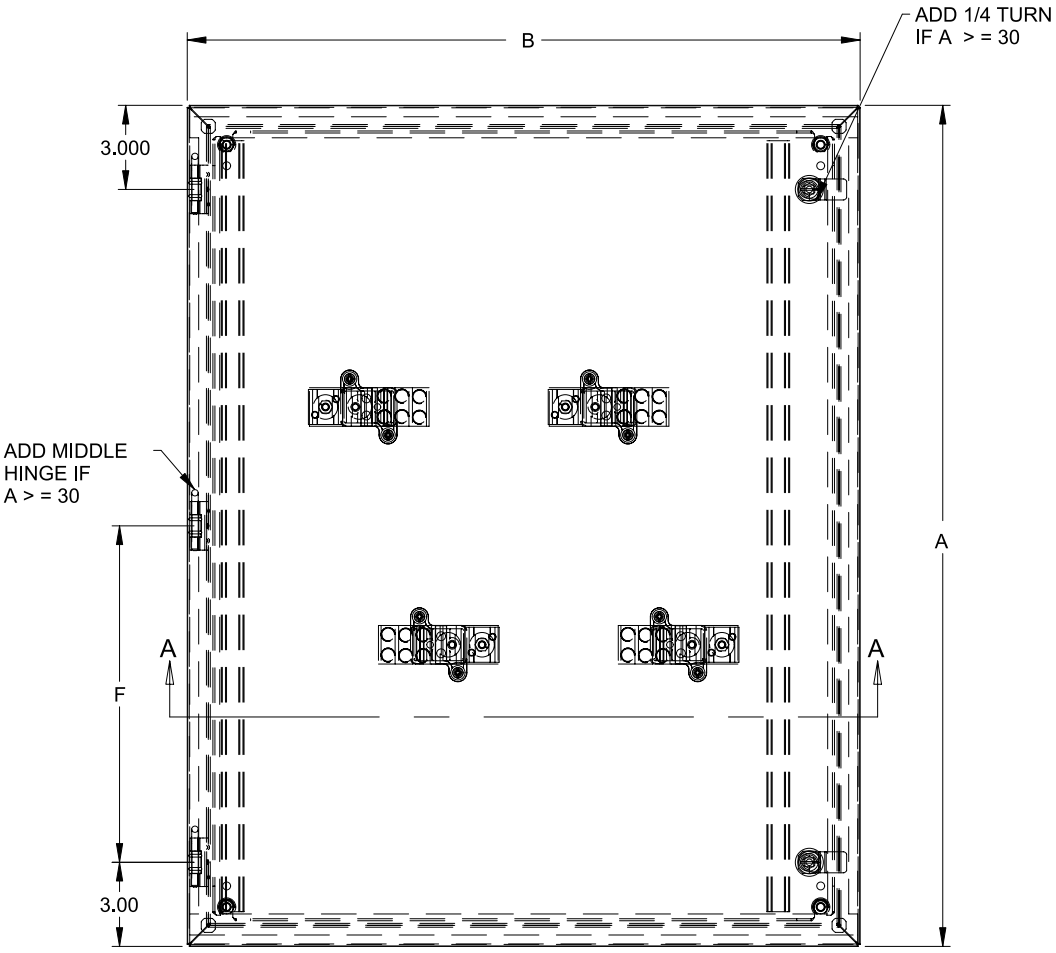
- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating.

Technical references and DXF downloads available at www.hammfg.com

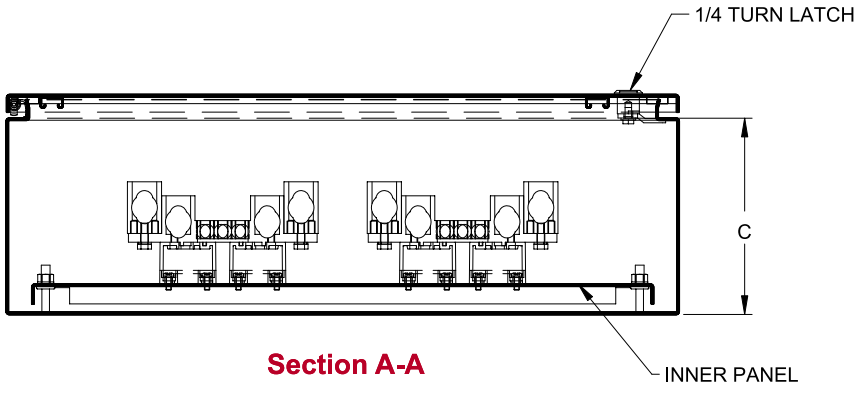
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Splitter Boxes
NEMA 3R, 12, 4



Front View



Section A-A

Part Number 3 Wire	Part Number 4 Wire	Door/Body Gauge	Optional Grounding Kit	CU/AL Amps	Dimensions A	B	C	D	E	F	# of Latches	# of Hinges
CN4SB73	**CN4SB74**	16	CGK125	70/70	12	10	5	10.17	8.17	N/A	1	2
CN4SB103	**CN4SB104**	16	CGK125	125/120	15	10	5	13.17	8.17	N/A	1	2
CN4SB203	**CN4SB204**	16	CGK225	225/225	18	12	5	16.17	10.17	N/A	1	2
CN4SB403	**CN4SB404**	16	CGK400	400/340	24	17	6	22.17	15.17	N/A	1	2
CN4SB603	**CN4SB604**	14	CGK600	600/574	30	24	7	28.17	22.17	12.00	2	3

* 14 gauge steel

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Splitter Troughs
NEMA 1



Application
- The splitter boxes are designed for distribution of up to 600 V (max) service using either 3 or 4 wires.

Standards
- CSA Certified
- **Complies with**
  - IEC 60529, IP20

Construction
- Formed 14 and 16 gauge steel.
- Smooth, continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Doors may be easily removed for modifications and are interchangeable.
- Hinges are constructed from 304 stainless steel.
- Hinge pins are stainless steel.

Finish
- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating.

Part Number		CU/AL	Dimensions			Ship
3 Wire	4 Wire	Amps	H	W	D	Wt.lbs
CST273	**CST274**	70/70	24	6	4	12
CST373	**CST374**	70/70	36	6	4	17
CST473	**CST474**	70/70	48	6	4	21
CST2103	**CST2104**	125/120	24	6	4	12
CST3103	**CST3104**	125/120	36	6	4	17
CST4103	**CST4104**	125/120	48	6	4	21
CST6103*	**CST6104***	125/120	72	8	5	39
CST2203*	-	225/225	24	8	5	16
CST3203*	**CST3204***	225/225	36	8	5	22
CST4203*	**CST4204***	225/225	48	8	5	27
CST5203*	**CST5204***	225/225	60	8	5	33
CST6203*	**CST6204***	225/225	72	8	5	39
CST3403*	-	400/340	36	10	6	35
CST4403*	**CST4404***	400/340	48	10	6	45
CST5403*	**CST5404***	400/340	60	10	6	58
CST6403*	**CST6404***	400/340	72	10	6	62
CST4603*	**CST4604***	600/574	48	10	6	45
CST5603*	**CST5604***	600/574	60	10	6	58
CST6603*	**CST6604***	600/574	72	10	6	62

* 14 gauge steel

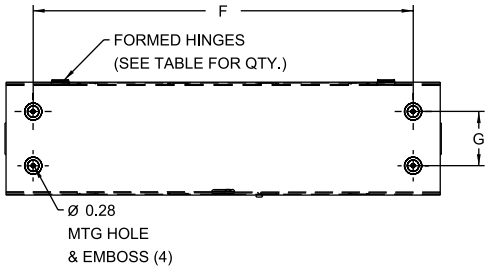
NOTE: Trough without blocks installed also available.

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

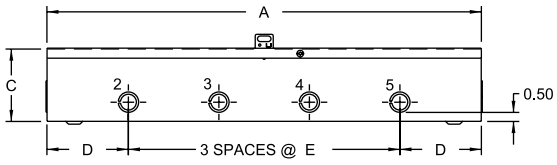
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Splitter Troughs
NEMA 1

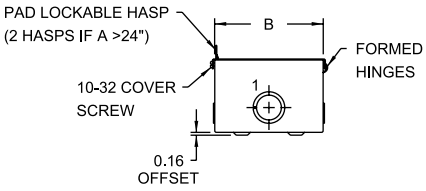


NOTE: KNOCKOUTS TYPICAL ON OPPOSITE SIDES

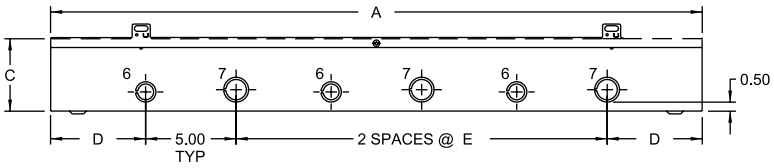
Top View



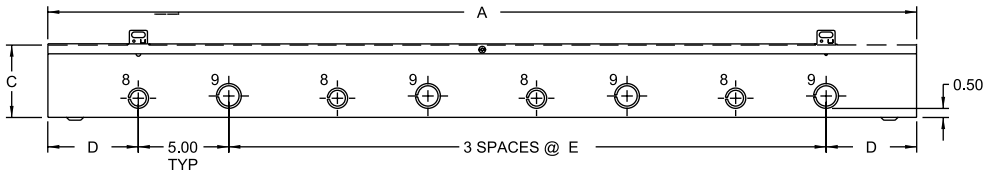
Detail - F



End View



Detail - G



Detail - H

Part Number 3 Wire	Part Number 4 Wire	Optional Grounding Kit	CU/AL Amps	Dimensions A	B	C	D	E	F	G	Detail	Conduit Size (Location) 1/2"-3/4"	3/4"-1"	1"-1 1/4"	2"-2 1/2"
CST273	**CST274**	**CGK225**	70/70	24	6	4	4.50	5.00	21.00	3.00	F	2,3,4,5	-	1	-
CST373	**CST374**	**CGK225**	70/70	36	6	4	7.50	7.00	33.00	3.00	F	2,3,4,5	-	1	-
CST473	**CST474**	**CGK225**	70/70	48	6	4	7.50	11.00	45.00	3.00	F	2,3,4,5	-	1	-
CST2103	**CST2104**	**CGK225**	125/120	24	6	4	4.50	5.00	21.00	3.00	F	2,3,4,5	-	1	-
CST3103	**CST3104**	**CGK225**	125/120	36	6	4	7.50	7.00	33.00	3.00	F	2,3,4,5	-	1	-
CST4103	**CST4104**	**CGK225**	125/120	48	6	4	7.50	11.00	45.00	3.00	F	2,3,4,5	-	1	-
CST6103*	**CST6104***	**CGK225**	125/120	72	8	5	5.25	10.25	69.00	5.00	H	8	9	1	-
CST2203*	**-**	**CGK225**	225/225	24	8	5	4.50	5.00	21.00	5.00	F	2,4	3,5	-	1
CST3203*	**CST3204***	**CGK225**	225/225	36	8	5	5.25	10.25	33.00	5.00	G	6	7	-	1
CST4203*	**CST4204***	**CGK225**	225/225	48	8	5	5.00	11.00	45.00	5.00	H	8	9	-	1
CST5203*	**CST5204***	**CGK225**	225/225	60	8	5	5.00	15.00	57.00	5.00	H	8	9	-	1
CST6203*	**CST6204***	**CGK225**	225/225	72	8	5	5.00	19.00	69.00	5.00	H	8	9	-	1
CST3403*	**-**	**CGK400**	400/340	36	10	6	5.25	10.25	33.00	7.00	G	6	7	-	-
CST4403*	**CST4404***	**CGK400**	400/340	48	10	6	5.00	11.00	45.00	7.00	H	8	9	-	-
CST5403*	**CST5404***	**CGK400**	400/340	60	10	6	5.00	15.00	57.00	7.00	H	8	9	-	-
CST6403*	**CST6404***	**CGK400**	400/340	72	10	6	5.00	19.00	69.00	7.00	H	8	9	-	-
CST4603*	**CST4604***	**CGK400**	600/574	48	10	6	5.00	11.00	45.00	7.00	H	8	9	-	-
CST5603*	**CST5604***	**CGK400**	600/574	60	10	6	5.00	15.00	57.00	7.00	H	8	9	-	-
CST6603*	**CST6604***	**CGK400**	600/574	72	10	6	5.00	19.00	69.00	7.00	H	8	9	-	-

* 14 gauge steel

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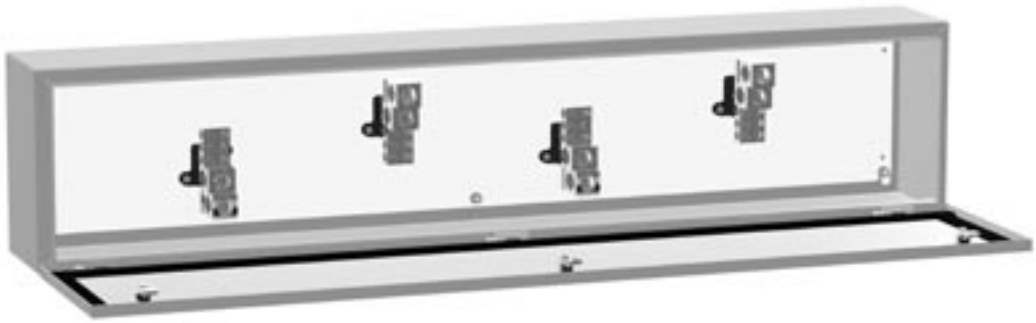
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Splitter Troughs

NEMA 3R, 12, 4



Inner Panel Included

Application

- The splitter boxes are designed for distribution of up to 600 V (max) service using either 3 or 4 wires.

Standards

- CSA Certified Type 3R, 12, 4
- **Complies with**
  - IEC 60529, IP66

Construction

- Formed 14 and 16 gauge steel.
- Factory installed splitter blocks.
- Smooth, continuously welded seams ground smooth.
- Door stiffeners are provided where required for increased strength and rigidity - designed to also permit additional mounting options.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Doors may be easily removed for modifications and are interchangeable.
- Oil resistant gaskets are permanently secured.
- Collar studs provided for mounting inner panel.
- Includes hardware kit with panel mounting nuts and sealing washers for wall mounting holes.
- Hinges are constructed from 304 stainless steel.
- Hinge pins are stainless steel.
- Inner panel is included.

Finish

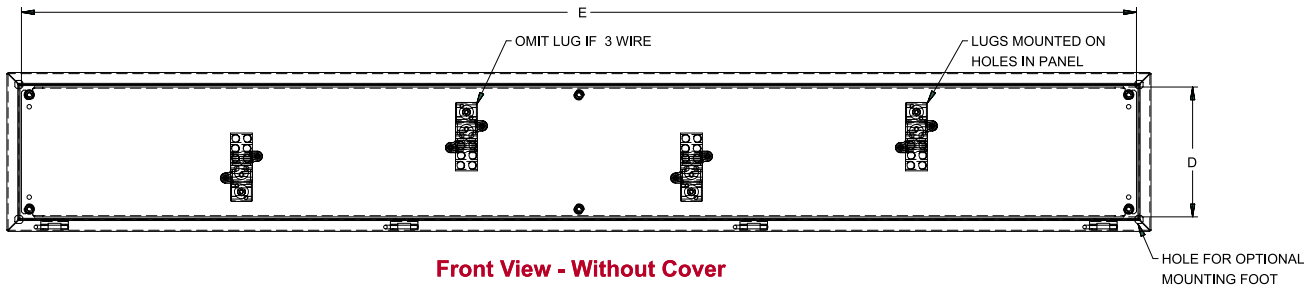
- Cover and enclosure are finished in recoatable smooth ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating.

Technical references and DXF downloads available at www.hammfg.com

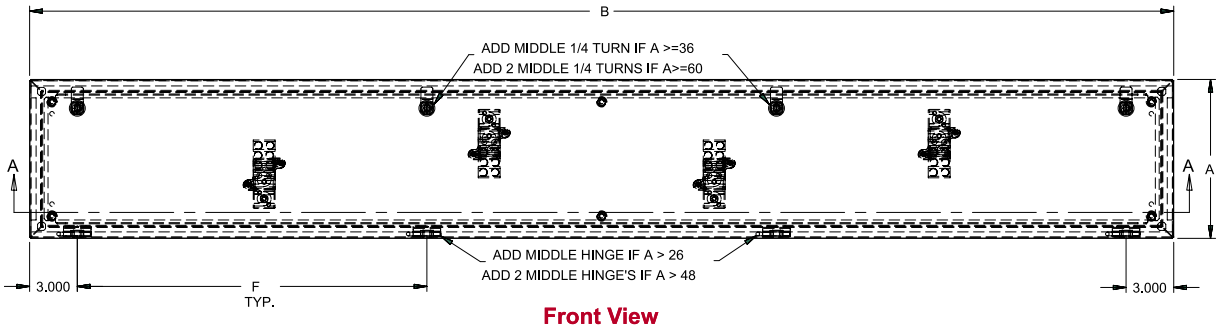
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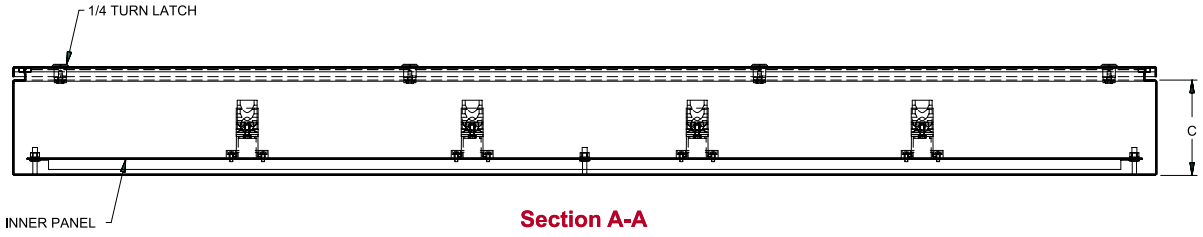
Splitter Troughs
NEMA 3R, 12, 4



Front View - Without Cover



Front View



Section A-A

Part Number 3 Wire	4 Wire	Gauge	Optional Grounding Kit	CU/AL Amps	Dimensions A	B	C	D	E	F	# Latches	# Hinges
CN4ST273	**CN4ST274**	16	CGK225	70/70	24	6	5	22.17	4.17	N/A	2	2
CN4ST373	**CN4ST374**	16	CGK225	70/70	36	6	5	34.17	4.17	15	2	3
CN4ST473	**CN4ST474**	16	CGK225	70/70	48	6	5	46.17	4.17	15	3	3
CN4ST2103	**CN4ST2104**	16	CGK225	125/120	24	6	5	22.17	4.17	N/A	2	2
CN4ST3103	**CN4ST3104**	16	CGK225	125/120	36	6	5	34.17	4.17	15	2	3
CN4ST4103	**CN4ST4104**	16	CGK225	125/120	48	6	5	46.17	4.17	21	3	3
CN4ST6103	**CN4ST6104**	14	CGK225	125/120	72	8	6	70.17	6.17	21	4	4
CN4ST2203	-	14	CGK225	225/225	24	8	5	22.17	6.17	N/A	2	2
CN4ST3203	**CN4ST3204**	14	CGK225	225/225	36	8	6	34.17	6.17	15	2	3
CN4ST4203	**CN4ST4204**	14	CGK225	225/225	48	8	6	46.17	6.17	21	3	3
CN4ST5203	**CN4ST5204**	14	CGK225	225/225	60	8	6	58.17	6.17	18	4	4
CN4ST6203	**CN4ST6204**	14	CGK225	225/225	72	8	6	70.17	6.17	22	4	4
CN4ST3403	-	14	CGK400	400/340	36	10	6	34.17	8.17	15	2	3
CN4ST4403	**CN4ST4404**	14	CGK400	400/340	48	10	6	46.17	8.17	21	3	3
CN4ST5403	**CN4ST5404**	14	CGK400	400/340	60	10	6	58.17	8.17	21	4	4
CN4ST6403	**CN4ST6404**	14	CGK400	400/340	72	10	6	70.17	8.17	22	4	4
CN4ST4603	**CN4ST4604**	14	CGK400	600/574	48	10	6	46.17	8.17	21	3	3
CN4ST5603	**CN4ST5604**	14	CGK400	600/574	60	10	6	58.17	8.17	18	4	4
CN4ST6603	**CN4ST6604**	14	CGK400	600/574	72	10	6	70.17	8.17	22	4	4

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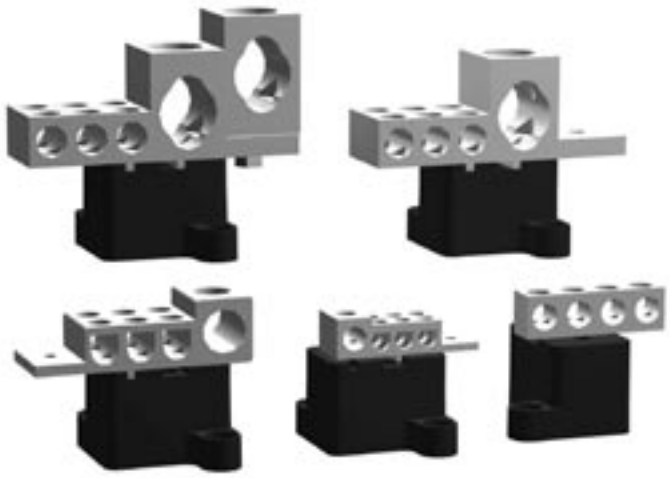
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Splitter Blocks



Application

- These blocks are used in Hammond standard splitter troughs and boxes.
- The design includes the main and branch lugs which can use either copper or aluminum conductors.
- All blocks are rated 600 V.

Standards

- CSA Certified

Construction

- Cu-Al monopiece connectors are secured to insulators.
- Each block includes a main lug and branch lugs.



CSBL125B



CSBL125T



CSBL225



CSBL400



CSBL600

Part No.	Main Lug Ampacity	Max./Min. Wire Capacity	Branch Lugs Ampacity	Max./Min. Wire Capacity	Ship Wt lbs
CSBL125B	125	1/0 - 14	3/70	3 x (2-14)	1
CSBL125T	125	1/0 - 14	6/70	6 x (2-14)	1
CSBL225	225	300MCM - 6	6/125	6 x (2/0-14)	1
CSBL400	400	600MCM - 4 or 2 (x) 250 MCM - 1/0	6/200	6 x (3/0 - 14)	1
CSBL600	600	(2x) 600MCM - 4 or (4x) 250MCM - 1/0	6/200	6 x (3/0-14)	1

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Grounding Kits



Application
- Designed for use with aluminum and copper conductors.

Standards
- CSA Certified

Construction
- Lugs are constructed from high strength, high conductive aluminum alloy 6061-T6, rated at 90°C
- Kits are supplied with all necessary mounting hardware.



CGK125



CGK225



CGK400



CGK600



CGK

Part No.	Application	Number of Circuits and Wire Sizes
CGK125	Splitter Box 70 A, 125 A	4 x (2-14 CU-AL)
CGK225	Splitter Box 225 A/Trough 70 A, 125A, 225 A	7 x (2-14 CU-AL)
CGK400	Splitter Box/Trough 400 A	7 x (2-14 CU-AL) & 1 x (1/0-14 CU-AL)
CGK600	Splitter Box/Trough 600 A	7 x (2-14 CU-AL) & 1 x (300 MCM - 6 CU-AL)
CGK	Junction/Pull Box	3 x (4-14 CU-AL)

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Metering Cabinets
NEMA 1



Application
- Designed for indoor housing of metering transformers.

Standards
- CSA Approved
- **Complies with**
  - IEC 60529, IP20

Construction
- Formed and spot welded from 14 or 16 gauge steel.
- Spot welded construction and formed edges.
- Removable inner panel.
- Hinged covers.
- 2 cutouts in top of each cabinet with metering plates included.

Finish
- Enclosure and cover are finished in ANSI 61 gray inside and out.

Part No.	Dimensions A	B	C	Panel Dimensions	Type of Door	Latch Type	Latch Qty	Metering Plates	Ship Wt. lbs.
CMC202010	20	20	10	16 x 16	Single	Hasp	2	2	42
CMC271310*	27	13	10	23 x 9	Single	Hasp	2	0	38
CMC302010	30	20	10	26 x 16	Single	Hasp	2	2	69
CMC303010	30	30	10	26 x 26	Double	2 Hasp + Quarter Turn	3	2	92
CMC363612	36	36	12	32 x 32	Double	2 Hasp + Quarter Turn	3	2	131
CMC484812	48	48	12	44 x 44	Double	2 Hasp + Quarter Turn	3	2	210

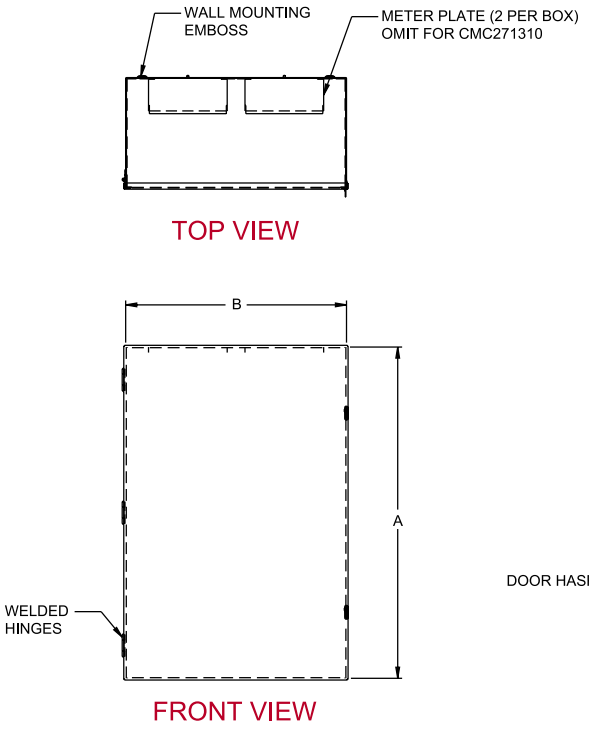
* no cutouts in top or metering plates

Technical references and DXF downloads available at www.hammfg.com

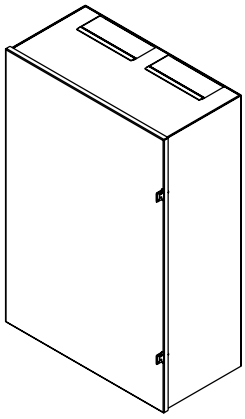
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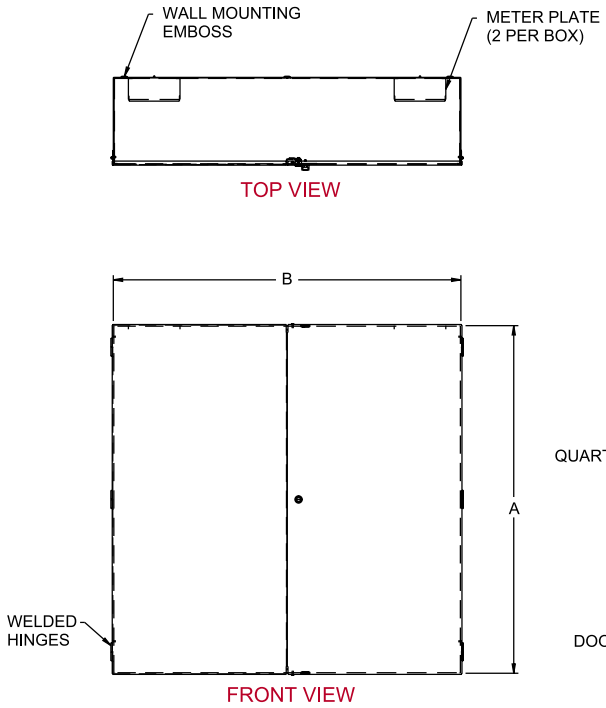
Single Door

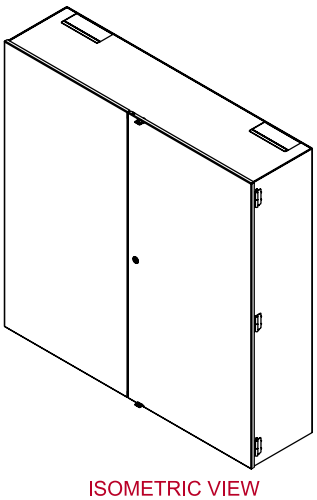


* no cutouts or metering plates in **CMC271310**



Double Door





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Hydro-Quebec Metering Cabinets

NEMA 1



Application

- Designed for indoor housing of metering transformers per Hydro Quebec specifications.

Standards

- CSA Approved
- **Complies with**
  - IEC 60529, IP20

Construction

- Formed and spot welded from 14 or 16 gauge steel.
- Spot welded construction and formed edges.
- Removable inner panels.
- Hinged covers.
- 2 cutouts in top of each cabinet with metering plates included.

Finish

- Enclosure and cover are finished in ANSI 61 gray inside and out.

Cabinet Catalog Numbers

	Dimensions			
Part Number	A	B	C	Gauge
CMCQ303010	30	30	10	16
CMCQ363612	36	36	12	14
CMCQ484812	48	48	12	14

Panel Catalog Numbers

Panel Part Number	Description	Dimensions D	E
CMCQP1	Accessory Plate	24.685	7.000
CMCQP2	Universal Support Current Panel	12.756	13.386
CMCQP3	Universal Support Voltage Panel	25.591	15.006

Panel Selection Guide

	Panel supplied with enclosure			Panel capacity per enclosure		
Enclosure	CMCQP1	CMCQP2	CMCQP3	CMCQP1	CMCQP2	CMCQP3
CMCQ303010	1	1	1	1	1	1
CMCQ363612	1	1	1	2	1	1
CMCQ484812	1	1	1	2	2	1

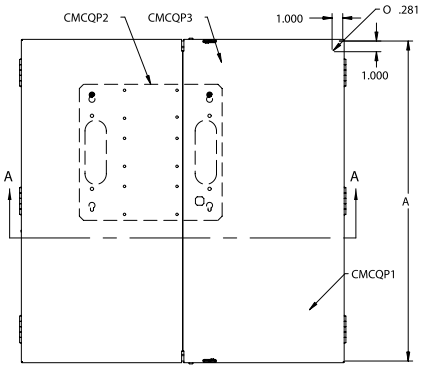
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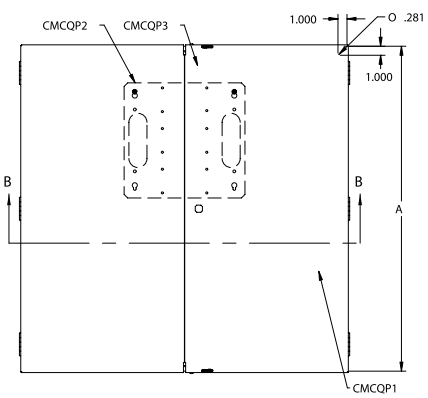
Hydro-Quebec Metering Cabinets
NEMA 1

CMCQ303010



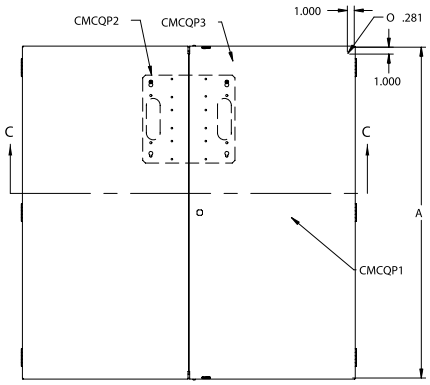
FRONT VIEW - DOORS REMOVED

CMCQ363612

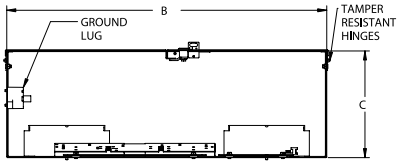


FRONT VIEW - DOORS REMOVED

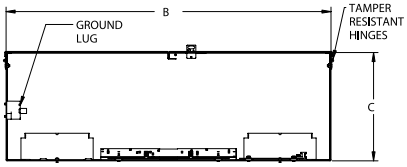
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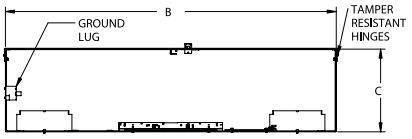
FRONT VIEW - DOORS REMOVED



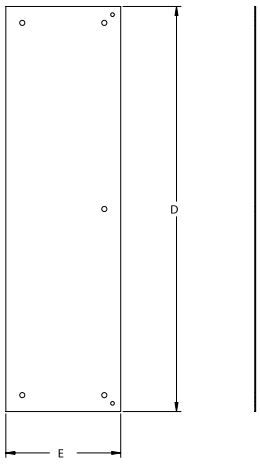
SECTION A-A



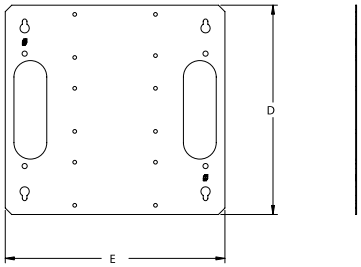
SECTION B-B



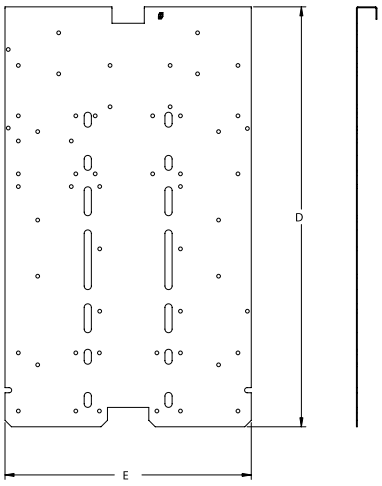
SECTION C-C



CMCQP1
ACCESSORY PLATE



CMCQP2
UNIVERSAL SUPPORT CURRENT PANEL



CMCQP3
UNIVERSAL SUPPORT VOLTAGE PANEL

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

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N1J Series Panel Enclosure

NEMA 1



Inner Panel Included

Application

- Designed for indoor use to house controls, instruments and components not requiring oil-tight or dust-tight protection.

Standards

- UL-50 Type 1
- cUL-Type 1
- **Complies with**
  - NEMA Type 1
  - IEC 60529, IP20

Construction

- Formed and spot welded from 16 gauge steel.
- Formed steel covers close by use of slotted quarter turn latch.
- Full swing door using butt hinges.
- Through holes in back for wall mounting.
- Bonding stud is provided on the door and a grounding stud is provided on the box.
- Includes 14 gauge steel inner panel.

Finish

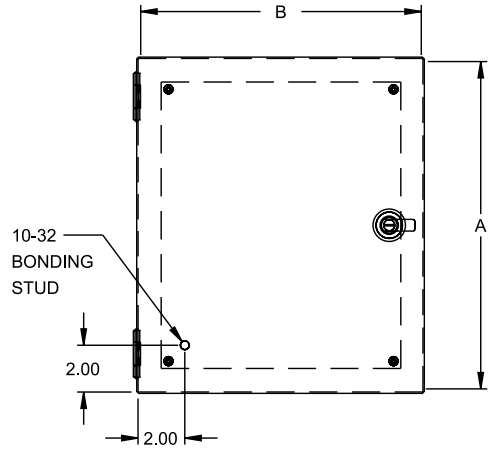
- Enclosure and cover are finished in ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating

Technical references and DXF downloads available at www.hammfg.com

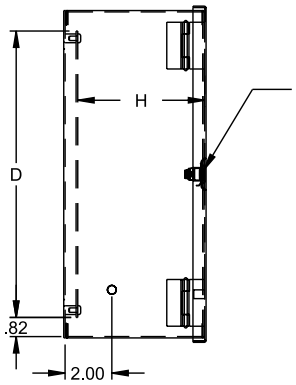
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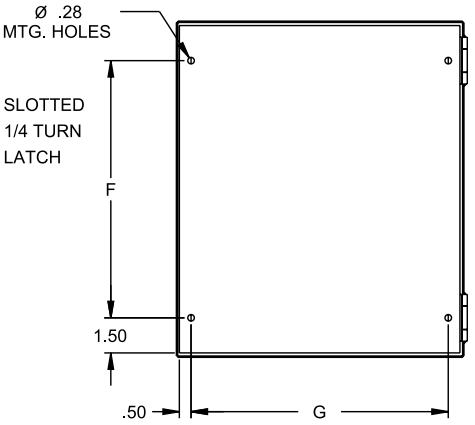
N1J Series Panel Enclosure
NEMA 1



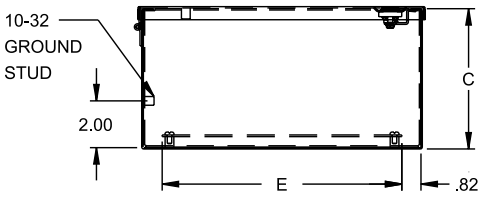
Front View



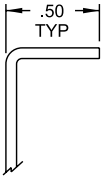
Side View



Back View



Bottom View



Body Flange Detail

Part No.	Overall Dimensions A	B	C	Panel Size D	E	Centers F	G	H	Ship Wt. lbs.
N1J664	6	6	4	4.25	4.25	3.00	5.00	3.43	5
N1J864	8	6	4	6.25	4.25	5.00	5.00	3.43	6
N1J884	8	8	4	6.25	6.25	5.00	7.00	3.43	7
N1J1084	10	8	4	8.25	6.25	7.00	7.00	3.43	8
N1J10104	10	10	4	8.25	8.25	7.00	9.00	3.43	9
N1J12104	12	10	4	10.25	8.25	9.00	9.00	3.43	11
N1J12124	12	12	4	10.25	10.25	9.00	11.00	3.43	13
N1J14124	14	12	4	12.25	10.25	11.00	11.00	3.43	14
N1J886	8	8	6	6.25	6.25	5.00	7.00	5.43	7
N1J1086	10	8	6	8.25	6.25	7.00	7.00	5.43	10
N1J10106	10	10	6	8.25	8.25	7.00	9.00	5.43	11
N1J12106	12	10	6	10.25	8.25	9.00	9.00	5.43	12
N1J12126	12	12	6	10.25	10.25	9.00	11.00	5.43	15
N1J14126	14	12	6	12.25	10.25	11.00	11.00	5.43	16
N1J16126	16	12	6	14.25	10.25	13.00	11.00	5.43	16
N1J20126	20	12	6	18.25	10.25	17.00	11.00	5.43	22
N1J12128	12	12	8	10.25	10.25	9.00	11.00	7.43	17
N1J14128	14	12	8	12.25	10.25	11.00	11.00	7.43	18

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N1A Series Panel Enclosure

Non-Ventilated - NEMA 1



Inner Panel Included

Application

- Designed for indoor use to house controls, instruments and components not requiring oil-tight or dust-tight protection.

Standards

- UL 50 Type 1 on models marked[1]
- CSA Type 1
- **Complies with**
  - NEMA Type 1
  - IEC 60529, IP20

Construction

- Enclosure is formed and spot welded from 14 gauge steel.
- Removable 12 or 14 gauge inner panel is mounted in the rear of the enclosure on collar studs.
- Removable door is mounted on slip hinges.
- Door is fastened with a slotted quarter turn latch; doors 30" and higher are provided with two latches.
- A bonding stud is provided on the door and a grounding stud is provided in the box.
- Mounting holes are provided in the rear of the enclosure.

Finish

- Enclosure and door are finished in ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***435***
- Lock kit for NEMA 1 enclosures (Part No. **1427LKN1**)...*see page* ***428***
- Louvered ventilating plates ...*see page* ***450***
- Window kits...*see page* ***444***
- Padlock Adaptor...*see page* ***432***

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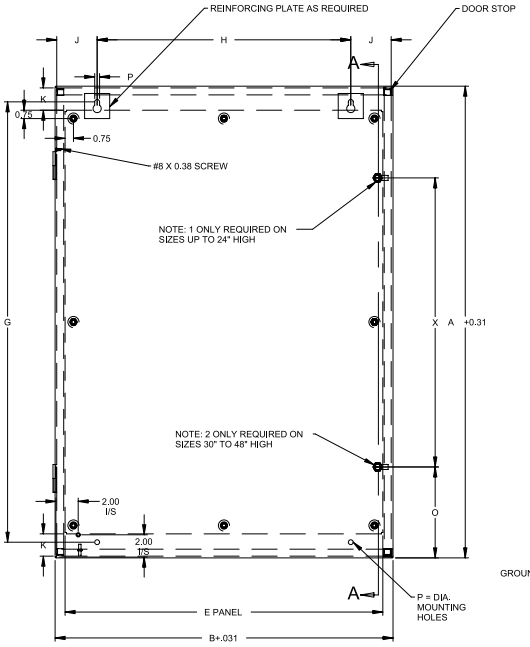
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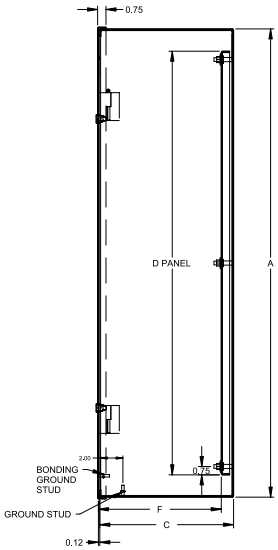
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N1A Series Panel Enclosure

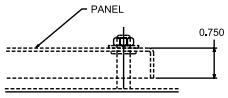
Non-Ventilated - NEMA 1



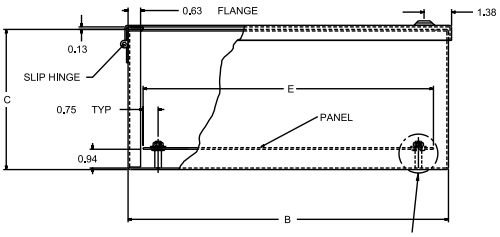
Front View



Side View



Detail A
Typ. for N1A423012, N1A423612 and N1A483612



Bottom View

When A=	X=
30	18.00
36	22.00
42	26.00
48	30.00

Part No.	Dimensions A	B	C	Panel Size D	E	Panel Gauge	No. of Studs	G	Mounting Dimensions H	J	Q	P	Panel Clearance F	K	O	Ship Wt. lbs
N1A16127[1,2]	16	12	7	13	10.50	14	4	13.88	7.00	2.50	1.06	0.31	6.04	1.5	—	25
N1A16167[1,2]	16	16	7	13	14.50	14	4	13.88	11.00	2.50	1.06	0.31	6.04	1.5	—	30
N1A16207[1,2]	16	20	7	13	18.50	14	4	13.88	15.00	2.50	1.06	0.31	6.04	1.5	—	36
N1A20167[1,2]	20	16	7	17	14.50	14	4	17.88	11.00	2.50	1.06	0.31	6.04	1.5	—	37
N1A20207[1,2]	20	20	7	17	18.50	14	4	17.88	15.00	2.50	1.06	0.31	6.04	1.5	—	43
N1A24167[1,2]	24	16	7	21	14.50	14	4	21.88	11.00	2.50	1.06	0.31	6.04	1.5	—	43
N1A24207[1,2]	24	20	7	21	18.50	14	4	21.88	15.00	2.50	1.06	0.31	6.04	1.5	—	51
N1A24247[1,2]	24	24	7	21	22.50	12	4	21.88	19.00	2.50	1.06	0.31	6.01	1.5	—	67
N1A30207[1,2]	30	20	7	26	18.50	12	6	27.50	12.75	3.63	1.25	0.44	6.01	2.0	6.16	67
N1A30247[1,2]	30	24	7	26	22.50	12	6	27.50	16.75	3.63	1.25	0.44	6.01	2.0	6.16	80
N1A36247[1,2]	36	24	7	32	22.50	12	6	33.50	16.75	3.63	1.25	0.44	6.01	2.0	7.16	94
N1A36307[2]	36	30	7	32	28.50	12	8	33.50	22.75	3.63	1.25	0.44	6.01	2.0	7.16	114
N1A16129[1,2]	16	12	9	13	10.50	14	4	13.88	7.00	2.50	1.06	0.31	8.04	1.5	—	27
N1A20169[1,2]	20	16	9	17	14.50	14	4	17.88	11.00	2.50	1.06	0.31	8.04	1.5	—	31
N1A20209[1,2]	20	20	9	17	18.50	14	4	17.88	15.00	2.50	1.06	0.31	8.04	1.5	—	47
N1A20249[1,2]	20	24	9	17	22.50	14	4	17.88	19.00	2.50	1.06	0.31	8.04	1.5	—	55
N1A24209[1,2]	24	20	9	21	18.50	14	4	21.88	15.00	2.50	1.06	0.31	8.04	1.5	—	55
N1A24249[1,2]	24	24	9	21	22.50	12	4	21.88	19.00	2.50	1.06	0.31	8.01	1.5	—	125
N1A30209[1,2]	30	20	9	26	18.50	12	6	27.50	12.75	3.63	1.25	0.44	8.01	2.0	6.16	72
N1A30249[1,2]	30	24	9	26	22.50	12	6	27.50	16.75	3.63	1.25	0.44	8.01	2.0	6.16	85
N1A30309[2]	30	30	9	26	28.50	12	8	27.50	22.75	3.63	1.25	0.44	8.01	2.0	6.16	102
N1A36249[1,2]	36	24	9	32	22.50	12	6	33.50	16.75	3.63	1.25	0.44	8.01	2.0	7.16	107
N1A36309[2]	36	30	9	32	28.50	12	8	33.50	22.75	3.63	1.25	0.44	8.01	2.0	7.16	120
N1A42249[1,2]	42	24	9	38	22.50	12	6	39.50	16.75	3.63	1.25	0.44	8.01	2.0	8.16	111
N1A242012[1,2]	24	20	12	21	18.50	14	4	21.88	15.00	2.50	1.06	0.31	11.04	1.5	—	61
N1A242412[1,2]	24	24	12	21	22.50	12	4	21.88	19.00	2.50	1.06	0.31	11.01	1.5	—	132
N1A302412[1,2]	30	24	12	26	22.50	12	6	27.50	16.75	3.63	1.25	0.44	11.01	2.0	6.16	94
N1A363012[2]	36	30	12	32	28.50	12	8	33.50	22.75	3.63	1.25	0.44	11.01	2.0	7.16	129
N1A423012	42	30	12	38	28.50	12	8	39.50	22.75	3.63	1.25	0.44	11.01	2.0	8.16	144
N1A423612	42	36	12	38	34.50	12	8	39.50	28.75	3.63	1.25	0.44	11.01	2.0	8.16	169
N1A483612	48	36	12	44	34.50	12	8	45.50	28.75	3.63	1.25	0.44	11.01	2.0	9.16	197

[1] UL 50 listed Type 1 [2] Flat Panel

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1420 Series Panel Enclosure

Non-Ventilated - NEMA 1



Inner Panel Included

Application

- Designed for indoor use to house controls, instruments and components which do not require oil-tight or dust-tight protection.

Standards

- UL 508 Type 1 on models marked[1]
- CSA Type 1
- **Complies with**
  - NEMA Type 1
  - IEC 60529, IP20

Construction

- Enclosure is formed and spot welded from 14 gauge steel.
- Removable 12 gauge inner panel is mounted to the rear of the enclosure on collar studs.
- Removable door is attached with slip hinges.
- To remove door, a tool is required to remove the #8 screw which captivates hinge.
- Door is fastened with a slotted 1/4 turn latch; doors 30" and higher are provided with two latches.
- A bonding stud is provided on the door and a grounding stud is provided in the box.

Finish

- Enclosure and door are finished in ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page* ***434***
- Lock kit for NEMA 1 enclosures (Part No. 1427LKN1)...*see page* ***428***
- Louvered ventilating plates ...*see page* ***450***
- Window kits...*see page* ***444***
- Padlock Adaptor (Part No. EJPA) ...*see page* ***432***

Part No.	Mounting Centers					Panel Size				Ship
	A	B	C	J	F	D	E	H	O	Wt. lbs
1420B7[1,2]	16	12	7	17.50	9.50	14	10	5.88	—	26
1420C7[1,2]	20	16	7	21.50	10.00	18	14	5.88	—	39
1420D7[1,2]	20	20	7	21.50	14.00	18	18	5.88	—	48
1420E7[1]	24	20	7	25.50	14.00	22	18	5.88	—	53
1420F7[1]	30	20	7	31.50	14.00	28	18	5.88	6.16	67
1420G7[1]	30	24	7	31.50	18.00	28	22	5.88	6.16	79
1420H7[1]	36	24	7	37.50	18.00	34	22	5.88	7.16	90
1420E9[1]	24	20	9	25.50	14.00	22	18	7.88	—	60
1420EM9[1]	24	24	9	25.50	18.00	22	22	7.88	—	71
1420G9[1]	30	24	9	31.50	18.00	28	22	7.88	6.16	84

1 UL Listed 2 Flat Panel

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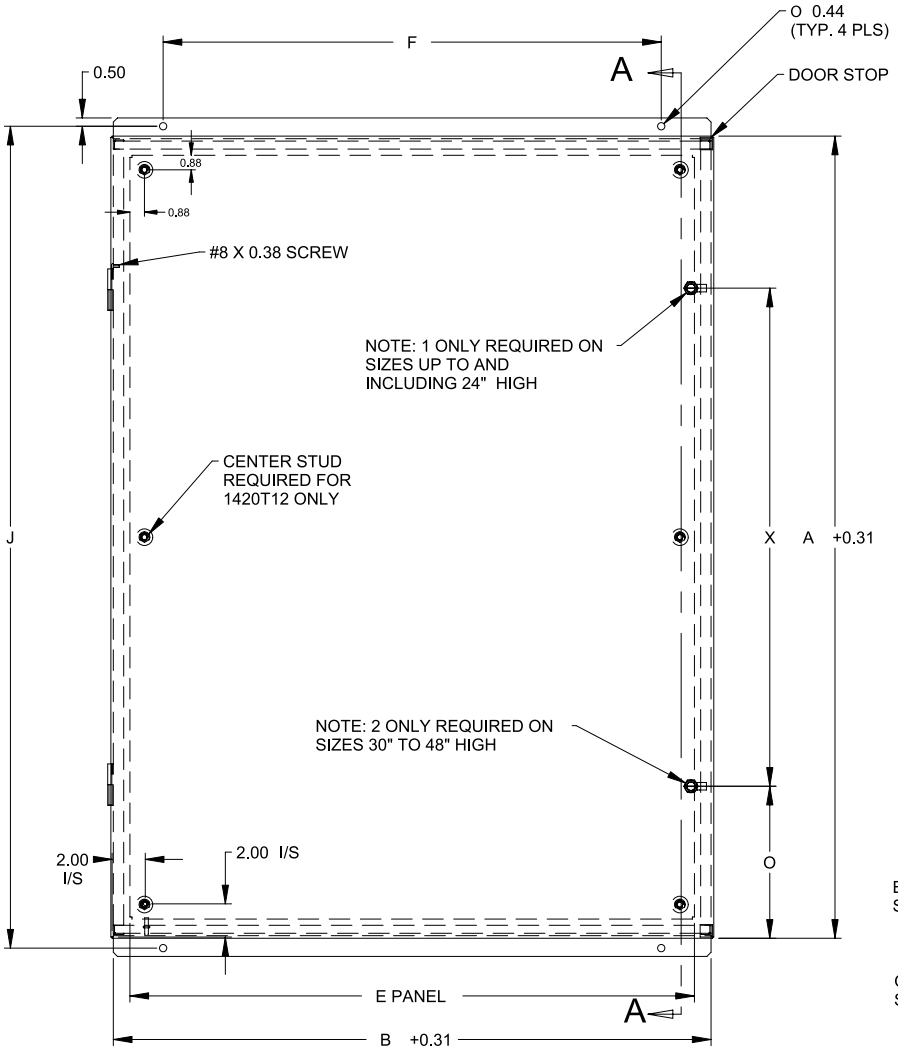
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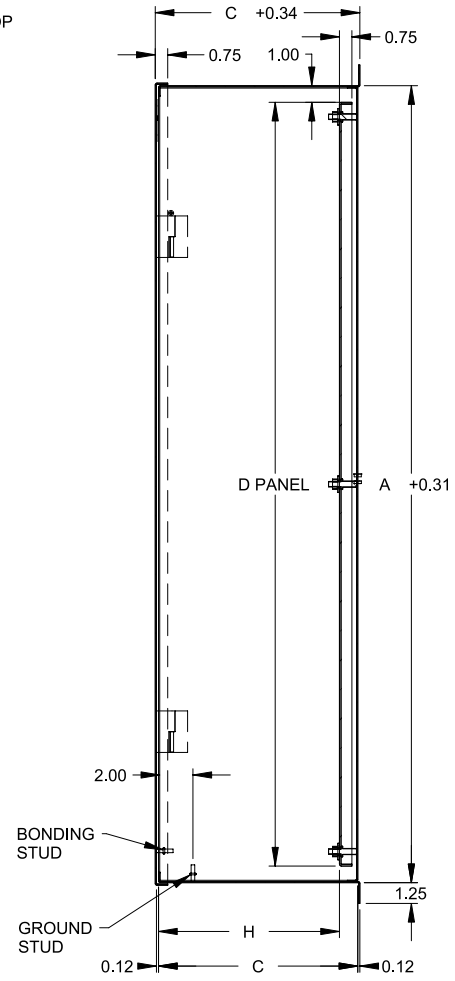
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1420 Series Panel Enclosure

Non-Ventilated - NEMA 1



FRONT VIEW



SECTION A-A

When A=	X=
30	18.00
36	22.00
42	26.00
48	30.00

Part No.	A	B	C	Mounting Centers J	Mounting Centers F	Panel Size D	Panel Size E	H	O	Ship Wt. lbs
1420H9[1]	36	24	9	37.50	18.00	34	22	7.88	7.16	98
1420P9	36	30	9	37.50	24.00	34	28	7.88	7.16	118
1420Q9[1]	42	24	9	43.50	18.00	40	22	7.88	8.16	111
1420G12[1]	30	24	12	31.50	18.00	28	22	10.88	6.16	92
1420P12	36	30	12	37.50	24.00	34	28	10.88	7.16	128
1420R12	42	30	12	43.50	24.00	40	28	10.88	8.16	142
1420S12	42	36	12	43.50	30.00	40	34	10.88	8.16	156
1420T12	48	36	12	49.50	30.00	46	34	10.88	9.16	214
1420G16[1]	30	24	16	31.50	18.00	28	22	14.88	6.16	105
1420P16	36	30	16	37.50	24.00	34	28	14.88	7.16	144

1 UL Listed 2 Flat Panel

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1416 Series - NEMA 1

Ventilated Component Case



Application

- Designed to provide mechanical protection for components requiring ventilation.
- Suitable for use where heat dissipation is required.

Standards

- **Complies with**
  - NEMA Type 1

Construction

- Base is formed from 16 gauge steel with two 0.5”/0.75” conduit knock-outs located in each end.
- Four .125” high raised dimples with mounting holes are provided on the base.
- Cover is formed from 18 gauge steel with 0.235” x 1.5” ventilating slots (0.199” x 1.12” on E & G only).
- Screw holes and offsets in the cover allow easy assembly.

Finish

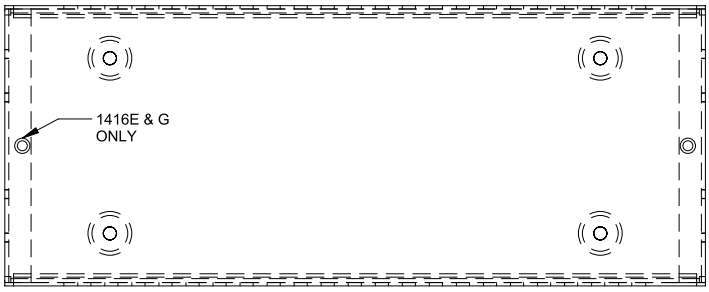
- Base and cover are finished in ANSI 61 gray powder coating.

Technical references and DXF downloads available at www.hammfg.com

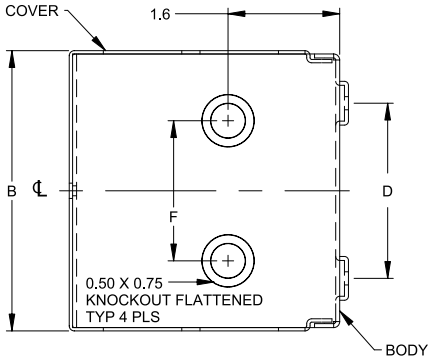
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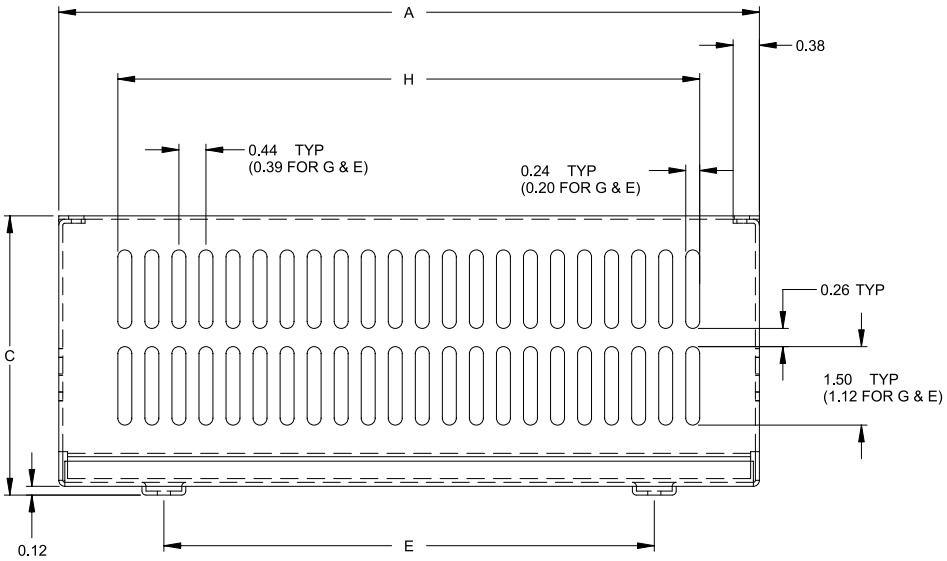
1416 Series - NEMA 1
Ventilated Component Case



Top End



Side View



Front View

Part No.	Dimensions						Ventilated Area		Ship
	A	B	C	D	E	F	G	H	Wt. lbs.
1416E	6	4	4	2.5	4	2	2.50	4.06	2
1416G	10	4	4	2.5	7	2	2.50	8.31	2
1416I	10	6	6	4.5	7	3	3.25	7.68	4
1416K	11	7	7	5.5	8	4	5.00	7.68	6
1416M	12	8	8	6.5	9	5	5.00	10.31	8
1416O	15	10	8	8.5	12	6	5.00	12.93	10
1416Q	20	10	8	8.5	17	6	5.00	18.18	12
1416T	20	10	10	8.5	17	6	6.75	15.56	14

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N1WS Series Surface Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Application

- Designed for indoor use to enclose controls, instruments, and components which do not require oil-tight or dust-tight protection.
- Ideal for applications where components may be easily mounted and wired prior to installation of wrapper and door.

Standards

- UL 50 Type 1
- CSA Type 1
- **Complies with**
  - NEMA Type 1
  - IEC 60529, IP20

Construction

- Three piece assembly consisting of a base, wrapper, and door.
- Components are attached and secured with metal screws.
- 14 gauge reverse formed base provides clearance for mounting hardware.
- Wrapper is available in three depths: 4", 6", and 8".
- Wrapper is formed from 16 gauge steel, with no knock-outs in the sides.
- Door assembly formed from 16 gauge steel.
- Removable door is mounted on slip hinges.
- A bonding stud is provided on the door and a grounding screw is provided for the enclosure.
- Door is fastened with a slotted quarter turn latch.

Finish

- Base, wrapper and door are finished in ANSI 61 gray powder coating.

Accessories

- Surface lock kit (Part No. 1427Z)
  ...see page ***428***
- Padlock Adaptor (Part No. EJPA)
  ...see page ***432***

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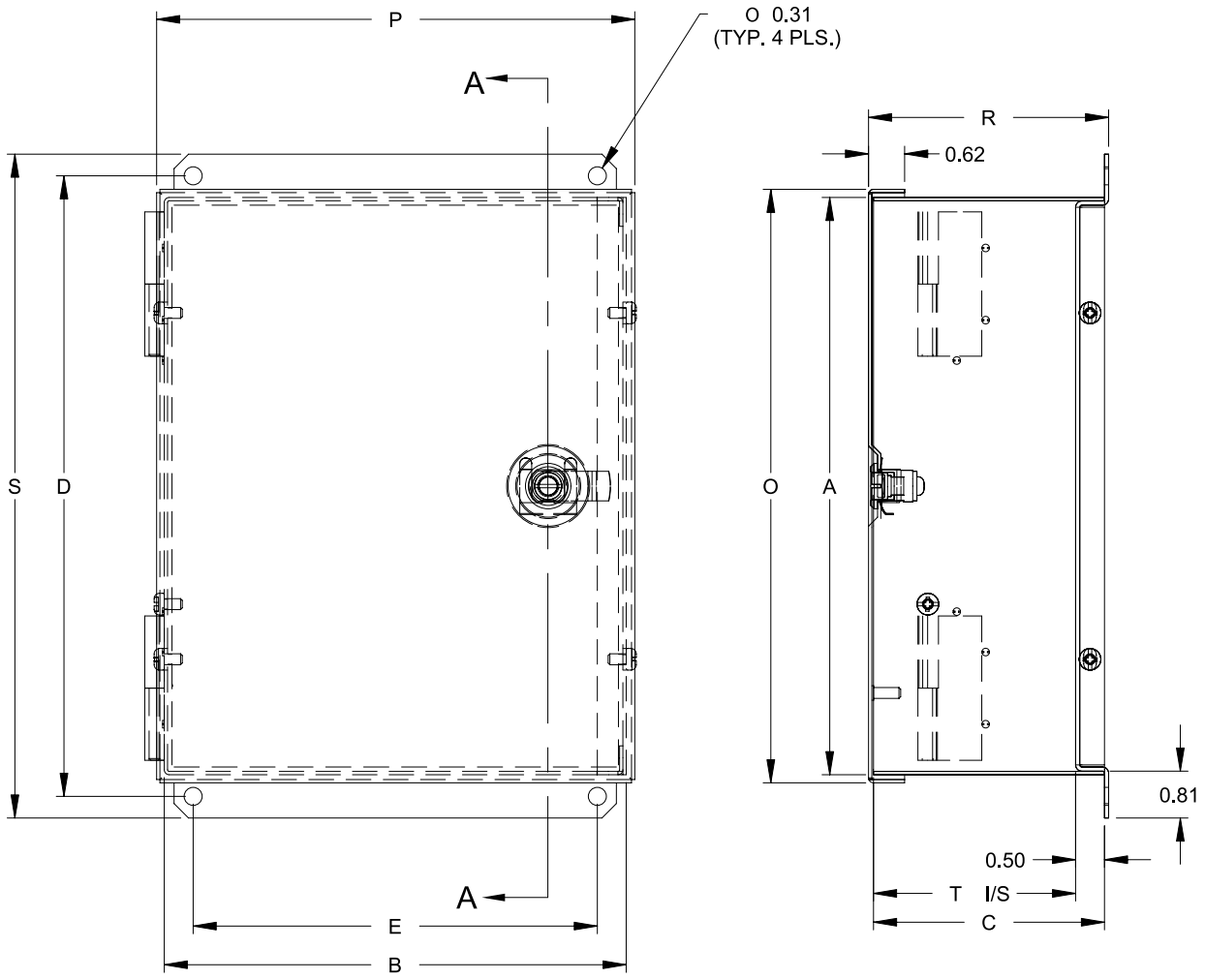
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N1WS Series Surface Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Front View **Side View**

Part No.		Wrapper Size A	B	C	Mounting Centers D	E	P	Overall Dimensions R	S	T	O	Ship Wt. Lbs
N1WS864	4" Deep	8	6	4	8.75	5	6.28	4.16	9.5	3.5	8.28	5
N1WS1084		10	8	4	10.75	7	8.28	4.16	11.5	3.5	10.28	7
N1WS12104		12	10	4	12.75	9	10.28	4.16	13.5	3.5	12.28	10
N1WS16124		16	12	4	16.75	11	12.28	4.16	17.5	3.5	16.28	14
N1WS20164		20	16	4	20.75	15	16.28	4.16	21.5	3.5	20.28	20
N1WS24204		24	20	4	24.75	19	20.28	4.16	25.5	3.5	24.28	28
N1WS866	6" Deep	8	6	6	8.75	5	6.28	6.16	9.5	5.5	8.28	6
N1WS1086		10	8	6	10.75	7	8.28	6.16	11.5	5.5	10.28	9
N1WS12106		12	10	6	12.75	9	10.28	6.16	13.5	5.5	12.28	11
N1WS16126		16	12	6	16.75	11	12.28	6.16	17.5	5.5	16.28	16
N1WS20166		20	16	6	20.75	15	16.28	6.16	21.5	5.5	20.28	22
N1WS24206		24	20	6	24.75	19	20.28	6.16	25.5	5.5	24.28	31
N1WS868	8" Deep	8	6	8	8.75	5	6.28	8.16	9.5	7.5	8.28	7
N1WS1088		10	8	8	10.75	7	8.28	8.16	11.5	7.5	10.28	10
N1WS12108		12	10	8	12.75	9	10.28	8.16	13.5	7.5	12.28	13
N1WS16128		16	12	8	16.75	11	12.28	8.16	17.5	7.5	16.28	18
N1WS20168		20	16	8	20.75	15	16.28	8.16	21.5	7.5	20.28	26
N1WS24208		24	20	8	24.75	19	20.28	8.16	25.5	7.5	24.28	34

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N1WF Series Flush Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Application

- Designed for indoor use to enclose controls, instruments, and components which do not require oil-tight or dust-tight protection.
- Ideal for applications where components may be easily mounted and wired prior to installation of wrapper and door.

Standards

- UL 50 Type 1
- CSA Type 1
- **Complies with**
  - NEMA Type 1
  - IEC 60529, IP20

Construction

- Three piece assembly consisting of a base, wrapper, and door.
- Components are attached and secured with metal screws.
- 14 gauge reverse formed base provides clearance for mounting hardware.
- Punched for left or right hinging of the door and ease of assembly.
- Wrapper is formed from 16 gauge steel, with no knock-outs in the sides.
- Flush mounting door assembly formed from 16 gauge steel.
- Door is fastened with a slotted quarter turn latch.
- A bonding stud is provided on the door and a grounding screw is provided for the enclosure.

Finish

- Base, wrapper and door are finished in ANSI 61 gray powder coating.

Accessories

- Flush lock kit (Part No. **1427BK**)
  ...see page ***428***
- Padlock Adaptor (Part No. **EJPA**)
  ...see page ***432***

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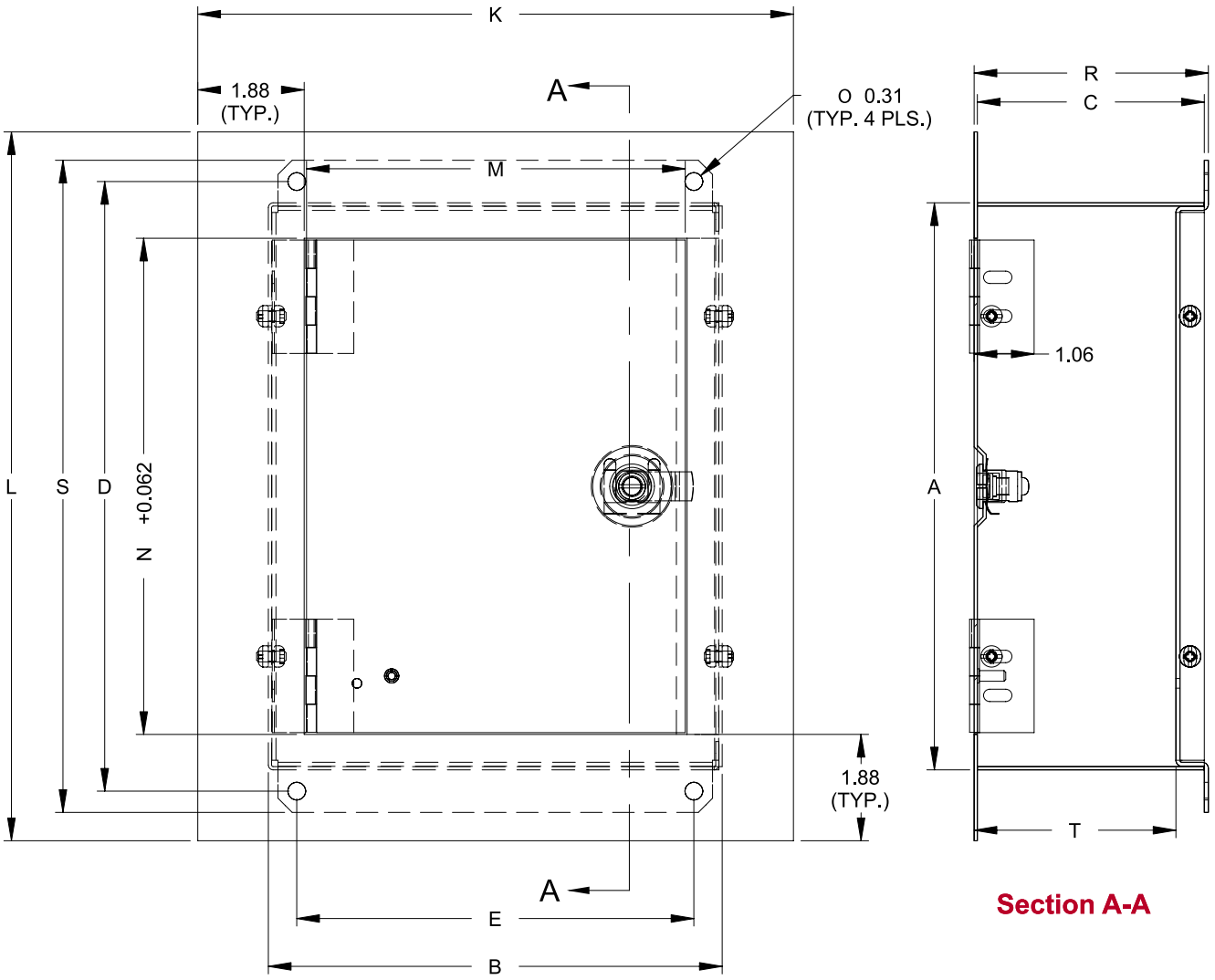
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N1WF Series Flush Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Front View

Section A-A

Part No.	Wrapper Size A	B	Mounting Centers C	D	E	Door M	N	Overall Dimensions K	R1	L	Base S	T1	Ship Wt. Lbs
N1WF864	8	6	4	8.75	5	4.46	6.68	8.5	4.13 - 4.6	10.5	9.5	3.5 - 3.9	6
N1WF1084	10	8	4	10.75	7	6.46	8.68	10.5	4.13 - 4.6	12.5	11.5	3.5 - 3.9	8
N1WF12104	12	10	4	12.75	9	8.46	10.68	12.5	4.13 - 4.6	14.5	13.5	3.5 - 3.9	11
N1WF16124	16	12	4	16.75	11	10.46	14.68	14.5	4.13 - 4.6	18.5	17.5	3.5 - 3.9	15
N1WF20164	20	16	4	20.75	15	14.46	18.68	18.5	4.13 - 4.6	22.5	21.5	3.5 - 3.9	22
N1WF24204	24	20	4	24.75	19	18.46	22.68	22.5	4.13 - 4.6	26.5	25.5	3.5 - 3.9	30

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Screw Cover Enclosures with Knockouts

NEMA 3R



Application

- Designed for use as a wiring/ junction box.
- Provides protection against rain, sleet, snow and dripping water.

Standards

- UL-50 Type 3R
- CSA Type 3R
- **Complies with:**
  - NEMA Type 3R
  - IEC 60529, IP24

Construction

- Formed and spot welded from 16 or 14 gauge galvanized steel.
- Drip-shield top and seam-free sides, front and back.
- Slip-on removable cover fastened with plated steel screws.
- Door handles on body type C enclosures.
- Embossed mounting holes on back of enclosure.
- Easily removed knockouts on bottom of enclosure.
- Padlocking hasp.
- No Gasket.

Finish

- Enclosure and cover are finished in ANSI 61 gray powder coating.

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Screw Cover Enclosures with Knockouts

NEMA 3R

Part No.	Body Type	A	B	C	D	Mounting E	Mounting F	Knockout Pattern (see next page)	Shipping Wt. lbs
C3R444SC	**A**	4	4	4	-	1.88	2.00	2-3	2
C3R644SC	**A**	6	4	4	-	1.88	1.06	2-3	2
C3R1244SC	**A**	12	4	4	-	1.88	1.06	2-3	3
C3R664SC	**A**	6	6	4	-	2.25	1.06	2-3-4	4
C3R864SC	**A**	8	6	4	-	2.25	1.06	2-3-4	5
C3R884SC	**A**	8	8	4	-	2.25	1.06	6-7-8-9	5
C3R1084SC	**A**	10	8	4	-	2.25	1.06	6-7-8-9	7
C3R1284SC	**A**	12	8	4	-	2.25	1.06	6-7-8-9	7
C3R10104SC	**A**	10	10	4	-	2.25	1.06	3-4-5-6-7	7
C3R12104SC	**A**	12	10	4	-	2.25	1.06	3-4-5-6-7	9
C3R12124SC	**A**	12	12	4	-	2.25	1.06	3-4-5-6-7	10
C3R18124SC	**A**	18	12	4	-	2.25	1.06	3-4-5-6-7	13
C3R18184SC	**B**	18	18	4	-	13.00	1.12	1-2-3-4-5-6-7-8-9	19
C3R666SC	**A**	6	6	6	-	2.25	1.06	2-3-4	5
C3R1866SC	**A**	18	6	6	-	2.25	1.06	2-3-4	12
C3R886SC	**A**	8	8	6	-	2.25	1.06	6-7-8-9	6
C3R1086SC	**A**	10	8	6	-	2.25	1.06	6-7-8-9	11
C3R10106SC	**A**	10	10	6	-	2.25	1.06	3-4-5-6-7	13
C3R1286SC	**A**	12	8	6	-	2.25	1.06	6-7-8-9	11
C3R12106SC	**A**	12	10	6	-	2.25	1.06	3-4-5-6-7	12
C3R12126SC	**A**	12	12	6	-	2.25	1.06	3-4-5-6-7	12
C3R15126SC	**A**	15	12	6	-	2.25	1.06	3-4-5-6-7	13
C3R16126SC	**A**	16	12	6	-	2.25	1.06	3-4-5-6-7	14
C3R18126SC	**A**	18	12	6	-	2.25	1.06	3-4-5-6-7	15
C3R18186SC	**B**	18	18	6	-	13.00	1.12	1-2-3-4-5-6-7-8-9	16
C3R24126SC	**B**	24	12	6	-	13.00	1.12	3-4-5-6-7	25
C3R24186SC	**B**	24	18	6	-	13.00	1.12	1-2-3-4-5-6-7-8-9	33
C3R24246SC	**B**	24	24	6	-	13.00	1.12	1-2-3-4-5-6-7-8-9	40
C3R888SC	**A**	8	8	8	-	2.25	1.06	6-7-8-9	8
C3R2488SC	**A**	24	8	8	-	2.25	1.06	6-7-8-9	17
C3R12128SC	**A**	12	12	8	-	2.25	1.06	3-4-5-6-7	13
C3R15128SC	**A**	15	12	8	-	2.25	1.06	3-4-5-6-7	14
C3R18128SC	**A**	18	12	8	-	2.25	1.06	3-4-5-6-7	19
C3R24168SC	**B**	24	16	8	-	13.00	1.12	3-4-5-6-7	22
C3R18188SC	**B**	18	18	8	-	13.00	1.12	1-2-3-4-5-6-7-8-9	25
C3R24188SC	**B**	24	18	8	-	13.00	1.12	1-2-3-4-5-6-7-8-9	38
C3R24208SC	**B**	24	20	8	-	13.00	1.12	1-2-3-4-5-6-7-8-9	39
C3R24248SC	**C**	24	24	8	12.04	13.00	1.12	1-2-3-4-5-6-7-8-9	44
C3R30248SC	**C**	30	24	8	15.04	13.00	1.12	1-2-3-4-5-6-7-8-9	53
C3R48368SC	**C**	48	36	8	24.04	33.00	1.50	1-2-3-4-5-6-7-8-9	150
C3R181810SC	**C**	18	18	10	9.04	13.00	1.12	1-2-3-4-5-6-7-8-9	25
C3R241810SC	**C**	24	18	10	12.04	13.00	1.12	1-2-3-4-5-6-7-8-9	38
C3R242410SC	**C**	24	24	10	12.04	13.00	1.12	1-2-3-4-5-6-7-8-9	49
C3R302410SC	**C**	30	24	10	15.04	13.00	1.50	1-2-3-4-5-6-7-8-9	55
C3R242412SC	**C**	24	24	12	12.04	13.00	1.12	1-2-3-4-5-6-7-8-9	54
C3R303012SC	**C**	30	30	12	15.04	27.00	1.50	1-2-3-4-5-6-7-8-9	125
C3R363012SC	**C**	36	30	12	18.04	27.00	1.50	1-2-3-4-5-6-7-8-9	128
C3R363612SC	**C**	36	36	12	18.04	33.00	1.50	1-2-3-4-5-6-7-8-9	130
C3R303016SC	**C**	30	30	16	15.04	27.00	1.50	1-2-3-4-5-6-7-8-9	127
C3R483616SC	**C**	48	36	16	24.04	33.00	1.50	1-2-3-4-5-6-7-8-9	155

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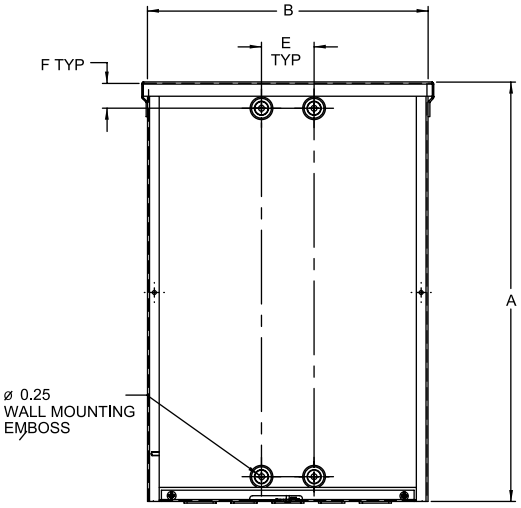
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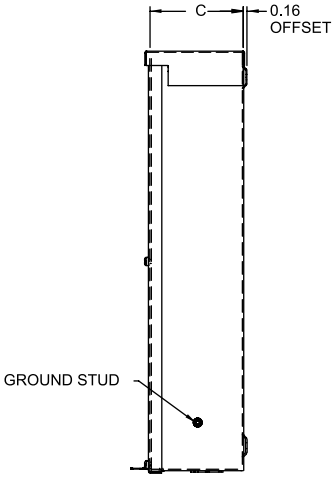
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Screw Cover Enclosures with Knockouts
NEMA 3R

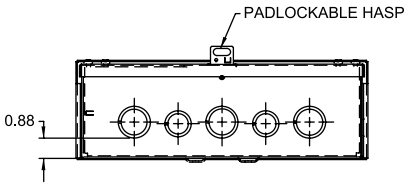
Body Type A



Front View - Cover Removed

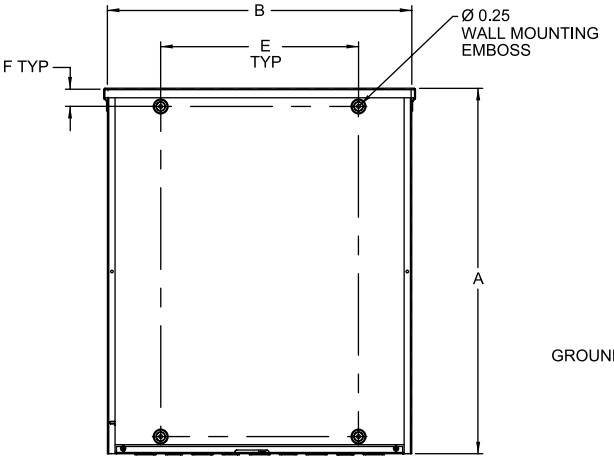


Side View

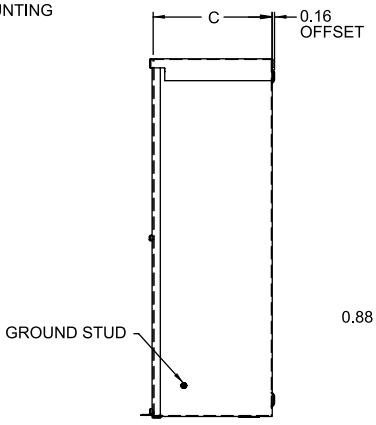


Bottom View
(SEE KNOCKOUT PATTERN FOR DETAILS)

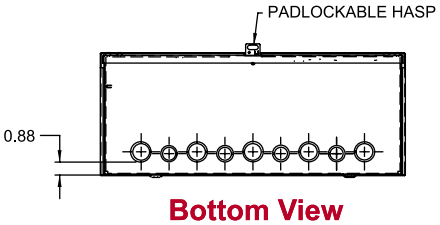
Body Type B



Front View - Cover Removed



Side View



Bottom View
(SEE KNOCKOUT PATTERN FOR DETAILS)

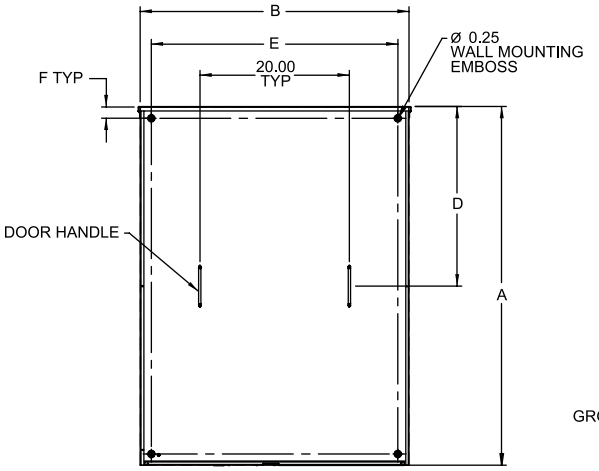
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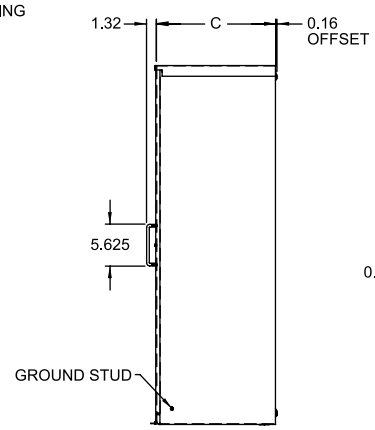
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Screw Cover Enclosures with Knockouts
NEMA 3R

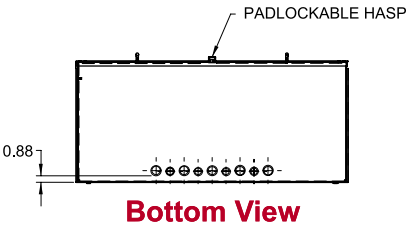
Body Type C



Front View - Cover Removed

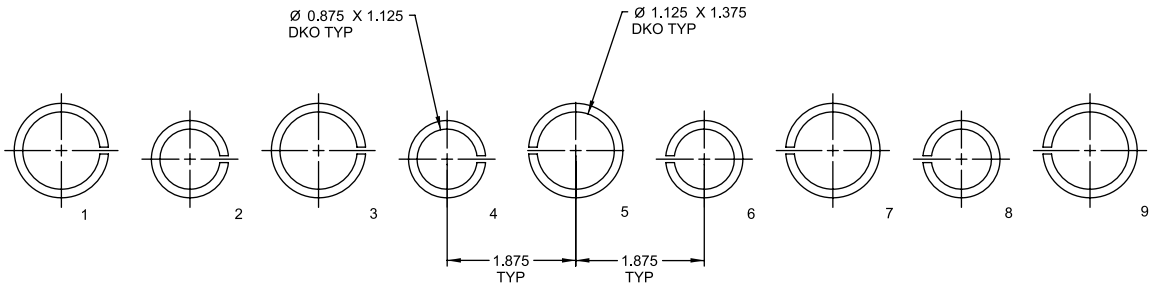


Side View



Bottom View

Knockout Pattern



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Small Hinged Cover Enclosures with Knockouts

NEMA 3R



Panel Sold Separately

Application

- Designed for use as a wiring/junction box.
- Provides protection against rain, sleet, snow and dripping water.

Standards

- UL-50 Type 3R
- CSA Type 3R
- **Complies with**
  - NEMA Type 3R
  - IEC 60529, IP24

Construction

- Formed and spot welded from 16 gauge galvanized steel.
- Drip-shield top and seam-free sides, front and back.
- Galvanized steel hinge has stainless steel pin.
- Provisions for padlocking on zinc-plated draw pull catch.
- Easily removed knockouts on bottom of enclosure.
- Panel studs provided for mounting optional panels.
- External mounting feet.
- Oil resistant gaskets are permanently secured.

Finish

- Enclosure and cover are finished in ANSI 61 gray powder coating.

Accessories

- Inner Panel...*see page* ***379***

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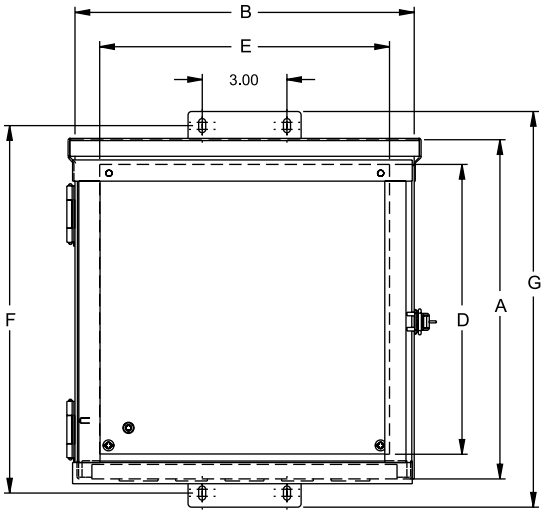
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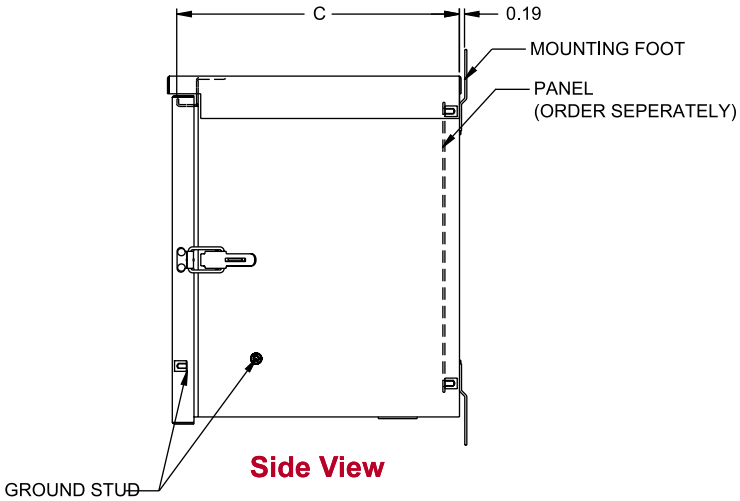
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Small Hinged Cover Enclosures with Knockouts

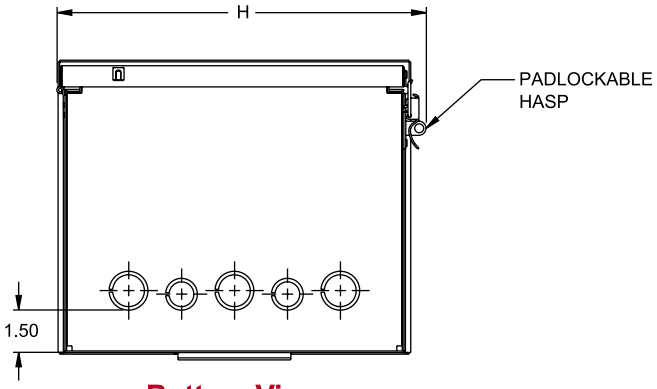
NEMA 3R



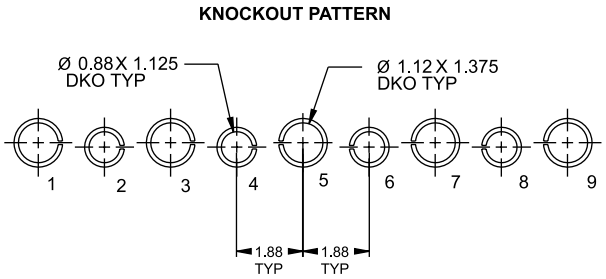
Front View - Cover Removed



Side View



Bottom View



Part No.	Optional Panel Part Number	A	B	C	Panel Size D	Panel Size E	Mounting F	Overall Dimensions G	Overall Dimensions H	Knockout Pattern	Shipping Wt. lbs
C3R644HCR	**N1JP64**	6	4	4	4.25	2.25	7.00	8.00	5.10	2-3-4	3
C3R664HCR	**N1JP66**	6	6	4	4.25	4.25	7.00	8.00	7.10	2-3-4	5
C3R864HCR	**N1JP86**	8	6	4	6.25	4.25	9.00	10.00	7.10	2-3-4	6
C3R886HCR	**N1JP88**	8	8	6	6.25	6.25	9.00	10.00	9.10	6-7-8-9	8
C3R1086HCR	**N1JP108**	10	8	6	8.25	6.25	11.00	12.00	9.10	6-7-8-9	9
C3R12106HCR	**N1JP1210**	12	10	6	10.25	8.25	13.00	14.00	11.10	3-4-5-6-7	11
C3R12126HCR	**N1JP1212**	12	12	6	10.25	10.25	13.00	14.00	13.10	3-4-5-6-7	13
C3R121210HCR	**N1JP1212**	12	12	10	10.25	10.25	13.00	14.00	13.10	3-4-5-6-7	20

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Medium Hinged Cover Enclosures without Knockouts

NEMA 3R



Panel Sold Separately

Application

- Designed for use as a wiring/ junction box.
- Provides protection against rain, sleet, snow and dripping water.

Standards

- UL-50 Type 3R
- CSA Type 3R
- **Complies with**
  - NEMA Type 3R
  - IEC 60529, IP24

Construction

- Formed and spot welded from 16 or 14 gauge galvanized steel.
- Drip shield top and seam-free sides, front and back.
- Stainless steel continuous hinge.
- Cover fastened with captive plated screws.
- Padlocking hasp.
- Collar studs provided for mounting optional panels.
- External mounting feet.
- Oil resistant gaskets are permanently secured.

Finish

- Enclosure and cover are finished inside and out in ANSI 61 gray powder coating.

Accessories

- Inner Panel...*see below*

Part No.	Optional Panel Part Number	Panel Size					Mounting		Overall	Shipping Wt. lbs
		A	B	C	D	E	F	G	H	
C3R16126HCR	**18P1309**	16	12	6	13.00	9.00	17.00	5.00	18.00	17
C3R16166HCR	**18P1313**	16	16	6	13.00	13.00	17.00	13.00	18.00	18
C3R18186HCR	**18P1515**	18	18	6	15.00	15.00	19.00	13.00	20.00	20
C3R20166HCR	**18P1713**	20	16	6	17.00	13.00	21.00	13.00	22.00	25
C3R20208HCR	**18P1717**	20	20	8	17.00	17.00	21.00	13.00	22.00	38
C3R24208HCR	**18P2117**	24	20	8	21.00	17.00	25.00	13.00	26.00	41
C3R24248HCR	**18P2121**	24	24	8	21.00	21.00	25.00	13.00	26.00	53
C3R30248HCR	**18P2721**	30	24	8	27.00	21.00	31.00	13.00	32.00	62
C3R30308HCR	**18P2727**	30	30	8	27.00	27.00	31.00	27.00	32.00	64
C3R181810HCR	**18P1515**	18	18	10	15.00	15.00	19.00	13.00	20.00	22
C3R242410HCR	**18P2121**	24	24	10	21.00	21.00	25.00	13.00	26.00	59
C3R302410HCR	**18P2721**	30	24	10	27.00	21.00	31.00	13.00	32.00	71

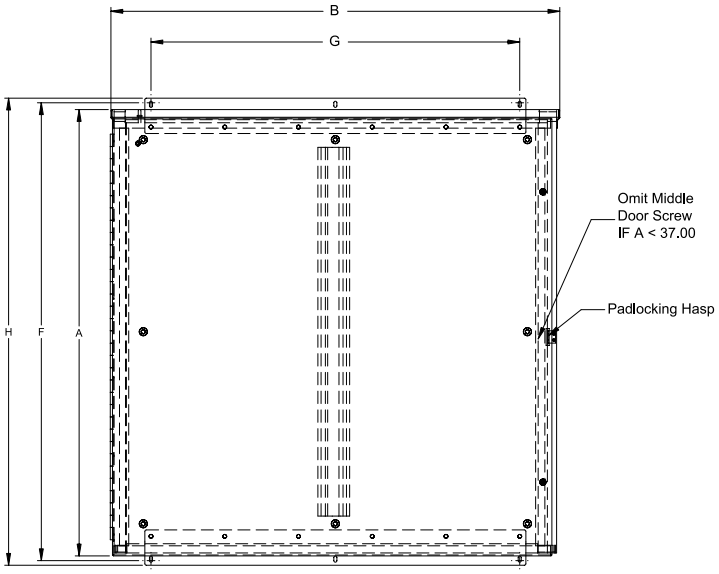
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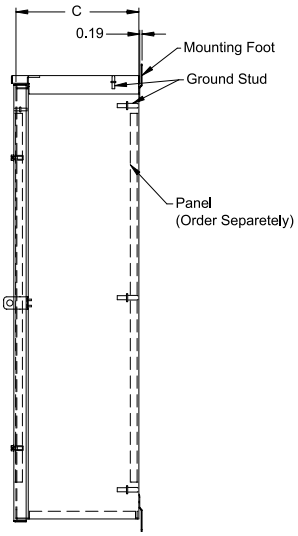
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Medium Hinged Cover Enclosures without Knockouts

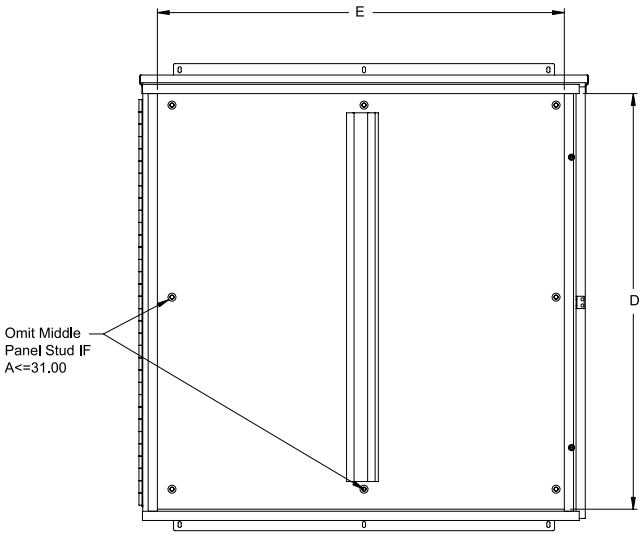
NEMA 3R



FRONT VIEW



SIDE VIEW



FRONT VIEW - COVER REMOVED

Part No.	Optional Panel Part Number	A	B	C	Panel Size D	Panel Size E	Mounting F	Mounting G	Overall H	Shipping Wt. lbs
C3R363610HCR	**18P3333**	36	36	10	33.00	33.00	37.00	30.00	38.00	82
C3R303012HCR	**18P2727**	30	30	12	27.00	27.00	31.00	27.00	32.00	102
C3R362412HCR	**18P3321**	36	24	12	33.00	21.00	37.00	13.00	38.00	102
C3R363012HCR	**18P3327**	36	30	12	33.00	27.00	37.00	27.00	38.00	103
C3R423012HCR	**18P3927**	42	30	12	39.00	27.00	43.00	27.00	44.00	113
C3R363612HCR	**18P3333**	36	36	12	33.00	33.00	37.00	27.00	38.00	119
C3R423612HCR	**18P3933**	42	36	12	39.00	33.00	43.00	27.00	44.00	131
C3R483612HCR	**18P4533**	48	36	12	45.00	33.00	49.00	27.00	50.00	153
C3R603612HCR	**18P5733**	60	36	12	57.00	33.00	61.00	27.00	62.00	176
C3R303016HCR	**18P2727**	30	30	16	27.00	27.00	31.00	27.00	32.00	105
C3R483616HCR	**18P4533**	48	36	16	45.00	33.00	49.00	27.00	50.00	155

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Hinged Cover Lift-Off Enclosures without Knockouts

NEMA 3R



Panel Sold Separately

Application

- Designed for use as a wiring/junction box.
- Provides protection against rain, sleet, snow and dripping water.

Standards

- UL-50 Type 3R
- CSA Type 3R
- **Complies with**
  - NEMA Type 3R
  - IEC 60529, IP24

Construction

- Formed and spot welded from 16 or 14 gauge galvanized steel.
- Extended height door and seam-free sides, front and back.
- Galvanized steel lift-off hinges with stainless steel pins.
- Cover fastened securely with zinc plated draw pull catches.
- Provisions for padlocking on zinc-plated draw pull catch.
- Embossed mounting holes on back.
- Oil resistant gaskets are permanently secured.

Finish

- Enclosure and cover are finished in ANSI 61 gray powder coating.

Accessories

- Panel mounting kit*...see below*
- Inner panel*...see below*
- Mounting feet*...see below*

Part Number	Optional Panel	Optional Panel Mounting Kit	Optional Mount Foot Kit	A	B	C	Optional Panel Size		Mount D	Overall Dim. E	F	G	H	Body Gauge	Ship Wt. lbs
C3R864HCLO	**14R0505**	**C3RHCLOPK1**	**C3RHCLOMFK1**	8	6	4	4.88	4.88	9	10	7.12	0.88	1.88	16	5
C3R886HCLO	**14R0705**	**C3RHCLOPK1**	**C3RHCLOMFK1**	8	8	6	6.75	4.88	9	10	9.12	0.88	1.88	16	7
C3R1086HCLO	**14R0707**	**C3RHCLOPK1**	**C3RHCLOMFK1**	10	8	6	6.75	6.88	11	12	9.12	0.88	1.88	16	9
C3R12106HCLO	**14R0909**	**C3RHCLOPK1**	**C3RHCLOMFK1**	12	10	6	8.75	8.88	13	14	11.12	0.88	1.88	16	11
C3R12126HCLO	**14R1109**	**C3RHCLOPK1**	**C3RHCLOMFK1**	12	12	6	10.75	8.88	13	14	13.12	0.88	1.88	16	12
C3R16126HCLO	**14R1311**	**C3RHCLOPK1**	**C3RHCLOMFK1**	16	12	6	12.75	10.88	17	18	13.12	0.88	1.88	16	15
C3R16166HCLO	**18P1313**	**C3RHCLOPK2**	**C3RHCLOMFK2**	16	16	6	13.00	13.00	17	18	17.12	2.38	2.38	16	23
C3R20166HCLO	**18P1713**	**C3RHCLOPK2**	**C3RHCLOMFK2**	20	16	6	17.00	13.00	21	22	17.12	2.38	2.38	16	27
C3R20208HCLO	**18P1717**	**C3RHCLOPK2**	**C3RHCLOMFK2**	20	20	8	17.00	17.00	21	22	21.12	2.38	2.38	16	36
C3R24208HCLO	**18P2117**	**C3RHCLOPK2**	**C3RHCLOMFK2**	24	20	8	21.00	17.00	25	26	21.12	2.38	2.38	16	43
C3R24248HCLO	**18P2121**	**C3RHCLOPK2**	**C3RHCLOMFK2**	24	24	8	21.00	21.00	25	26	25.12	2.38	2.38	14	49
C3R30248HCLO	**18P2721**	**C3RHCLOPK2**	**C3RHCLOMFK2**	30	24	8	27.00	21.00	31	32	25.12	2.38	2.38	14	57

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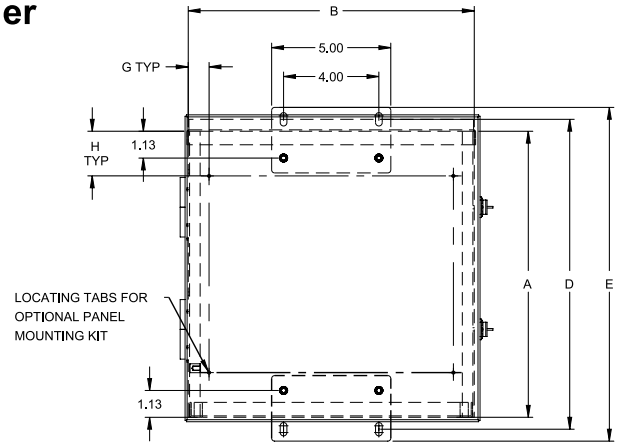
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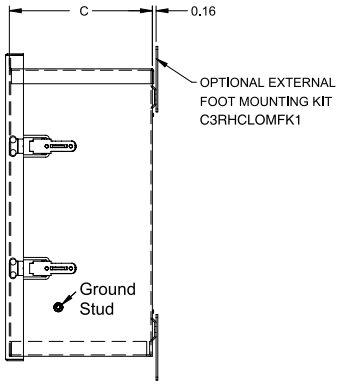
Hinged Cover Lift-Off Enclosures without Knockouts

NEMA 3R

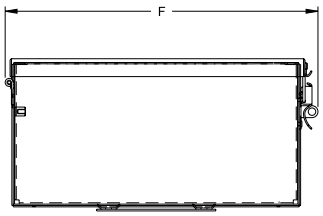
16x12 and Smaller



Front View

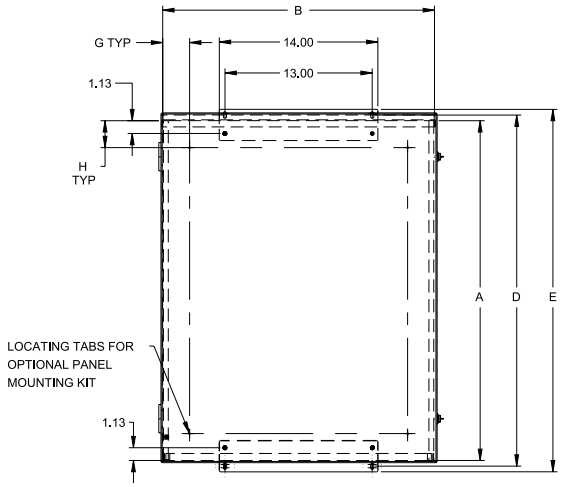


Side View

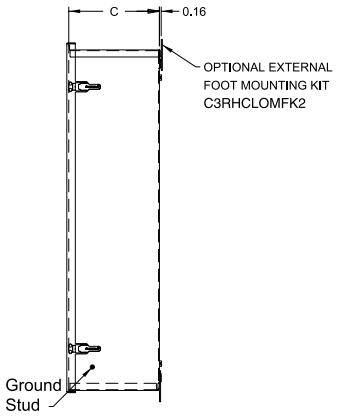


Bottom View

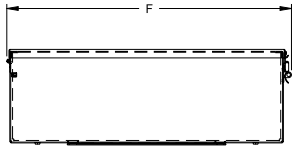
16x16 and Larger



Front View



Side View



Bottom View

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Side Mounting DTS Series
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Side Mounting DTS Series
4000 & 7500 BTU/H Stainless Steel -
NEMA 3R, 4, 4X **404**

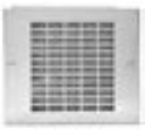
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The Need for Environment Control

With wide spread use of micro-electronics in today's control systems, temperature management takes on a new priority in order to ensure steady and reliable performance. The maintenance of a correct operating temperature may combine both cooling and/ or heating inside an enclosure which can protect against costly down time and system failures.

General Selection Considerations

Cooling

Conditions	Solution	Advantages	Disadvantages
Maximum desired enclosure temperature is 10°F or 5°C above maximum outside ambient.	Oversize the enclosure.	Easy to implement, no maintenance. Maintains NEMA rating of the enclosure.	Dissipates small amount of heat. Larger enclosure size takes up more space.
	Install ventilation louvers.	Economical solution, very little maintenance, easy to implement.	Dissipates limited amount of heat. Dirt, oil or fluids could enter the enclosure. NEMA rating is affected.
	Install filter fans.	Less expensive than air/refrigeration systems. Relatively high amount of heat removed, some termperature control by using thermostats.	Must maintain filters. NEMA rating can be affected. Limited use in hostile environments such as chemical applications.
	Use an air/air heat exchanger.	Easy to install, small power consumption, temperature control via thermostat. Maintains NEMA rating of the enclosure.	Must maintain filters.
Maximum desired enclosure temperature lower than maximum outside ambient.	Use an air conditioner.	Easy to install. Temperature control via factory installed thermostat. Removes large amounts of heat. Maintains NEMA rating of enclosure, dehumidifies enclosure air.	Must maintain filter. Generally not to be used when outside temperature is below 59°F (15°) or above 130°F (52°C).

Circulation

Conditions	Solution	Advantages	Disadvantages
Localized heat or 'hot spots'.	Install circulation fans in the enclosure.	Economical solution, no maintenance, easy to install. Maintains NEMA rating of the enclosure.	Dissipates small amount of heat.

Heating

Conditions	Solution	Advantages	Disadvantages
Outside temperature is below minimum allowable equipment operation range.	Heat with radiant heater.	Economical power consumption. Reliable, can be temperature controlled.	Consumes energy, takes up internal panel space.
Condensation occurs.	Heat with radiant heater to maintain temperature above the dewpoint.	Economical power consumption. Reliable, humidity can be controlled.	Consumes energy, takes up internal panel space.

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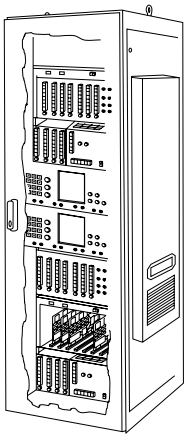
Cooling Products
Sizing an Air Conditioner

Sizing an Air Conditioner

The proper selection of an air conditioner is determined by the following steps:

Step 1) Internal heat load quoted as Watts that must be dissipated.
Step 2) The exposed surface area of the enclosure.
Step 3) Temperature differential required between maximum inside temperature and maximum outside ambient.
Step 4) Final calculation of the above.

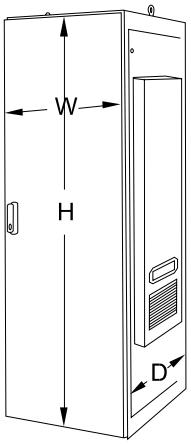
Step One



1 Watt = 3.413 BTU/H

Determine the internal heat load (in Watts) that must be dissipated.

Step Two



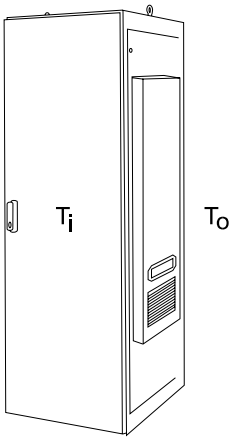
1 m^2 = 10.76 ft^2

Calculate the exposed surface area of the enclosure:

$$\frac{2(h'' \times w'') + 2(h'' \times d'') + (w'' \times d'')}{144} = \text{Area } (ft^2)$$

(Example for freestanding enclosure)

Step Three



1°C or 1°K△T=1.8°F△T

Determine the temperature differential by subtracting the maximum allowable temperature inside the enclosure (T_i) from the maximum ambient temperature outside the enclosure (T_o).

T_o-T_i = DT

Step Four

(Watts x 3.413) + [1.25 x Area ft^2 X DT (°F)] = BTU/H

Capacity Required BTU/H. Capacity Rating.

The DTS/DTT offering is available in the most popular selection of cooling capacities, sizes, voltages and mounting configurations. Available capacities range from 1,200 to 16,000 BTU/H in both side mounting and top mounting models. All models use powerful radial fans for maximum air circulation inside the enclosure in ambient temperatures of 125°F (+52°C). Models from 2,000 BTU/H capacity are equipped with thermal expansion valves for optimal use of the evaporator heat exchange surface under all operating conditions. For additional protection of the compressor motor, these valves are supplied as standard with Maximum Operating Pressure control devices (MOP). For energy conservation, the use of hot gas bypass valves is limited to the unloaded starting and control of large compressors from 8,000 BTU/H upwards. All air conditioners were developed, designed and subject to final inspections in accordance with international standards.

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Cooling Products

General Specifications for All Air Conditioners

Construction:	Outer shell of sheet steel.
Closed Loop Cooling:	Ambient outside air is never mixed with clean dry enclosure air.
Operating Temperature:	Minimum +46 F (+8 C) Maximum +125 F (52 C). Optional low ambient kit is available
Gasketing:	Is provided and/or installed on all units to maintain NEMA ratings specified.
Templates:	Provided on all units for easy layout of cutouts and mounting.
Power:	Available in 115 V 60 Hz, 110 V 50 Hz and 230 V, 460 50/60Hz 3 phase.
Filter:	Removable filter mat made from synthetic fibers are reusable and can be rinsed clean.
Refrigerants:	All models use environmentally friendly R134a.
Fans:	All blower motors are thermal protected and sealed with permanent lubricants.
Condensate Disposal:	Built in condensate evaporators are standard on most models. All units feature a condensate drain fitting complete with hose attachment.
Insulation:	Cold components, lines and evaporator compartment insulated for maximum efficiency and protection against condensation.
Quality Assurance:	Prior to charging, the refrigeration system is hermetically sealed with all joints brazed under protection gas atmosphere to exclude any internal scale. After a thorough leak test every unit undergoes safety and function checks, then is serialized and packed into sturdy boxes prior to shipment.
Installation Manuals:	Included with all models are detail drawings, mounting, schematic and wiring diagrams, a trouble shooting checklist and warranty information.

Product Summary

Side Mount Air Conditioners

Part No.	NEMA Protection	Rating BTU/H	Rated Voltage	Hz	Height	Width	Depth
DTS1200A115LG	12	1,200	115	60	13.00	14.76	7.48
DTS1200A230LG	12	1,200	230	50/60	13.00	14.76	7.48
DTS2000A115LG	12	2,000	115	60	17.52	12.40	10.04
DTS2000A230LG	12	2,000	230	50/60	17.52	12.40	10.04
DTS3081A115N4SS	4X	2,500	115	60	20.15	10.05	10.77
DTS3081A230N4SS	4X	2,500	115	60	20.15	10.05	10.77
DTS3041A115LG	12	2,500	115	60	20.15	10.05	10.77
DTS3041A230LG	12	2,500	230	50/60	20.15	10.05	10.77
DTS3500A115LG	12	3,500	115	60	36.00	15.35	7.87
DTS3500A230LG	12	3,500	230	50/60	36.00	15.35	7.87
DTS3141A115LG	12	4,000	115	60	29.46	15.55	9.38
DTS3161A115N3LG	3R/4	4,000	115	60	29.46	15.55	9.32
DTS3141A230LG	12	4,000	230	50/60	29.46	15.55	9.38
DTS3181A115N4SS	4X	4,000	115	60	29.46	15.55	9.32
DTS3161A230N3LG	3R/4	4,000	230	50/60	29.46	15.55	9.32
DTS3181A230N4SS	4X	4,000	230	50/60	29.46	15.55	9.32
DTS3241A115LG	12	7,500	115	60	47.61	15.55	10.65
DTS3261A115N3LG	3R/4	7,500	115	60	47.61	15.55	10.51
DTS3281A115N4SS	4X	7,500	115	60	47.61	15.55	10.51
DTS3241A230LG	12	7,500	230	50/60	47.61	15.55	10.65
DTS3261A230N3LG	3R/4	7,500	230	50/60	47.61	15.55	10.51
DTS3281A230N4SS	4X	7,500	230	50/60	47.61	15.55	10.51
DTS8000A115LG	12	8,000	115	60	53.15	15.63	10.63
DTS8000A230LG	12	8,000	230	50/60	53.15	15.63	10.63
DTS12000A115LG	12	12,000	115	60	53.15	15.63	10.63
DTS12000A230LG	12	12,000	230	50/60	53.15	15.63	10.63
DTS9841A460LG	12	16,000	460	60	60.98	19.09	14.17

A115 units can be operated 50 Hz at 110 V

Top Mount Air Conditioners

Part No.	NEMA Protection	Rating BTU/H	Rated Voltage	Hz	Height	Width	Depth
DTT4500A115LG	12	4,500	115	60	15.94	23.62	15.35
DTT4500A230LG	12	4,500	230	50/60	15.94	23.62	15.35

A115 units can be operated 50 Hz at 110 V and A460 units can be operated at 50Hz at 380V.

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Data Subject to change without notice

Side Mounting DTS Series

1200 BTU/H



Description

- Designed for side mounting where hot spot cooling or low capacity cooling is required.
- Compact design uses minimal surface area.
- Closed loop cooling ensures air is recirculated without ever mixing with contaminated ambient air.

Standards

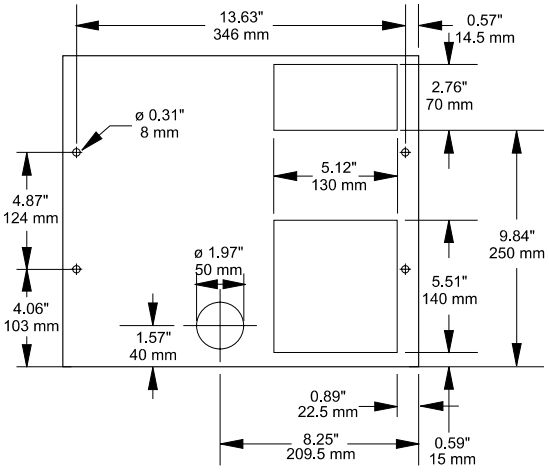
- Maintains NEMA 12 rating
- IP 54
- UR, cUR and CE

Features

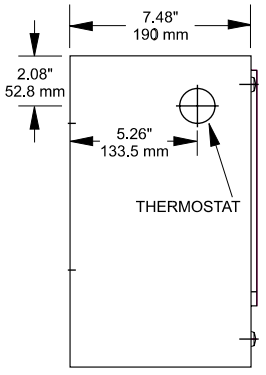
- R134a refrigerant.
- Thermostat control.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Line cord with plug (115 V).
- Washable filter mat protected within an easily removable grill.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Exterior case easily removable for field service.
- Q Mount allows unit to hang in place for easy installation.

Accessories

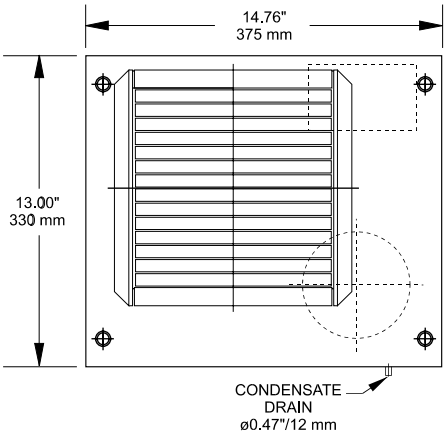
- Gaskets...*see page* ***400***
- Replacement filters...*see page* ***400***
- Replacement grill...*see page* ***400***



Drilling Template



Right Side View



Front View

Part Number	Ship Wt. lbs
DTS1200A115LG	42
DTS1200A230LG	42

Technical Data

Electrical Data	DTS1200A115LG	DTS1200A230LG
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz
	110 V 50 Hz	
Range of Operation	103-127 V	207-253 V
Power Consumption	200 W	200 W
Running Amps	2.2 A	1.3 A
Starting Current	15.7 A	9.5 A
Line Cord	With plug	Without plug

Refrigeration Data	
Rated Capacity	1,200 BTU/H (350 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	280 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 106 CFM
	External Circulation 230 CFM
Condensate Discharge	Direct via tube
Filter Mat	150 g/m²
Db Noise Level	≤ 62 dB(A)
Unit Weight	40 lbs (18 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

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Side Mounting DTS Series
2000 BTU/H

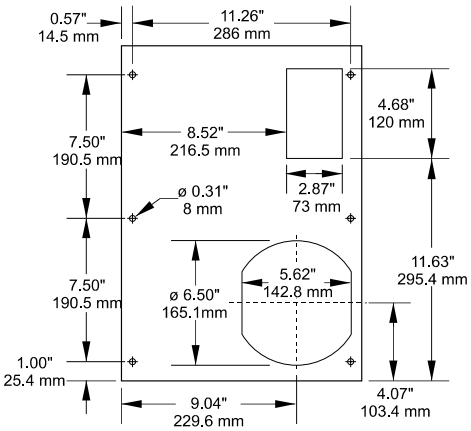


Description
- Compact design for side mounting on any enclosure surface where hot spot cooling or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

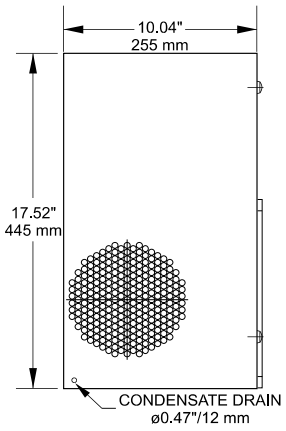
Standards
- Maintains enclosure's NEMA 12 rating
- IP 54
- UR, cUR and CE

Features
- R134a refrigerant.
- Thermostat control.
- Line cord with plug (115 V).
- Washable filter mat protected within an easily removable grill.
- Expansion valve permits increased efficiency through improved evaporator heat transfer and less frequent compressor operation.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp.
- Exterior case easily removable for field service.
- Q Mount allows unit to hang in place for easy installation.

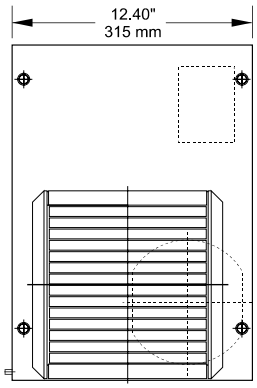
Accessories
- Gaskets...*see page* ***400***
- Replacement filters...*see page* ***400***
- Replacement grill...*see page* ***400***



Drilling Template



Left Side View



Front View

Part Number	Ship Wt. lbs
DTS2000A115LG	54
DTS2000A230LG	54

Technical Data

Electrical Data	DTS2000A115LG	DTS2000A230LG
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz
	110 V 50 Hz	
Range of Operation	103-127 V	207-253 V
Power Consumption	270 W	230 W
Running Amps	2.9 A	1.3 A
Starting Current	13.8 A	7.4 A
Line Cord	With plug	Without plug

Refrigeration Data	
Rated Capacity	2,000 BTU/H (580 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	300 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 230 CFM
	External Circulation 230 CFM
Condensate Discharge	Condensate evaporator
Filter Mat	150 g/m²
Db Noise Level	≤ 62 dB(A)
Unit Weight	51 lbs (23 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

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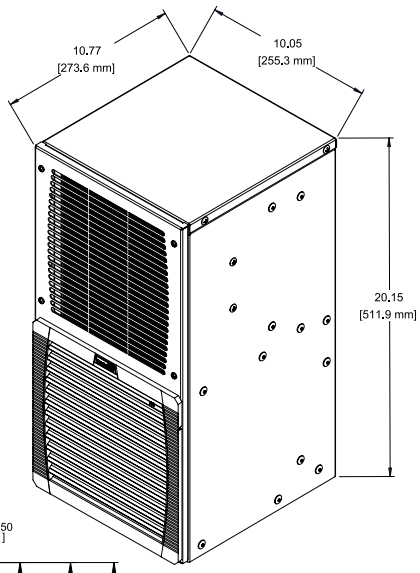
Side Mounting DTS Series

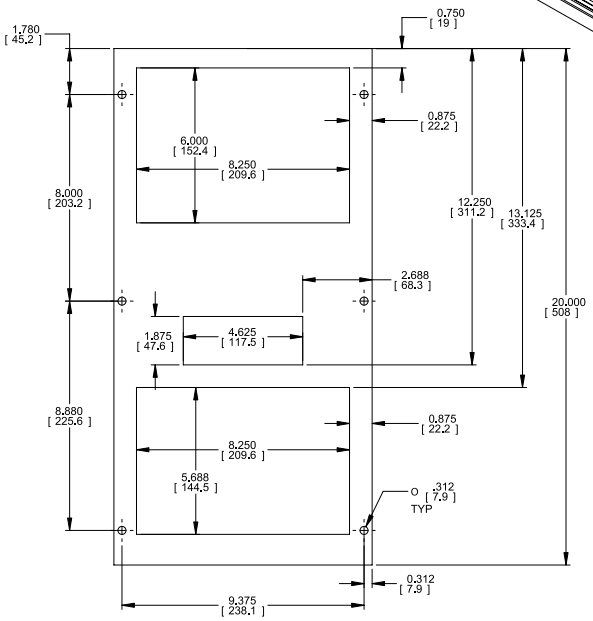
2500 BTU/H



Description

- Compact design for side mounting on any enclosure surface where hot spot or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.





Standards

- Maintains enclosure's NEMA 12 rating
- IP 54
- UL, cUL and CE

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Direct condensate discharge via drain hose.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Door contact for power down when enclosure door is opened.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp
- Easy install with "Click & Fit" system

Accessories

- Gaskets...*see page* ***400***
- Remote door switch...*see page* ***400***

Part Number	Ship Wt. lbs
DTS3041A115LG	56
DTS3041A230LG	56

Technical Data

Electrical Data	DTS3041A115LG	DTS3041A230LG
Rated Voltage	115v 60 Hz 110v 50 Hz	230v 50/60 Hz
Range of Operation	103-127v	207-253v
Power Consumption	690 W	724 W
Running Amps	6.0 A	3.3 A
Starting Current	28 A	14.4 A
Line Cord	With Plug	With Plug

Refrigeration Data	
Rated Capacity	2500 BTU/H (585 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	400 g
Adjustable Set Points	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+131°F (+55°C)
Min. Ambient Air Temp.	+59°F (+15°C)
Air Capacity (unrestricted)	Internal Circulation 191 CFM External Circulation 88 CFM
Condensate Discharge	Condensate Drain
Filter Mat	Filterless
Db Noise Level	≤ 64 dB(A)
Unit Weight	51 lbs (23 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

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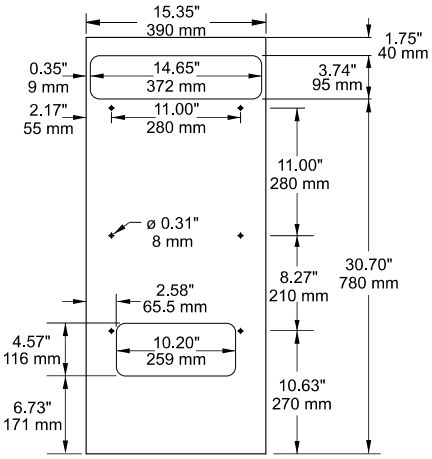
Side Mounting DTS Series
3500 BTU/H



Description
- Compact design for side mounting on any enclosure surface where hot spot or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

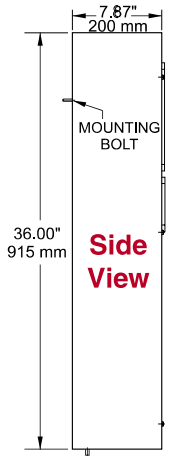
Standards
- Maintains enclosure's NEMA 12 rating
- IP 54
- UR, cUR and CE

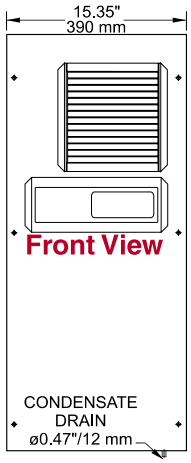
Features
- R134a refrigerant.
- Thermostat control.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Line cord with plug (115 V).
- Self-diagnostics on startup.
- Fault indication via LED light.
- Door contact for power down when enclosure door is opened.
- Washable filter mat protected within an easily removable grill.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp.
- Exterior case easily removable for resetting thermostat and field service.
- Q Mount allows unit to hang in place for easy installation.



Drilling Template

Note: Any unmarked radius is ø 0.79"R





Accessories
- Gaskets...*see page* **400**
- Lifting lugs...*see page* **400**
- Remote door switch...*see page* **400**
- Replacement filters...*see page* **400**
- Replacement grill...*see page* **400**

Part Number	Ship Wt. lbs
DTS3500A115LG	99
DTS3500A230LG	99

Technical Data

Electrical Data	DTS3500A115LG	DTS3500A230LG
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz
	110 V 50 Hz	
Range of Operation	103-127 V	207-253 V
Power Consumption	590 W	550 W
Running Amps	6.7 A	2.9 A
Starting Current	17.5 A	8.3 A
Line Cord	With plug	Without plug

Refrigeration Data	
Rated Capacity	3,500 BTU/H (1,014 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	480 g
Adjustable Set Points	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 247 CFM
	External Circulation 341 CFM
Condensate Discharge	Condensate evaporator
Filter Mat	150 g
Db Noise Level	≤ 64 dB(A)
Unit Weight	94 lbs (43 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

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Side Mounting DTS Series

4000 & 7500 BTU/H



7500 BTU/H unit shown

Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- Maintains enclosure's NEMA 12 rating
- IP 54
- UL, cUL and CE

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Hot gas bypass valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.

Accessories

- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400

Part Number	Ship Wt. lbs.
DTS3141A115LG	99
DTS3141A230LG	99
DTS3241A115LG	127
DTS3241A230LG	127

Technical Data

Electrical Data	DTS3141A115LG DTS3141A230LG	DTS3241A115LG DTS3241A230LG
Rated Voltage	115 V 60 Hz/ 230 V 50/60 Hz	115 V 60 Hz/ 230 V 50/60 Hz
Range of Operation	103-127 V/198-252 V	103-127 V/198-252 V
Power Consumption	950 W/860 W	1400 W/1400 W
Running Amps	7.2 A/4.0 A	14.6 A/6.3 A
Starting Current	17.1 A/9.3 A	26.8 A/16.5 A
Line Cord	Terminal Block	Terminal Block

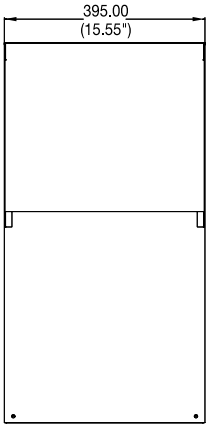
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All dimensions in inches unless specified otherwise

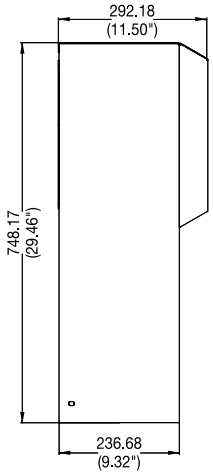
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Side Mounting DTS Series
4000 & 7500 BTU/H

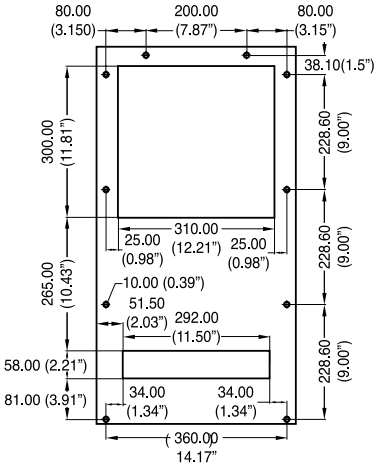
DTS 3141



Front View

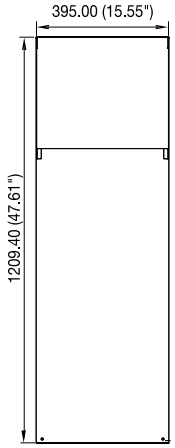


Side View

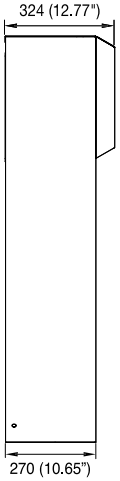


Drilling Template

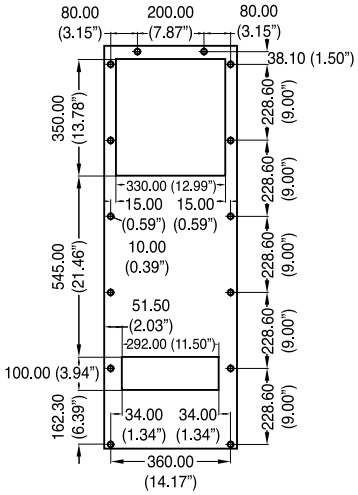
DTS 3241



Front View



Side View



Drilling Template

Refrigeration Data	DTS3141A115/ 230LG	DTS3241A115/ A230LG
Rated Capacity	4,000 BTU/H (1,172 Watts)	7,500 BTU/H (2,197 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	500 g	500 g
Adjustable Set Points	Factory setting +95°F (+35°C)	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 350 CFM External Circulation 350 CFM	Internal Circulation 580 CFM External Circulation 580 CFM
Condensate Discharge	Condensate Evaporator	Condensate Evaporator
Filter Mat	Filterless	Filterless
Db Noise Level	≤ 70 dB(A)	≤ 73 dB(A)
Unit Weight	80 lbs (36 kg)	101 lbs (46 kg)
Exterior Case	Galvanized sheet steel	Galvanized sheet steel
Finish	RAL7035 Light Grey powder finish	RAL7035 Light Grey powder finish
NEMA Rating	Enclosures IP 54/NEMA 12	Enclosures IP 54/NEMA 12

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Side Mounting DTS Series

8000 & 12000 BTU/H



Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- Maintains enclosure's NEMA 12 rating
- IP 54
- UR, cUR and CE

Features

- R134a refrigerant.
- Thermostat control.
- Hot gas bypass valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Washable filtermat protected within an easily removable grill.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.
- Versatile design maintains foot print for larger capacity units if required.

Accessories

- Gaskets...*see page* ***400***
- Lifting lugs...*see page* ***400***
- Remote door switch...*see page* ***400***
- Replacement filters...*see page* ***400***
- Replacement grill...*see page* ***400***

Part Number	Ship Wt. lbs.
DTS8000A115LG	189
DTS8000A230LG	189
DTS12000A115LG	189
DTS12000A230LG	189

Technical Data

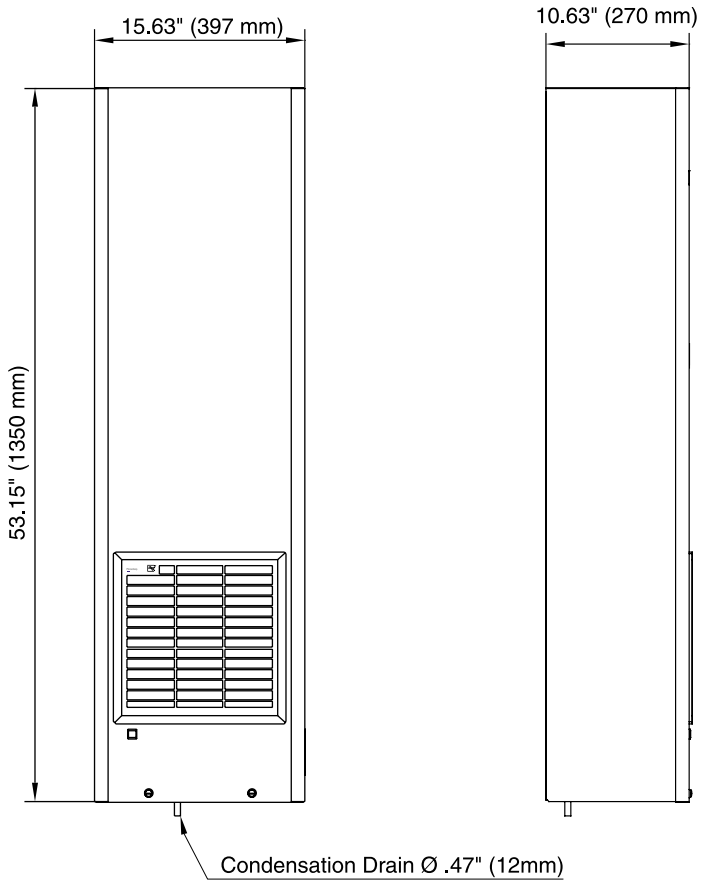
Electrical Data	DTS8000A115LG DTS8000A230LG	DTS12000A115LG DTS12000A230LG
Rated Voltage	115 V 60 Hz/ 230 V 50/60 Hz	115 V 60 Hz/ 230 V 50/60 Hz
Range of Operation	103-127 V/187-253 V	103-127 V/187-253 V
Power Consumption	2,100 W/1,800 W	2,300 W/2,000 W
Running Amps	21.0 A/12.5 A	21.0 A/12.5 A
Starting Current	52.0 A/46.2 A	52.0 A/46.2 A
Line Cord	8' Cord	8' Cord

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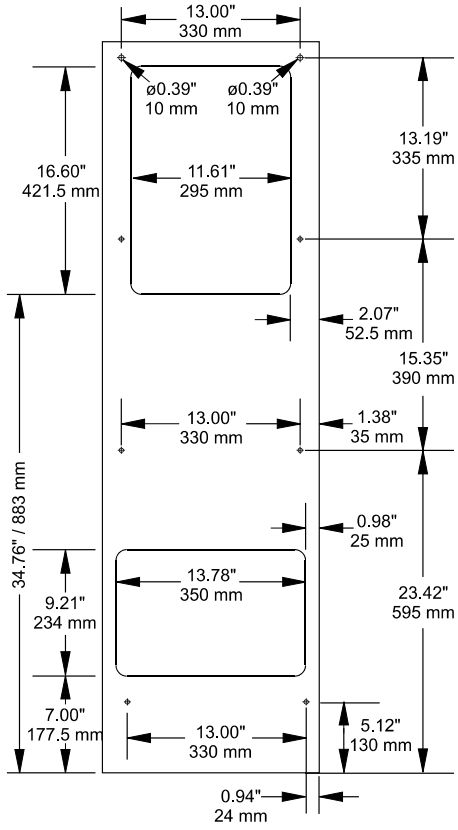
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Side Mounting DTS Series
8000 & 12000 BTU/H



Front View

Side View



Drilling Template

Refrigeration Data	DTS8000A115LG DTS8000A230LG	DTS12000A115LG DTS12000A230LG
Rated Capacity	8,000 BTU/H (2,340 Watts)	12,000 BTU/H (3,500 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	750 g	850 g
Adjustable Set Points	Factory setting +95°F (+35°C)	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 450 CFM External Circulation 589 CFM	Internal Circulation 530 CFM External Circulation 589 CFM
Condensate Discharge	Condensate Evaporator	Condensate Evaporator
Filter Mat	150 g/ m^2	150 g/ m^2
Db Noise Level	≤ 69 dB(A)	≤ 69 dB(A)
Unit Weight	160 lbs (72 kg)	165 lbs (75 kg)
Exterior Case	Galvanized sheet steel	Galvanized sheet steel
Finish	RAL7035 Light Grey powder finish	RAL7035 Light Grey powder finish
NEMA Rating	Enclosures IP 54/NEMA 12	Enclosures IP 54/NEMA 12

Technical references and DXF downloads available at www.hammfg.com

All dimensions in inches unless specified otherwise

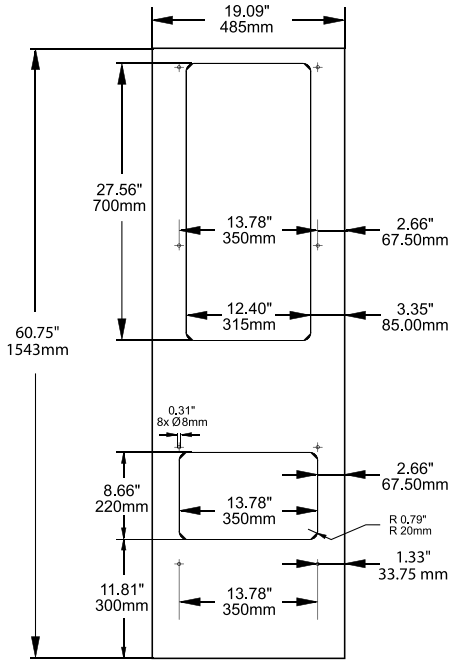
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Data Subject to change without notice

Side Mounting DTS Series
16,000 BTU/H





Drilling Template

Part Number	Ship Wt. lbs
DTS9841A460LG	210

Technical Data

Electrical Data	DTS9841A460LG
Rated Voltage	460v 60Hz 3 phase
Range of Operation	380v 50Hz / 460v 60Hz
Power Consumption	1891W / 2336W
Running Amps	4.2A / 3.6A
Starting Current	28.3A / 25.2A
Line Cord	Terminal Block

Refrigeration Data	
Rated Capacity	16,000 BTU/H (4,000 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	2,100 g
Adjustable Set Points	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+131°F (+55°C)
Min. Ambient Air Temp.	+59°F (+15°C)
Air Capacity (unrestricted)	Internal Circulation 882 CFM
	External Circulation 1,076 CFM
Condensate Discharge	Condensate Drain
Filter Mat	Filterless
Db Noise Level	≤ 70 dB(A)
Unit Weight	200 lbs (91 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7035 light grey finish
NEMA Rating	Enclosures IP 54/NEMA 12

Description
- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

Standards
- Maintains enclosure's NEMA 12 rating
- IP 54
- UR, cUR and CE

Features
- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Direct condensate discharge via drain hose.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Door contact for power down when enclosure door is opened.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp.

Accessories
- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400

Technical references and DXF downloads available at www.hammfg.com

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Top Mounting DTT Series
4500 BTU/H

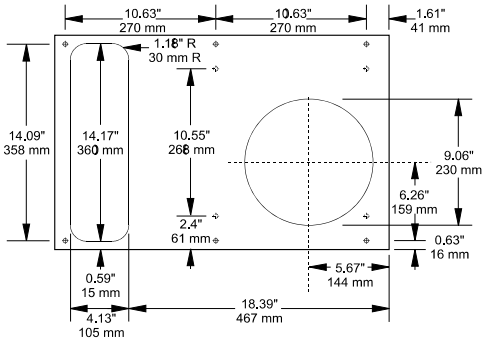


Description
- Designed for top mounting where space limitations do not allow side mounting on the enclosure surface.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.

Standards
- Maintains NEMA 12 rating
- IP 54
- UR, cUR, CE

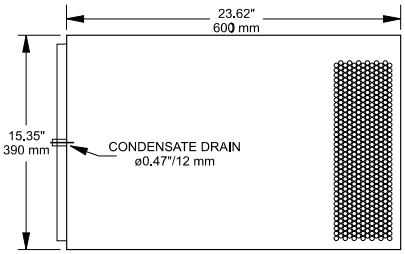
Features
- R134a refrigerant.
- Thermostat control.
- Expansion valve increases efficiency with improved evaporator heat transfer and less frequent compressor operation.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Line cord with plug (115 V).
- Washable filter mat protected within an easily removable grill.
- Gasket, mounting kit and template for cutout and drilling are included.
- Condensate drain hose and clamp.
- Volt free contact for high pressure failure.
- Exterior case easily removable for resetting thermostat and field service.
- Can accommodate crane hooks to assist installation.
- Versatile design maintains foot print through the series.

Accessories
- Gaskets...see page 400
- Lifting lugs...see page 400
- Remote door switch...see page 400
- Replacement filters...see page 400
- Replacement grill...see page 400

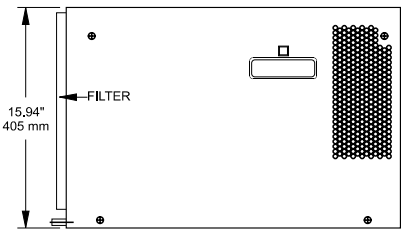


Drilling for cabinets with 15.75" depth only.

Drilling Template



Top View



Side View

Part Number	Ship Wt. lbs.
DTT4500A115LG	95
DTT4500A230LG	95

Technical Data

Electrical Data	DTT4500A115LG	DTT4500A230LG
Rated Voltage	115 V 60 Hz 100 V 50 Hz	230V 50/60 Hz
Range of Operation	103-127 V	207-253 V
Power Consumption	630 W	840 W
Running Amps	7.7 A	5.2 A
Starting Current	24.9 A	18.5 A
Line Cord	With plug	Without plug

Refrigeration Data	
Rated Capacity	4,500 BTU/H (1,300 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	480 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 547 CFM External Circulation 547 CFM
Condensate Discharge	Condensate evaporator
Filter Mat	150 g/m²
Db Noise Level	≤ 66 dB(A)
Unit Weight	90 lbs (41 kg)
Exterior Case	Galvanized sheet steel
Finish	RAL7032 beige powder finish
NEMA Rating	Enclosures IP 54/NEMA 12

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Air Conditioner Accessories

Neoprene Gasket Kit

- Replacement for standard supplied gasket.
- Self-adhesive cellular neoprene gasket.
- Supplied in 10 foot rolls, 0.19"x0.75".
- For side mount units greater than 3500 BTU/H, two gasket kits are required.

Part No.	1481DJ10

Replacement Grill

- Replacement grill for air conditioners.
- Packaged individually.

Black Part No.	RAL 7032 Beige Part No.	Use with Air Conditioner
PG3BK	**PG3RAL**	DTS1200 - DTS3500
PG5BK	**PG5RAL**	DTS8000 - DTS12000
n/a	**AFF1**	DTT4500

Replacement Filters

- Packaged in quantities of 5.
- Made of synthetic fibers.
- Re-usable up to 20 times.
- 100% resistant to humidity.
- Filters have a mass filtering level of 67%.

Part No.		Dimensions A	Dimensions B	Use With Air Conditioner	Filter Density (g/m^2)
DTSF3150	inch	8.30	8.30	DTS1200 - DTS6000	150
	mm	*210*	*210*		
DTSF5150	inch	11.00	11.00	DTS8000 - DTS12000	150
	mm	*280*	*280*		
DTTF5150	inch	11.81	11.81	DTT4500	150
	mm	*300*	*300*		

Remote Door Switch

- Permits convenient door activated on-off function of air conditioners. Mounts to flange of any Hammond enclosure.
- Can be wired normally open or normally closed.
- 115/230 V AC

Part No.	FLKDS



Lifting Lugs

- Packaged in quantities of 2.
- Used for lifting, transporting and installation of air conditioners.
- 8 mm diameter.
- For use with DTS3500 - DTS12000 and DTT4500.

Part No.	LL8

Water Condensate Evaporator



Part No.	KVDTX

- High performance evaporation kit
- Easy to retrofit on any cooling unit

Technical Data	
Max. Water Volume	13.5 oz (400 ml)
Evaporation Rate	3.4 oz/hr (100 ml/hr)
Electrical Data	
Voltage(s)	230v /115v
Frequency	50/60 Hz
Voltage Range	100-240v
Max. Power	125 W
Power Range	20-110 W
Nominal Current	0.5 A (230v) / 0.8 A (115v)
Starting Current	1.3 A
Zero Water Current	0.09 A (230v) / 0.18 A (115v)
Mechanical Data	
Height x Width x Depth	3.35" x 10.35" x 4.00" (85 x 263 x 102 mm)
Finish	Stainless Steel
Weight	2.6 lbs (1.175 Kg)

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All dimensions in inches unless specified otherwise

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Side Mounting DTS Series - NEMA 3R, 4, 4X

2500 BTU/H - Stainless Steel



Description

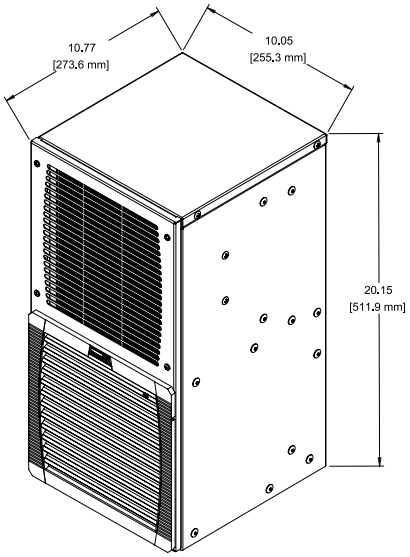
- Compact design for side mounting on any enclosure surface where spot cooling or low capacity cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Ideal for outdoor or very wet conditions.

Standards

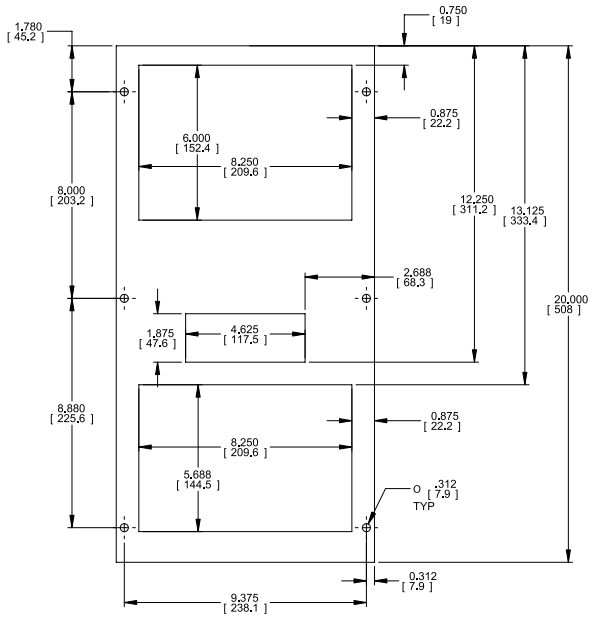
- UL, cUL, and CE
- Complies with
  - NEMA 3R, 4, 4X

Features

- Stainless steel body.
- R134a refrigerant.
- Thermostat control.
- Line cord with plug (115 V).
- Expansion valve permits increased efficiency through improved evaporator heat transfer and less frequent compressor operation.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE standard.
- Gasket, mounting kit, and template for cutout and drilling are included.
- Direct condensate discharge, drain hose and clamp.
- Q Mount allows unit to hang in place for easy installation.



Dimensional Drawing Only



Part Number	Ship Wt. lbs.
DTS3081A115N4SS	60
DTS3081A230N4SS	60

Technical Data

Electrical Data	DTS3081A115N4SS	DTS3081A230N4SS
Rated Voltage	115 V 60 Hz 110 V 50 Hz	230 V 50/60 Hz
Range of Operation	103-127 V	198-253 V
Power Consumption	690 W	724 W
Running Amps	6.0 A	3.3 A
Starting Current	28 A	14.4 A
Line Cord	With plug	With plug

Refrigeration Data	
Rated Capacity	2,500 BTU/H (732 Watts)
Type of Refrigerant	R134a
Refrigerant Charge	400 g
Adjustable Thermostat	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+131°F (+55°C)
Min. Ambient Air Temp.	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 191 CFM External Circulation 88 CFM
Condensate Discharge	Condensate drain
Filter Mat	Filterless
Db Noise Level	≤ 64 dB(A)
Unit Weight	55 lbs (25 kg)
Exterior Case	304 Stainless steel
Finish	Polish #3
NEMA Rating	3R, 4, 4X

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All dimensions in inches unless specified otherwise

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Side Mounting DTS Series - NEMA 3R, 4

4000 & 7500 BTU/H



4000 BTU/H Shown

Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- UL, cUL, CE
- Complies with
  - NEMA 3R, 4

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Expansion valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.
- Nema 3R/4 exterior galvanized sheet steel with powdercoat finish.

Part Number	Ship Wt. lbs.
DTS3161A115N3LG	104
DTS3161A230N3LG	104
DTS3261A115N3LG	129
DTS3261A230N3LG	129

Accessories

- Gaskets...*see page* ***400***
- Lifting lugs...*see page* ***400***
- Remote door switch...*see page* ***400***

Technical Data

Electrical Data	DTS3161A115N3LG	DTS3161A230N3LG	DTS3261A115N3LG	DTS3261A230N3LG
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz	115 V 60 Hz	230 V 50/60 Hz
Range of Operation	103-127 V	198-252 V	103-127 V	198-252 V
Power Consumption	950 W	860 W	1800 W	1800 W
Running Amps	7.2 A	4 A	14.6 A	6.3 A
Starting Current	17.1 A	9.3 A	26.8 A	16.5 A
Line Cord	Terminal Block	Terminal Block	Terminal Block	Terminal Block

Technical references and DXF downloads available at www.hammfg.com

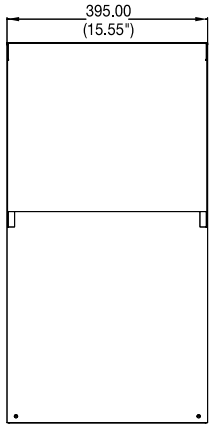
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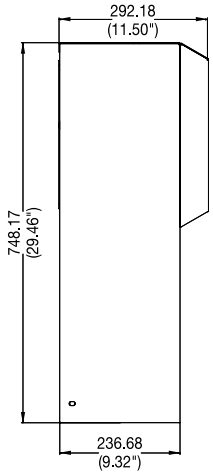
Side Mounting DTS Series - NEMA 3R, 4

4000 & 7500 BTU/H

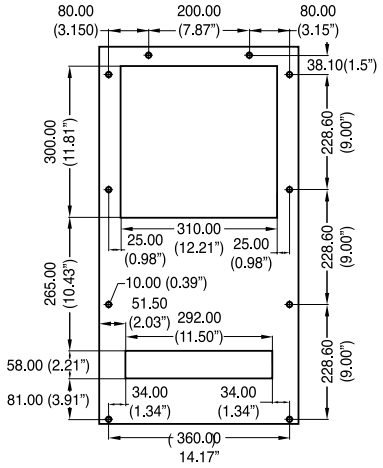
DTS 3161



Front View

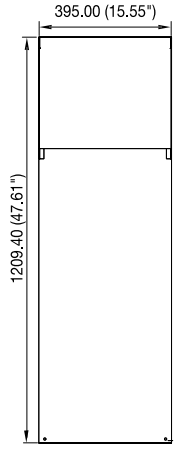


Side View

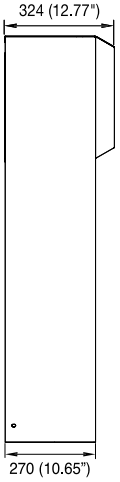


Drilling Template

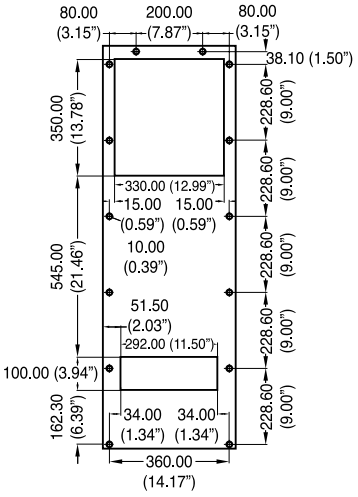
DTS 3261



Front View



Side View



Drilling Template

Refrigeration Data	DTS3161A115/230N3LG	DTS3261A115/230N3LG
Rated Capacity	4,000 BTU/H (1,172 Watts)	7,500 BTU/H (2,197 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	500 g	500 g
Adjustable Thermostat	Factory setting +95°F (+35°C)	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 350 CFM External Circulation 350 CFM	Internal Circulation 580 CFM External Circulation 580 CFM
Condensate Discharge	Condensate Evaporator	Condensate evaporator
Filter Mat	150 g/m²	150 g/m²
Db Noise Level	≤ 70 dB(A)	≤ 73 dB(A)
Unit Weight	84 lbs (38 kg)	120 lbs (46 kg)
Exterior Case	Galvanized Steel Powdercoat Finish	Galvanized Steel Powdercoat Finish
Finish	RAL7035 Light Grey powder finish (LG)	RAL7035 Light Grey powder finish (LG)
NEMA Rating	Enclosures IP56 /NEMA 3R/4	Enclosures IP56 /NEMA 3R/4

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Side Mounting DTS Series - NEMA 3R, 4, 4X

4000 & 7500 BTU/H - Stainless Steel



Light Grey 4000 BTU/H Shown

Description

- Designed for side mounting on any enclosure surface where high capacity system cooling is required.
- Closed loop cooling ensures clean enclosure air is recirculated without ever mixing with contaminated ambient air.
- Optimum air circulation with maximum clearance distance between warm inlet and cold outlet for reduced hot spot locations.

Standards

- UL, cUL, CE
- Complies with
  - NEMA 3R, 4, 4X

Features

- R134a refrigerant.
- Thermostat control accessible from inside enclosure.
- Expansion valve prevents evaporator freeze up while minimizing heavy inrush currents on large BTU/H units.
- Built in condensate evaporator.
- Continuous air circulation from high capacity fans.
- EMI/RFI suppression meets CE.
- Self-diagnostics on startup.
- Fault indication via LED light.
- Provision for door contact allowing power down when enclosure door is opened.
- Gasket, mounting kit and template for enclosure cutout and drilling are included.
- Condensate drain hose and clamp provided.
- Q Mount allows unit to hang in place for easy installation.
- Nema 4/4x exterior 304 stainless steel.

Accessories

- Gaskets...*see page* ***400***
- Lifting lugs...*see page* ***400***
- Remote door switch...*see page* ***400***

Part Number	Ship Wt. lbs.
DTS3181A115N4SS	107
DTS3181A230N4SS	107
DTS3281A115N4SS	144
DTS3281A230N4SS	144

Technical Data

Electrical Data	DTS3181A115N4SS	DTS3181A230N4SS	DTS3281A115N4SS	DTS3281A230N4SS
Rated Voltage	115 V 60 Hz	230 V 50/60 Hz	115 V 60 Hz	230 V 50/60 Hz
Range of Operation	103-127 V	198-252 V	103-127 V	198-252 V
Power Consumption	950 W	860 W	1800 W	1800 W
Running Amps	7.2 A	4 A	14.6 A	6.3 A
Starting Current	17.1 A	9.3 A	26.8 A	16.5 A
Line Cord	Terminal Block	Terminal Block	Terminal Block	Terminal Block

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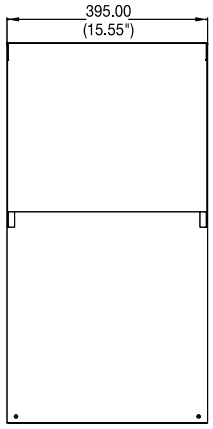
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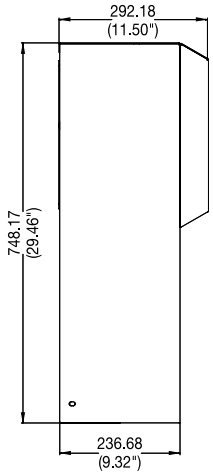
Side Mounting DTS Series - NEMA 3R, 4, 4X

4000 & 7500 BTU/H - Stainless Steel

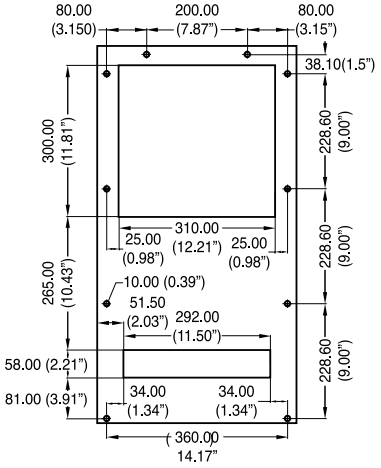
DTS 3181



Front View

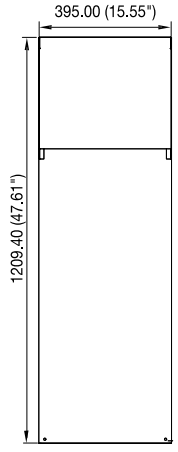


Side View

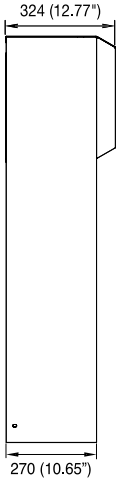


Drilling Template

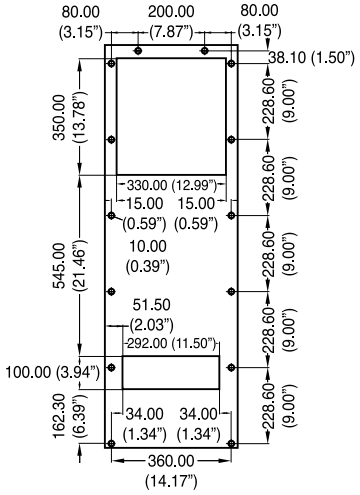
DTS 3281



Front View



Side View



Drilling Template

Refrigeration Data	DTS3181A115/230N4SS	DTS3281A115/230N4SS
Rated Capacity	4,000 BTU/H (1,172 Watts)	7,500 BTU/H (2,197 Watts)
Type of Refrigerant	R134a	R134a
Refrigerant Charge	500 g	500 g
Adjustable Thermostat	Factory setting +95°F (+35°C)	Factory setting +95°F (+35°C)
Max. Ambient Air Temp.	+125°F (+52°C)	+125°F (+52°C)
Min. Ambient Air Temp.	+46°F (+8°C)	+46°F (+8°C)
Air Capacity (unrestricted)	Internal Circulation 350 CFM External Circulation 350 CFM	Internal Circulation 580 CFM External Circulation 580 CFM
Condensate Discharge	Condensate Evaporator	Condensate evaporator
Filter Mat	150 g/m²	150 g/m²
Db Noise Level	≤ 70 dB(A)	≤ 73 dB(A)
Unit Weight	84 lbs (38 kg)	120 lbs (46 kg)
Exterior Case	304 Stainles Steel	304 Stainles Steel
Finish	Polish #3	Polish #3
NEMA Rating	Enclosures IP56 /NEMA 3R/4x	Enclosures IP56 /NEMA 3R/4x

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Blowers and Fans
General Selection Considerations

General Specifications
All Hammond blowers and filter fans are engineered for performance and built for reliability. This versatile line includes a blower, fan tray and filter fans.

Blowers and fans use forced convection cooling, which means ambient air flows through a filter into the enclosure to cool heated components. Both blowers and fans are sized in CFM (cubic feet per minute).
It is recommended that an exhaust filter be used in combination with the blower or filter fan to act both as an exhaust point for the hot internal air plus aid in the pressurization of the enclosure, reducing the chance of unfiltered air entering the enclosure. Whenever possible, the blower or filter fan should be located in the bottom third of the enclosure and the filtered exhaust grill placed as high as possible on the opposing side. Performance levels can be further increased by adding a second exhaust filter.

Sizing Blowers and Fans
To determine the CFM (cubic feet per minute) required in any standard situation, use the following calculation, (non-standard situations would consist of high air density - significantly more than 0.075 lbs per cubic foot.)

$$\text{CFM} = \frac{\text{Power to be dissipated (Watts)} \times 3.17}{\text{Maximum Allowable Internal Temperature (°F)} - \text{Maximum Ambient Temperature (°F)}}$$

Note - The calculation above is exact, but adding an additional 25% to the CFM level is a standard safety factor.

If the air density is high (significantly more than 0.075 lbs per cubic foot), use the number calculated above in the following formula:

$$\frac{\text{CFM} \times (0.075)}{\text{Non-standard Air Density (lbs per cubic foot)}}$$

Note: Ambient Temperature must be lower than maximum internal temperature for fan/blower to be effective.

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Packaged Twin Blowers

160 to 470 CFM



Description

- Each contains a quadruplex centrifugal blower powered by a single precision ball-bearing motor.
- These widely-used Packaged Twin Blowers deliver air from more than 50% of their 17" width.
- Internal neoprene isolation mounts reduce transmission of vibration to the enclosure.
- Can be mounted on panel rails or into a cutout in an enclosure.

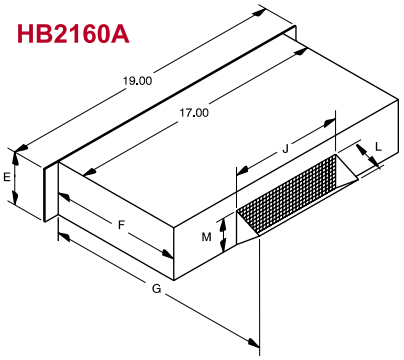
Features

- Capacities: 160 to 470 CFM.
- Heavy-gauge steel enclosures with EIA-notched flanges for rail mounting.
- Attractive 19 inch stainless steel grills.
- UR/CSA approved ball-bearing motors.
- Inlet air cools motor for longer life.
- Permanent filters.
- Exhaust guards included.
- Six foot (minimum) SJTW 3-wire cord.

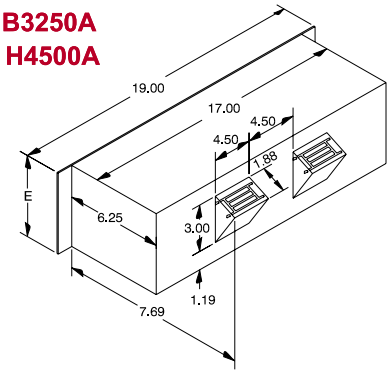
Accessories

- Filter coat...*see page* ***413***

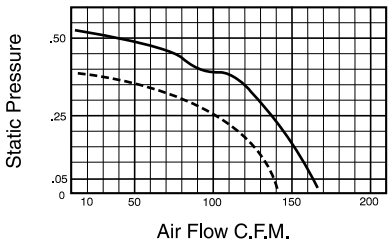
HB2160A



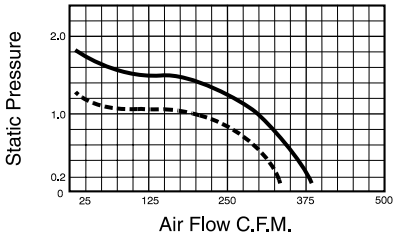
HB3250A & H4500A



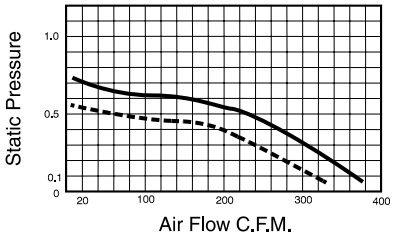
HB2160A



HB3250A



HB4500A



50 Hz
60 Hz

Part No.	Free Flow Air Delivery (CFM)	RPM Nominal	Ambient Temp. Min. F	Ambient Temp. Max. F	Panel Height Units	E	F	G	H	J	K	L	M	N	Ship Wt.lbs
HB2160A	160	1500	-20	250	2	3.50	8.75	10.50	-	7.50	-	2.25	2.25	-	10
HB3250A	300	3000	-20	250	3	5.25	6.25	7.69	4.50	4.50	0.63	1.88	3.00	1.19	18
HB4500A	470	3250	-20	250	4	7.00	8.25	10.25	4.63	4.75	1.00	2.50	4.00	1.44	23

Technical references and DXF downloads available at www.hammfg.com

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PF Filter Fans



PF3000 and PF2000

Description

- This line of fans provides innovative technology for fan cooling and pressurizing of industrial cabinets. A high quality filter fan provides an economical method of ensuring your enclosure does not overheat.
- Filtered passive ventilation can be provided by an exhaust filter for either convection cooling or in combination with a fan in forced air cooling.
- The slim-line design of this fan line is unique, when installed, the front louvered grill protrudes less than one quarter inch. The attractive grill maintains the sleek aesthetics of an enclosure system.

Standards

- UR, CUR and CE.
- Built to IP54 standards (except PF1000/PFA1000 - IP43 standards).
- Maintains NEMA 12 integrity of enclosure.
- Fan CSA Listed.

Features

- Available in 115V and 230V versions
- High performance fan motors with finger guards.
- ABS-FR grills (except PF1000 Series which is polystyrene FR).
- Durable, reusable filter mat.
- Grills are black allowing for a complementary match to all cabinet colors.
- Integral gasket to seal against enclosure. (except PF1000 - use PFG1000)

Easy Installation

- The patented "Click and Fit" system allows for rapid filter fan and exhaust filter installation without screws.
- After using the convenient cutout template (provided with every unit), the fan and/or exhaust filter just snaps into the opening.

Options

- Reverse flow (exhaust) available on 5,6,7000 models

Accessories

- Exhaust filters...*see page* ***410***
- Replacement grills...*see page* ***410***
- Replacement filters...*see page* ***410***

Part No.	Voltage	Free Flow Air Delivery (CFM)	Air Delivery w/Exhaust (CFM)	Max. Static Pressure (Pa)	Filter Density (g/m^2)	Filtering Level	Sound Level (dB)	Connector Type	Ambient Temp. °F Max/Min	Comparable IP Standard	Ship Wt. lbs
PF1000	115	16	10	29	150	73%	39	2 - 12" wires	140/14	IP43	1.5
PF2000	115	38	28	69	150	73%	49	terminal strip	122/14	IP54	2
PF2500	115	89	62	57	150	73%	55	terminal strip	122/14	IP54	4
PF3000	115	169	142	89	150	73%	55	terminal strip	122/14	IP54	4
PF5000	115	324	249	205	150	73%	69	terminal strip	122/14	IP54	7
PF6000	115	410	295	225	150	73%	71	terminal strip	122/14	IP54	8
PF7000	115	506	368	158	150	73%	72	terminal strip	122/14	IP54	8
PF1000230	230	16	10	29	150	73%	39	2 - 12" wires	140/14	IP43	1.5
PF2000230	230	38	28	69	150	73%	49	terminal strip	122/14	IP54	2
PF2500230	230	89	62	57	150	73%	55	terminal strip	122/14	IP54	4
PF3000230	230	169	142	89	150	73%	55	terminal strip	122/14	IP54	4
PF5000230	230	324	249	205	150	73%	69	terminal strip	122/14	IP54	7
PF6000230	230	410	295	225	150	73%	71	terminal strip	122/14	IP54	8
PF7000230	230	506	368	158	150	73%	72	terminal strip	122/14	IP54	8

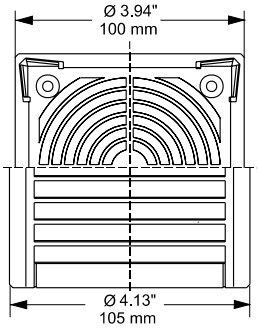
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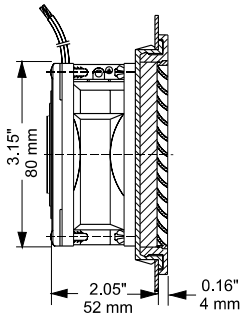
All dimensions in inches unless specified otherwise

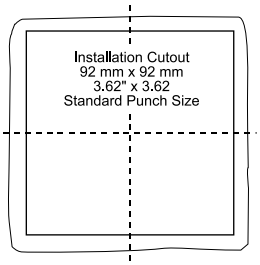
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Mechanical Data:

PF 1000

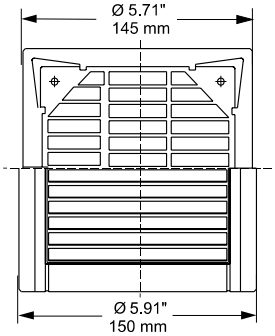


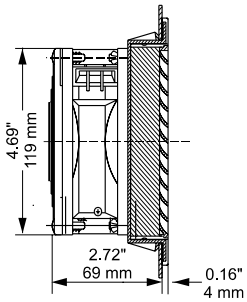


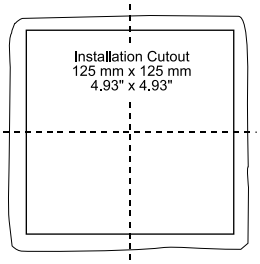


Installation Cutout

PF 2000

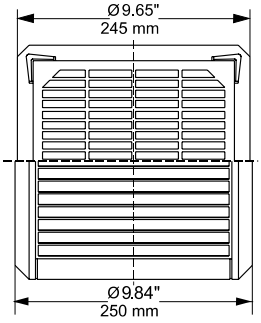


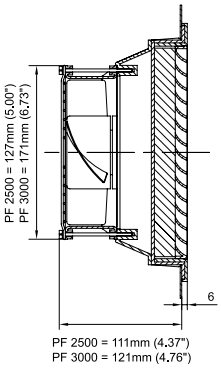


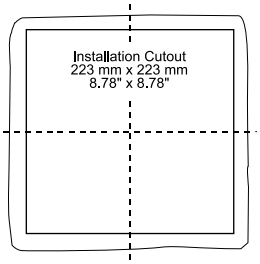


Installation Cutout

PF 2500 & 3000

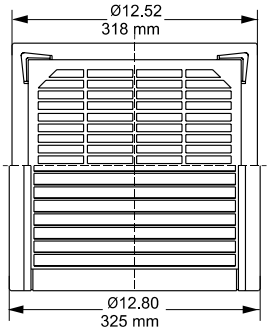


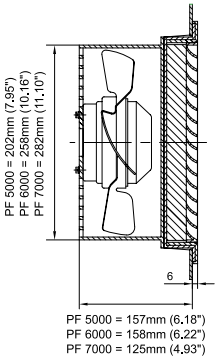


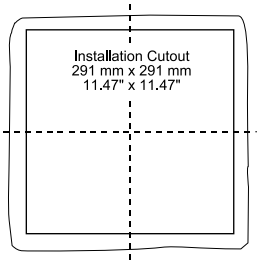


Installation Cutout

PF 5000, 6000 & 7000







Installation Cutout

Note: All cutout tolerances +1/- 0 mm

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Fan Accessories



Exhaust Filters

- Built to IP54 standards (except PFA1000 - IP43 standards).
- ABS-FR grills (except PF1000 Series which is polystyrene FR).
- Self-extinguishing, re-usable filter mat.
- Grills are black to complement all cabinet colors.
- Grills also available (see below)
- Integral gasket seals against enclosure.

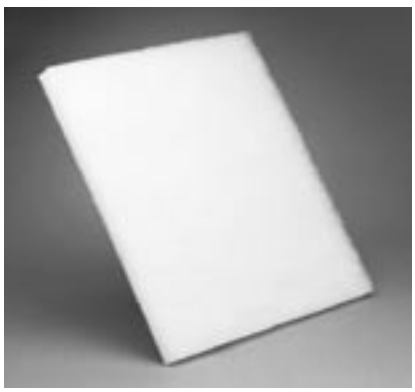
Part No.	Filter Density (g/m^2)	Filtering Level	Comparable IP Standard
PFA1000	150	73%	IP43
PFA2000	150	73%	IP54
PFA3000	150	73%	IP54
PFA5000	150	73%	IP54



Replacement Grill

- Packaged individually.
- Consists of replacement grill only.

Black Part No.	RAL7032 Beige Part No.	Use With Filter Fan	Use With Exhaust Filter
PG1BK	**PG1RAL**	PF1000	PFA1000
PG2BK	**PG2RAL**	PF2000	PFA2000
PG3BK	**PG3RAL**	PF2500/PF3000	PFA3000
PG5BK	**PG5RAL**	PF5000/PF6000/PF7000	PFA5000



Replacement Filters

- Packaged in quantities of 5.
- Made of self-extinguishing synthetic fibers.

Part No.		Dimensions A	Dimensions B	Use With Filter Fan	Filter Density (g/m^2)
PFF1000	inch	3.40	3.40	PF1000	150
	mm	*85*	*85*		
PFF2000	inch	4.50	4.50	PF2000	350
	mm	*115*	*115*		
PFF3000	inch	8.30	8.30	PF2500/PF3000	350
	mm	*210*	*210*		
PFF5000	inch	11.00	11.00	PF5000/PF6000/PF7000	350
	mm	*280*	*280*		

Call Hammond for other Cooling Solutions....

- Intergral Door Air Conditioners
- Air/Water Heat Exchangers
- Custom Air/Air Heat Exchangers
- EMC Filter Fans
- other customer cooling solutions through our knowlegeable Pfannenberg experts

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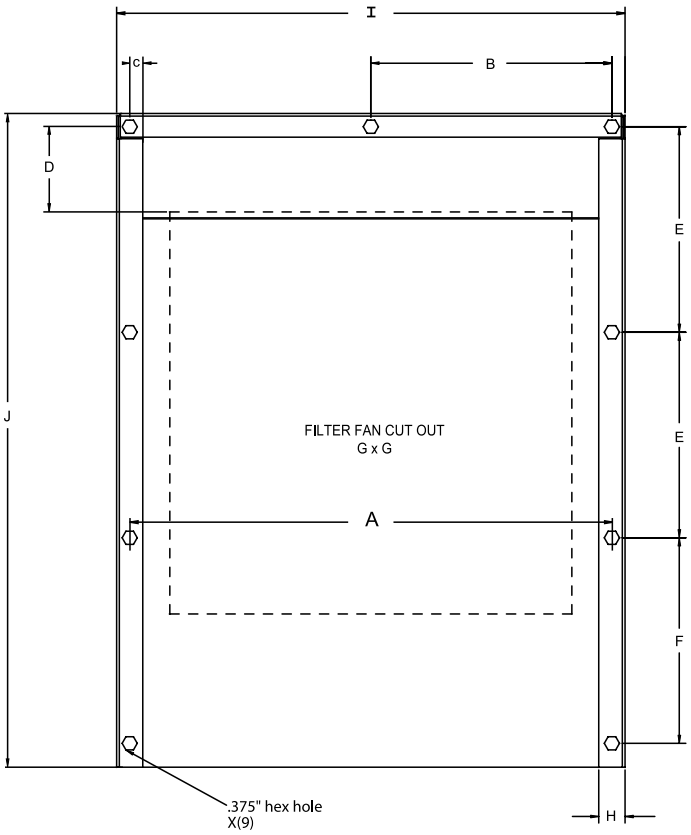
Filterfan Rainhoods - NEMA 3R

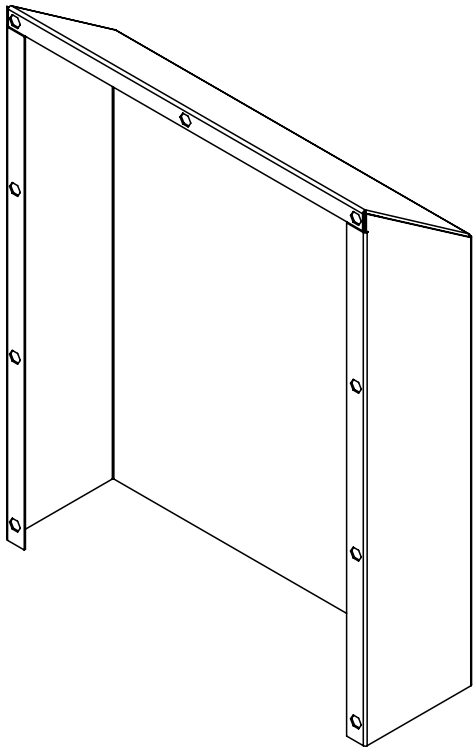


Applications

- NEMA 3R / Outdoor Rainhoods Standard Filterfans
- Fits sizes PF 2000, PF 25/3000 & PF 5/6/7000 Units
- 304 Stainless Steel Design for use on Washdown NEMA 4X enclosures
- Due to dust protection regulations, NEMA 4/4X rating on these systems is not possible.
- Gasket and sealing washers included.

Part No.	Goes With	Color
PFRH2000LG	PF/PFA2000	RAL7035
PFRH2000GY	PF/PFA2000	ANSI 61 Grey
PFRH2000SS	PF/PFA2000	304 Stainless Steel
PFRH3000LG	PF/PFA2500/3000	RAL7035
PFRH3000GY	PF/PFA2500/3000	ANSI 61 Grey
PFRH3000SS	PF/PFA2500/3000	304 Stainless Steel
PFRH5000LG	PF/PFA5000/6000/7000	RAL7035
PFRH5000GY	PF/PFA5000/6000/7000	ANSI 61 Grey
PFRH5000SS	PF/PFA5000/6000/7000	304 Stainless Steel





Series No.	A	B	C	D	E	F	G	H	I	J
PFRH2000	6.85	N/A	0.97	1.48	4.75	N/A	4.92	0.75	7.60	10.56
PFRH3000	10.79	5.39	1.00	2.50	6.82	N/A	8.78	0.75	11.54	14.69
PFRH5000	13.74	6.87	1.14	2.15	5.86	5.86	11.45	0.75	14.49	18.63

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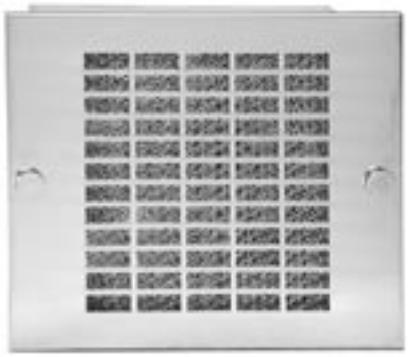
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Filtered Fan Boxes and Filter Grills



Filtered Fan Box



Filter Grill

Description

- In a typical cooling arrangement, the filtered fan box pulls air into the enclosures and the filter grill is used as an air outlet.
- The washable aluminum filter grill and the air filter are easily accessible and can be removed for cleaning.
- The filtered fan boxes are available in either 115 VAC or 230 VAC, 50/60 Hz.
- Filtered passive ventilation can be provided by an exhaust filter for either convection cooling or in combination with a fan in forced air cooling.

Standards

- UR/CUR/CE approved fan motors.
- CSA listed on fan only.

Features

- 115 VAC or 230 VAC, 50/60 Hz.
- 12" lead wires.
- Exceptionally quiet operation.
- Versatile mounting and adaptability.
- Heavy-gauge steel construction.
- Attractive stainless steel grills.
- Shipped with air flow to pressurize. Can be user modified to exhaust.
- Aluminum filter is coated with adhesive baffle surfaces for dust and dirt collection. Can be recoated after cleaning for optimum performance.
- Drilling template included.
- NOTE: One grill and filter are included with each fan package. Normally, an additional exhaust grill and filter are required for each installation and must be ordered separately.

Accessories

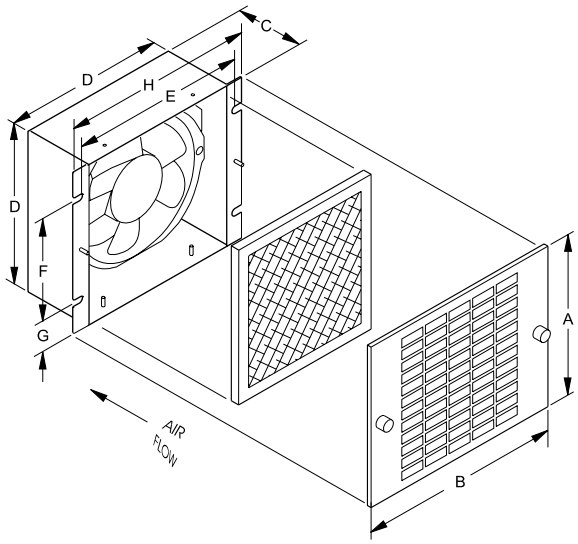
- Filter coat...*see page* ***413***
- Replacement Filter...*see page* ***413***

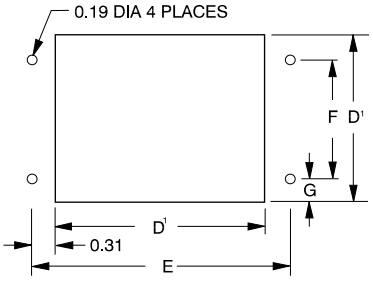
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Filtered Fan Boxes and Filter Grills





Cutout Detail

Filtered Fan Boxes

Part No.	Free Flow Air Delivery CFM	Volts	RPM Nominal	Running Amps	Watts	A	B	C	D	D¹	E	F	G	H	Ship Wt. lbs
XF4115	105	115	3000	0.18	15	6.13	7.38	2.38	5.63	5.75	6.38	4.13	0.78	7.0	5
XF4230	105	230	3000	0.09	15	6.13	7.38	2.38	5.63	5.75	6.38	4.13	0.78	7.0	5
XF6115	220	115	3300	0.29	33	7.63	8.88	3.00	7.13	7.25	7.88	4.50	1.34	8.5	6
XF6230	220	230	3300	0.15	33	7.63	8.88	3.00	7.13	7.25	7.88	4.50	1.34	8.5	6
XF10115	560	115	1600	0.87	60	11.63	13.00	4.56	11.13	11.25	11.88	6.88	2.16	12.5	12
XF10230	560	230	1600	0.45	60	11.63	13.00	4.56	11.13	11.25	11.88	6.88	2.16	12.5	12

Exhaust Grill and Filters

Part No	A	B	D	E¹	F¹	H¹
XFG4	6.13	7.38	5.63	6.38	4.13	7.00
XFG6	7.63	8.88	7.13	7.88	4.50	8.50
XFG10	11.63	13.00	11.13	11.88	6.88	12.50

Replacement Filters

Part No	Pkg. Qty.
XFF4	3
XFF6	3
XFF10	3

¹ Dimension for mounting and cabinet cutout. Secure sheet metal with #8 hardware.



Filter Coat

- Provides a filter adhesive with a grease-like consistency which absorbs and traps dust particles.
- 10 oz. bottle with environmentally friendly trigger spray.

Part No.	1475Q

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Fan Kits



Filter Fan Grills

- Mounts easily with 4 screws using the template provided.
- All mounting hardware included.
- Standard 80mm/3.15" and 120mm/4.00" fans can be attached with hardware provided to make a filter fan.
- Can be used alone as an enclosure exhaust.
- Moulded in flame retardant ABS.
- Flame retardant synthetic filter supplied.
- Integral gasket on reverse of grill seals against enclosure surface.
- Available in black, RAL7032 beige and ASA61/RAL7011 gray to match enclosures.

Accessories

- Spare hardware kit, Part No. **1421F4**

Black Part No.	Beige Part No.	Gray Part No.	H	W	Optional Compatible Fan Part No.	Size	CFM	Repl. Filter (pkg. 5)
XPFA80BK	**XPFA80CG**	**XPFA80GY**	4.13	4.13	**FAN80AC115**	80mm/3.15"	32	PFF1000
XPFA120BK	**XPFA120CG**	**XPFA120GY**	5.91	5.91	**DNMF100AC115**	120mm/4.70"	102	PFF2000

AC Fans and Guards



Fan Cords and Daisy Chains (10 amp, 115V)

Part No.	Description	Lead Length (In)	Connector	Fan End Termination
DNMFC	Fan Cord	24"	Straight	none
DNFC48P	Fan Cord	48"	45°	2 pin 115V plug
DNFC72P	Fan Cord	72"	45°	2 pin 115V plug
DNFCDC2P	Daisy Chain	24"	2x45°, 24" apart	2 pin 115V plug
DNFCDC3P	Daisy Chain	24"	3x45°, 24" apart	2 pin 115V plug

Part No.	Size(mm)	Size (In.)	CFM	AC Voltage	Use Fan Guard	Use Filter Fan Grill
FAN80AC115	80	3.15	32	115	FAN80FG	XPFA80...[1]
FAN80AC230	80	3.15	32	230	FAN80FG	XPFA80...[1]
DNMF100AC115	120	4.70	100	115	DNFG	XPFA120...[1]
DNMF100AC230	120	4.70	100	230	DNFG	XPFA120...[1]
FAN150AC115	150	6.00	210	115	FAN150FG	n/a
FAN150AC230	150	6.00	210	230	FAN150FG	n/a
FAN10A115	255	10.00	550	115	FAN10FG	n/a
FAN10A220	255	10.00	550	230	FAN10FG	n/a

[1]"..." specify color - BK (black), CG (RAL 7032) or GY (ASA61 gray)

UL recognized, CSA listed, CE certified

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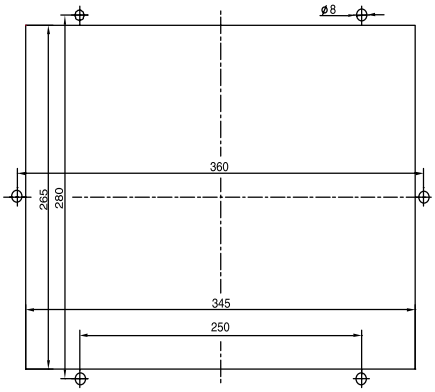
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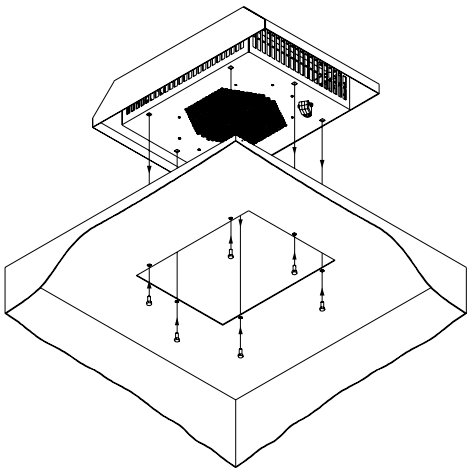
Top Mount Fan

- Mounts to top of enclosure.
- Ideal for use with IME Series (not compatible with 400mm deep IMET cabinets).
- 470 CFM free flow, 375 CFM using PFA6000 as inlet.
- 115V 50/60Hz
- Terminal block connection.
- 20.9" x 13.8" x 4.3"H
- UL/cUL Approved.
- Gasket seal- IP33 ingress protection level.
- Finished in RAL7032 beige.

Part No.	PTF8000

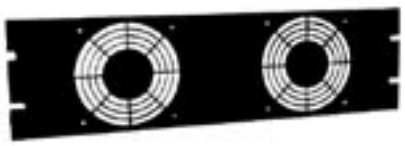


Cutout Template
(dimensions in mm)



Fan Panels

- Create your own rack mount fan or filter fan from these panels.
- Black powder coated steel.
- Also available in 24" and other widths or custom configurations.
- Fans sold separately



19" Grill Panel Shown

Punched 19" Fan Panels

Part No.	Panel Size	Cutouts for Stnd. Fans	# Holes	Optional Fan Part No. (115V)	Optional Fan Guard Grill	Optional Filter Grill (Black)	Optional Replacement Filter (pkg. 5)
PPFP190802BK1	3U	80mm/3.15"	2	FAN80AC115	FAN80FG	XPFA80BK	PFF1000
PPFP190803BK1	3U	80mm/3.15"	3	FAN80AC115	FAN80FG	XPFA80BK	PFF1000
PPFP191202BK1	4U	120mm/4.70"	2	DNMF100AC115	DNFG	XPFA120BK	PFF2000

Punched 19" Grill Panels (with integral front finger guard)

PPGP191202BK1	3U	120mm/4.70"	2	DNMF100AC115	DNFG	-	-

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Fan Tray

300, 600 and 900 CFM



Application

- Rack mount fan trays provide a compact, economical solution for cooling in electronic cabinets.
- Fan trays can be positioned at the bottom of an enclosure to force air through the cabinet, at the top to exhaust air out of the cabinet or below specific pieces of equipment for spot cooling.

Standards

- UR/CUR listed

Features

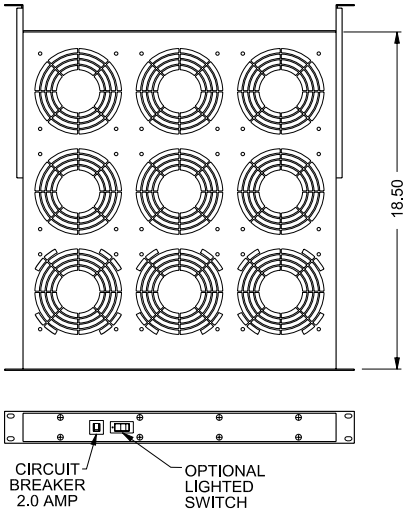
- 300, 600 and 900 CFM sizes.
- 115VAC, 50/60Hz.
- 19" panel width mounting.
- Low profile 1.75" (1U) height.
- 600 and 900 CFM units include removable rear support brackets.
- Circuit breaker protected.
- 6 foot 14/3 SJTW cord with molded 3 prong plug.
- Thermally protected, ball bearing fans.
- Integral finger guards above and below fans.
- Shipped fully assembled.
- Available with or without ON/OFF switch.

Finish

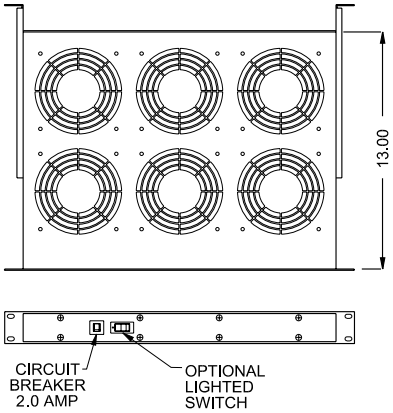
- Stocked in textured, black body finish.
- Textured black face panel.

Options

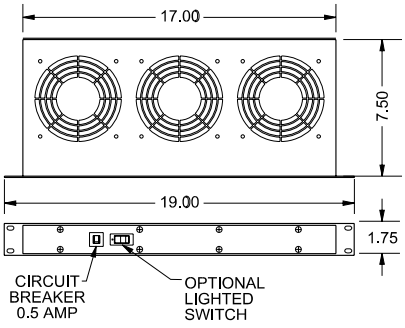
- Contact Hammond for information on:
  - 24" panel width mounting.
  - 230 V version (without plug).
  - 15 foot cord
  - Optional colors



FT900HA1BK



FT600HA1BK



FT300HA1BK

Note: All cad drawings are shown with optional lighted switch. All units are also available without switch - see chart below.

Without Switch Part No.	With Lighted Switch Part No.	CFM	Running Amps	Watts	Panel Width	Case Width	Case Depth	Rear Bracket Depth Min.	Rear Bracket Depth Max.
FT300TA1BK	**FT300HA1BK**	300	0.5	40	19	17.00	7.50	n/a	n/a
FT600TA1BK	**FT600HA1BK**	600	1.0	80	19	17.00	13.00	2.40	19.20
FT900TA1BK	**FT900HA1BK**	900	1.5	120	19	17.00	18.50	7.90	24.70

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General Information

Heating products protect electronic and electrical components from temperature problems that are below acceptable tolerances. There are obvious circumstances when extremely low ambient (outside cabinet) temperatures would require a heater, but there are also less apparent times that a heater should be considered. For example, a system may run all day having its components generate heat, but once the system shuts down for the night, the quick drop in temperature could cause condensation and possibly corrosion - a heater could maintain a safe, constant temperature.

Combined Cooling and Heating

Some components today are sensitive enough that both cooling and heating could be required in the same enclosure. When designing your system, be aware of the need to maintain a relatively constant temperature inside the enclosure as ambient temperatures swing from cool to very hot. Hammond thermostats (one for heaters and one for cooling products) can control both systems automatically.

Heater Sizing Information

P_H = Total power required for this application (W)
P_V = Existing power from components (W)
DT = Temperature differential (Kelvin) ambient to cabinet interior (1°Kelvin = 1°C = 1.8°F)
A = Free-standing cabinet surface area (ft^2)
k = Heat transmission coefficient (W/ft^2 K) convection in quiet air:

Painted steel	approx.	0.51 W/ft^2 K
Aluminum	approx.	1.115 W/ft^2 K
Plastic	approx.	0.325 W/ft^2
Stainless Steel	approx.	.344 W/ft^2 K

Formula

$P_H = (DT \times k \times A) - P_V$

If enclosure located **outside**, use **x2 (**DT x k x A)

Sample with solution:

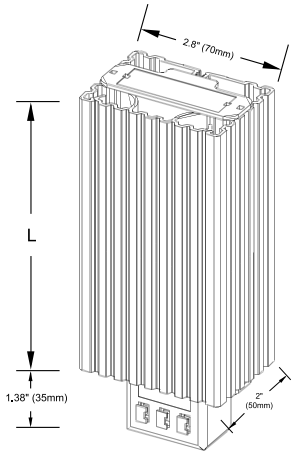
DT = 5K
k = Painted steel = 0.51 W/ft^2
A = 50 ft^2
P_V = 50 W
P_H = (5 x 0.51 x 50) - 50
= 127.5 - 50
= 77.5 W

Recommend: SHP045039, 80W Heater

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Heating Products





Heaters

- Designed to provide enclosed electronic, pneumatic, hydraulic and mechanical equipment with protection from low temperatures, condensation and corrosion.
- The PTC (Positive Temperature Coefficient) heater unit maintains a stable temperature environment within enclosures, allowing critical components to perform with consistent reliability for longer periods.
- Heating power adjusts to ambient temperature
- Push connectors for quick and easy wiring

Part No.	Watts[1]	Max. Current[2]	L (in.)	Ship Wt lbs
SHG14000	15 W	1.5 A	2.56	1
SHG14001	30 W	3.0 A	2.56	1
SHG14003	45 W	3.5 A	2.56	1
SHG14005	60 W	2.5 A	5.51	1
SHG14006	75 W	4.0 A	5.51	1
SHG14007	100 W	4.5 A	5.51	2
SHG14008	150 W	8.0 A	8.46	2

[1] At 68°F (20°C) ambient temperature. [2] Inrush current

Operating Voltage:	AC/DC 110 - 250 V
Heating Element:	PTC resistor, self regulating
Heating Body:	Anodized extruded aluminum
Connection:	Push-type terminals for stranded and solid wire 3 x AWG 20 AWG 16 (0.5 - 1.5 mm²)
Mounting:	Easily installed by clip mounting on 35 mm DIN rails (included)
Protection Class:	I, test voltage 1600 V
Protection:	IP20
Approval:	UL Recognized Component, cUL Recognized Component, CE



Fan Heaters

- For use when larger heating capacities or internal forced air circulation is required.
- Designed to prevent condensation or maintain minimum temperature in enclosures.
- Thermostats are also available.

Part No.	Watts	Surface Temperature	Starting Current	Dimensions L x W x D	Ship Wt. lbs
SHGL04600	250 W	167°F	2.2 A	7.00 x 3.15 x 3.15	2
SHGL04601	400 W	167°F	3.5 A	9.76 x 3.15 x 3.15	3

Operating Voltage:	AC 110-120 V, 50/60 Hz
Circulation Power:	20 CFM Free Blowing
Axial Fan:	Ball bearing
Durability:	30,000 hrs. at 68°F ambient temperature
Heating Element:	Resistance heating element with temperature limiter
Heating Body:	Extruded aluminum, black anodized
Connection:	3 pole terminal for 12 AWG
Mounting:	Easily installed by clip mounting on 35 mm DIN rails (included)
Protection Class:	1 (tested for grounding at 1250 V)
Protection:	IP20
Approval:	UL Recognized Component, cUL Recognized Component, CE

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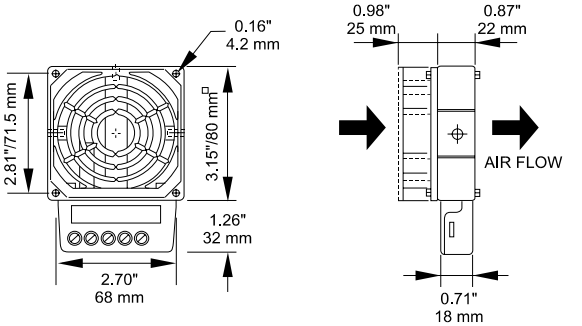


Control Panel Heater

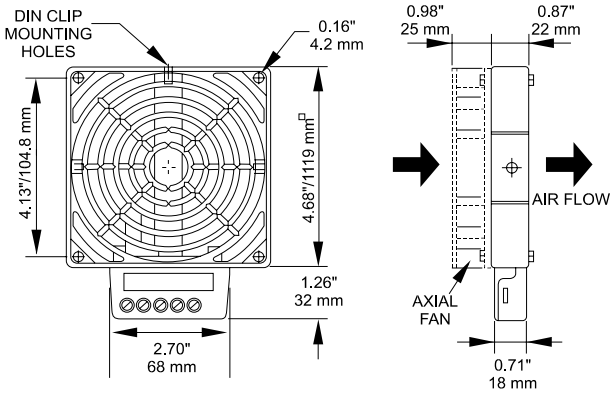
- When larger heating capacities or internal forced air circulation is required and space is limited.
- Compact design to prevent condensation or maintain minimum temperature in enclosures.
- Fan is included.
- Thermostats available

Part No.	Watts	Operating Current (Amps)	Volts	Temperature Maximum with Fan	Ship Wt. lbs
SHV031029	100 W	0.89	AC 120	250°F/120°C	1
SHV031039	150 W	1.30	AC 120	320°F/160°C	1
SHV031139	200 W	1.79	AC 120	250°F/120°C	1
SHV031149	300 W	2.62	AC 120	320°F/160°C	1
SHV031159	400 W	3.45	AC 120	360°F/180°C	1

Operating Voltage:	AC 110 -120 V 50/60 Hz
Air Flow:	20 CFM (100W, 150W heaters), 63 CFM (200W, 300W, 400W heaters)
Axial Fan:	Ball bearing
Durability:	30,000 hrs. at 68°F ambient temperature
Heating Element:	Cartridge heater
Heating Body:	Die cast aluminum
Connection:	5 pole terminal for 14 AWG (maximum)
G/L1/N1:	Heater
L2/N2:	Fan
Mounting:	Easily installed by clip mounting on 35 mm DIN rails (included)
Protection class:	1 (tested for grounding at 1250 V)
Protection:	IP44
Approval:	UL Recognized Component, cUL Recognized Component,CE



100 W, 150 W Heaters



200 W, 300 W, 400 W Heaters

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Heating Products



High Wattage Fan Heater

- For large heating capacity requirements.
- Maintains minimum operating temperatures in enclosures.
- Helps prevent failures to components caused by condensation and corrosion.
- Built-in thermostat and control light.
- Heating power adjusts to ambient temperature.
- Heat exits top of fan heater. (add 2" clearance for heat sensitive parts)

Part No.	Watts	Inrush Current (Amps)	Volts	Temperature Maximum with Fan	Ship Wt. lbs
SCR027009	550 W	11 A	AC 120	250°F/120°C	2
SCR027009230	550 W	13 A	AC 230	250°F/120°C	2
SCR027019	650 W	12 A	AC 120	320°F/160°C	2.4

Air Flow:	20 CFM (550W), 26 CFM (650W)
Thermostat Range:	32 - 140 degrees Fahrenheit
Heating Element:	PTC - Semiconductor/resistor
Housing:	Plastic, rated UL94-VO
Connection:	3 pole terminal, AWG 14 max (2.5 mm^2)
Mounting:	Clip for 35mm DIN rail
Protection Class:	II (Double Insulated)
Protection Type:	IP20
Approval:	UL Recognized Component, cUL Recognized Component, CE



Fan Heater with Thermostat

- Designed to prevent condensation or maintain minimum temperature in enclosures.
- Built in Thermostat. (-18 C to +38 C) (0 F to +100 F)
- Fan Auto/On switch with pilot light for Heat On indication
- 20 CFM airflow
- High temperature safety protection
- Aluminum alloy outer casing
- Connection via terminal block.

Part No.	Watts	Voltage	Overall Dimensions Height x Width x Depth	Ship Wt. lbs
FLHTF125A115	125 W	120V	5.5" x 4.0" x 5.3"	2.2
FLHTF125A230	125 W	240V	5.5" x 4.0" x 5.3"	2.2
FLHTF200A115	200 W	120V	5.5" x 4.0" x 5.3"	2.2
FLHTF200A230	200 W	240V	5.5" x 4.0" x 5.3"	2.2
FLHTF400A115	400 W	120V	7.5" x 4.0" x 5.3"	3.0
FLHTF400A230	400 W	240V	7.5" x 4.0" x 5.3"	3.0
FLHTF800A115	800 W	120V	7.5" x 4.0" x 5.3"	3.0
FLHTF800A230	800 W	240V	7.5" x 4.0" x 5.3"	3.0

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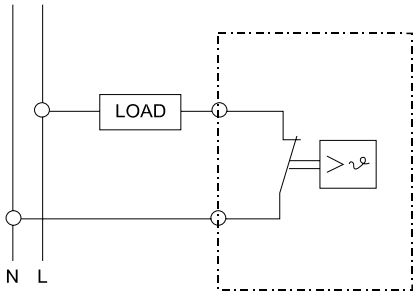
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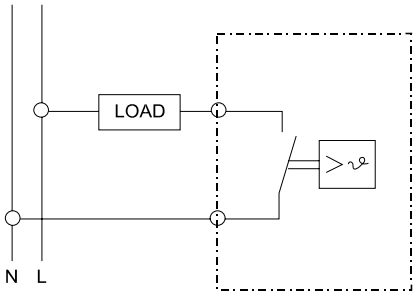
Thermostat

- Designed to provide air temperature control and monitoring in cabinets.
- Thermostat NC (Normally Closed) for the control of heaters and heater fans.
- Thermostat NO (Normally Open) for the control of cooling units, or for switching signal transmitters in case of overheating.
- Available in Fahrenheit or Celsius.

Sensor Element:	Thermostatic bi-metal
Switching difference (hysteresis):	±4°F (±3°K)
Adjustment Range:	30-140°F
Connection:	2 pole terminal for AWG 14 (2.5mm²)
Mounting:	Easily installed by clip mounting on 35 mm or 38 mm DIN rails (included)
Housing:	Flame retardant plastic UL94VO
Color:	Gray (SB)
Protection:	IP20
Approval:	UL Recognized Component , cUL Recognized Component, CE, CSA Listed



NC - Normally Closed (Red)
Used in conjunction with heaters. Contact opens when rising temperatures reach the set point temperature shutting heater off.



NO - Normally Open (Blue)
Used in conjunction with fans. Contact closes when rising temperatures reach the set point temperature turning fan on.

Part No.	Scale	Contact Type	Dimensions Height x Width x Depth	Switching Capacity	Ship Wt. lbs
SKT011409NC	°F	Normally Closed	2.4 x 1.6 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1
SKT011409NC-C	°C	Normally Closed	2.4 x 1.3 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1
SKT011419NO	°F	Normally Open	2.4 x 1.6 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1
SKT011419NO-C	°C	Normally Open	2.4 x 1.3 x 1.4	15 A (1) AC 120 V, 10 A (1) AC 250 V	1

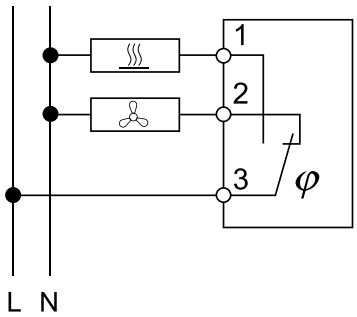
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Accessory Products





Mechanical Humidistat

- Mechanical Humidistat regulates the control of heaters or fans whenever the preset level of relative humidity.

Part No.	Dimensions Height x Width x Depth	Switching Capacity	
SKH600NCC	3.5 x 1.5 x 1.8	NOC FAN	AC 120 V - 2A
		NOC FAN	AC 240 V - 2A
		NCC Heater	AC 120 V - 5A
		NCC Heater	AC 240 V - 5A
			DC 30 Watts

Control Range:	40 to 90% r.H.
Differential Gap:	Approximately 5%
Switch Point Accuracy:	+/- 4% based on 50% r.H.
Working Temperature Range:	30°F to 140°F (0°C to 60°C)
Storage Temperature:	-5°F to 180°F (-20°C to 80°C)
Type of Contact:	Change-over switch
Sensor:	Polyamide band
Type of Connection:	2-pole clamp, For AWG14 (2.5mm²)
Color:	RAL 7035 - Grey
Protection Category:	IP20
Mounting:	Easily installed by clip mounting on 35mm DIN rail (7 included)
Approval:	CE

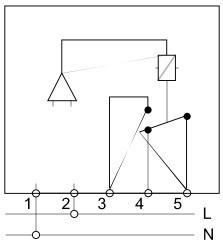


Electronic Humidity and Temperature Control

- Designed to provide both air temperature and humidity control as well as monitoring in electrical and electronic enclosures.
- Independently senses the relative humidity and temperature. Resistive and inductive loads (heaters or filter fans) can be switched.
- Highly effective in ATMs, parking control gates, ticket dispensers and traffic control systems where equipment is exposed to wide ranging outdoor elements.

Part No.	Dimensions Height x Width x Depth	Switching Capacity
SKTH012009230	3.03 x 2.36 x 1.69	NC: AC 240 V - 6A resistive, 1A inductive
		NO: AC 240 V - 8A resistive, 1.6A inductive
SKTH012009	3.03 x 2.36 x 1.69	NC: AC 120 V - 6A resistive, 1A inductive
		NO: AC 120 V - 8A resistive, 1.6A inductive
		DC 24 V - 4A resistive

Temperature Range:	32°F to 140°F (0°C to 60°C)
Switching difference (hysteresis):	Approximately 3.6°F (2°K)
Humidity range:	50% to 90% relative humidity
Response time:	Approximately 160 seconds
Function Indication:	LED
Life expectancy:	100,000 cycles
Mounting :	Easily installed by clip mounting on 35mm DIN rail
Housing :	Flame retardant plastic UL94VO
Color:	Gray
Protection:	IP20
Approval:	UL Recognized Component, cUL Recognized Component, CE



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Breather Kit (Pressure Compensation Plug)

- Packaged individually.
- Provides for controlled pressure compensation due to temperature variations (i.e. night/day operation).
- Recommend two plugs per cabinet in opposite locations.
- Minimum cutout diameter 1.46"

Part No.	Dimensions (Diameter x Depth)	Ship Wt. lbs
SDA412	2.6" x 1.2"	1

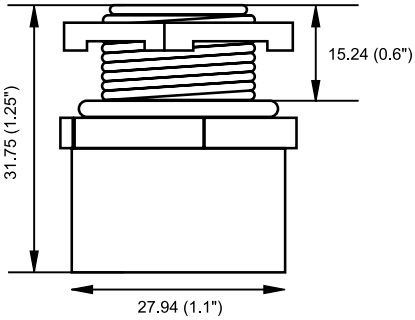
Mounting:	PG 29 (1.14") thread with union nut, minimum cutout diameter
Material:	Polycarbonate UL94VO
Protection:	IP45
Color:	RAL 7032 beige



Breather Kit (Pressure Compensation Plug)

- Packaged individually.
- Provides for controlled pressure compensation due to temperature variations (i.e. night/day operation).
- Recommend two plugs per cabinet in opposite locations.
- Pipe Thread 1/2"NPT (actual dia. 0.84")

Part No.	BDN4XN1



CSA/A Ex Approvals:	Class I, Zone 1, Ex e II Class I Division 2 Groups ABCD Class II EFG, Class III
Ingress Protection:	IP66, CSA Enclosure Type NEMA 4X
Impact Resistance:	20Nm (7Nm GF Nylon)
Materials:	Durethan BKV 30 N1 30% Glass Filled Nylon O Ring - Nitrile Fixing nut - Brass
Operating Temp:	-50C to +85C

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General Accessories
Hardware

Heavy Duty Door Clamping Hardware



- New note style replacement hardware for use on 1418N4, 1418N4SS, 1447SN4, and 1447SN4SS Hammond enclosures.
- Formed heavy gauge stainless steel.
- Set of two.
- Note: Old style (no notch) available, Part No. 1481C18

Part No.	1481HC18

Junction Box Padlock Kit



- Field installed kit requires drilling of only 4 holes
- Compatible with 1414 Series junction boxes.
- Only available in 316 Stainless Steel.
- Sold Individually.
- Installation Instructions provided

Part No.	14PLKS16

Quick Release Clamp



- Provides fast access to conventional screw clamp type enclosures.
- Installs on clamp bracket in place of screw on 1418, 1418N4, 1447N4, and 1422N4 Series enclosures.
- Entire assembly is stainless steel.
- Set of two.

Part No.	1418QR

Door Clamping Hardware



- Replacement hardware for use on 1414, 1485, 1486, and 1487 Hammond enclosures.
- Formed heavy gauge stainless steel.
- Set of two

Part No.	1481C14

Quick Release Junction Box Clamp



- Installs easily on standard clamp bracket allowing for quick access.
- Compatible with 1414 Series junction boxes. Also 1485 Series wireway and 1486 trough.
- Available in plated or stainless steel.
- Sold Individually.

Part No.	Material
14QR	Plated Steel
14QRSS	304 SS
14QRS16	316 SS

Lifting or Pull Handles



- Chrome plated steel accessory handles.
- Two 10-32 screws on 1427L, M, and N; 6-32 screws on 1427P and Q.

Part No.	Mtg. Centers	Handle Diameter
1427L	7.00	0.375
1427M	5.25	0.375
1427N	3.50	0.375
1427P	2.81	0.250
1427Q	2.25	0.250

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General Accessories
Hardware

Latch Kits for Single Door Type 12 Enclosures

- Designed for field installation on most 1418 Series single door enclosures (does not fit 1418 J Series).
- Available with key locking, padlocking, and non-locking handles.
- Single point kits include a handle and latch cam.
- Three point kits include a handle, latch cam, latch rods and adjustable rod guides.
- Latch rod ends have rollers for easier door closing.
- All parts are plated or painted for corrosion resistance.


AHK1


AHKL1

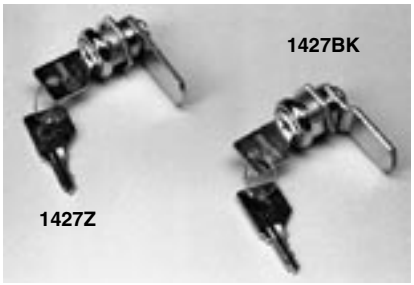
Non-Locking Handle	Handle Rotation	Locking Handle	Handle Rotation	"Tee" Locking Handle	Description
AHK1	clockwise	**AHKL1**	counter clockwise	**THK1**	1 point latch
AHK2	clockwise	**AHKL2**	counter clockwise	**THK2**	3 point latch 48" and under
AHK3	clockwise	**AHKL3**	counter clockwise	**THK3**	3 point latch 60" and over

Padlocking Handle	Locking & Padlocking Handle	Description
PHK1	**PHKL1**	1 point latch
PHK2	**PHKL2**	3 point latch 48" and under
PHK3	**PHKL3**	3 point latch 60" and over


PHK1


PHKL1

Lock Kit for NEMA 1 Enclosures





- Installs in place of the existing slotted latch, or in cutout hole provided.
- Reversible cam position for other applications.
- Maintains NEMA1 rating.

Part No.	Fits Enclosure Series
1427LKN1	1420, N1A
1427BK	1439 Flush Mount
1427Z	1439 Surface Mount Kit
N1JLK	N1J, CHKO



Lock Kit for 1418 Type 4 and 12 Enclosures

- Designed for installation on most 1418 Series single door enclosures (does not fit 1418 J Series).
- Requires a drilled or punched hole to receive cylinder lock.
- Internal "0" ring provides dust and water tight construction.
- Maintains NEMA rating.

Part No.	1427LKN4

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General Accessories
Hardware



Part No.	Description
1421	pkg. of 4 screws & 4 washers

Nickel plated 10-32 x 0.63" combo slot, Phillips oval countersunk head screws with steel cup washers.



Part No.	Description
1421B	pkg. of 4 screws & 4 washers

Nickel plated 10-32 x 0.5" thumb screws with nylon washers for captivating panels up to 0.09" thick. Head is 0.62" diameter x 0.37" high.



Part No.	Description
1421A	pkg. of 4 screws & 4 washers

Nickel plated 10-32 x 0.63" combo slot, Phillips oval countersunk head screws with plastic cup washers.



Part No.	Description
1421B2	pkg. of 2 screws, nuts & washers

Polished stainless steel $^{1}/_{4}$-20 x 0.87" thumb screws with nylon washers and steel nuts for captivating panels up to 0.4" thick. Head is 0.68" diameter x 0.25" high.



Part No.	Description
1421A25B	pkg. of 25
1421A100B	pkg. of 100

Nickel plated 10-32 x 0.63" combo slot, Phillips oval countersunk head screws.



Part No.	Description
1421D	pkg. of 25 screws

Zinc plated 10-32 x 0.5" slotted pan head screws.



Part No.	Description
1421A25W	pkg. of 25
1421A100W	pkg. of 100

Black plastic cup washers for countersunk 10-32 screws.



Part No.	Description
1421E25W	pkg. of 25
1421E100W	pkg. of 100

Nickel plated metal cup washers for countersunk 10-32 screws.

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General Accessories
Hardware



Part No.	Description
1421N25	pkg. of 25
1421N100	pkg. of 100

10-32 clip nuts for all panel rails and most other mounting positions. Has the holding strength of a standard 10-32 nut.



Part No.	Description
1421NP25	pkg. of 25
1421NP100	pkg. of 100

Zinc plated 10-32 clip nuts. 10-32 clip nuts for all panel rails and most other mounting positions. Has the holding strength of a standard 10-32 nut.



Part No.	Description
1421F25	pkg. of 25

Stainless steel 10-32 x 1.25" Phillips oval countersunk head (the extra length is necessary for **raised** panels).



Part No.	Description
1421K25	pkg. of 25 screws & nuts
1421K100	pkg. of 100 screws & nuts

Zinc plated $^{1}/_{4}$-20 x 0.5" slotted round head screws with captive star washer nuts. Supplied with all panel rails and racks.



Part No.	Description
1463S	pkg. of 3

$^{3}/_{8}$-16 spring loaded nuts and $^{3}/_{8}$-16 x 0.75" bolts for "C" channels.



Part No.	Description
1421S	pkg. of 4

$^{1}/_{4}$-20 spring loaded nuts and $^{1}/_{4}$-20 x 0.62" round head bolts for "C" channels.



UL/CSA Hardware Kits

- When used as instructed, kits maintain the UL/CSA Type rating of Hammond enclosures which unapproved hardware will not.
- Screws require hex driver making them virtually tamper proof.
- Kit includes 50 stainless steel screws, sealing washers and nuts with one hex driver per kit.
- Offered in 8-32, 10-32 and ¼-20 at various lengths.

Part No.	Description
1421N4AA50	8-32 x ½" Kit
1421N4AB50	8-32 x 1" Kit
1421N4BA50	10-32 x ½" Kit
1421N4BB50	10-32 x 1" Kit
1421N4CA50	¼-20 x 5/8" Kit
1421N4CB50	¼-20 x 1" Kit

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Ground Lugs

- Dual L16 type aluminum lug
- 1 1/8" wide x 1 3/16" long
- Provides excellent grounding
- Accepts wire sizes from 1/0 to 14
- Usually used in conjunction with bus bar (above)
- Packaged individually
- Mounting hardware not included (requires drilling of bus bar)

Part No.	DNGL



Quarter Turn Inserts and Keys

- For Eclipse and Series 2000 Enclosures
- Field installable inserts replace standard quarter turn slot.
- Available in 7mm square and triangle formats, as well as slotted.
- Maintains NEMA, UL and CSA 12, 4 and 4X ratings.
- Square and triangle inserts provide extra security since standard screw drivers cannot open.
- Keys sold separately from inserts.

Part No.	Description
2SQI7	7mm square insert, black
2SQK7	7mm square key, fits 2SQI7
2TRI7	7mm triangle insert, black
2TRK7	7mm triangle key, fits 2TRI7
2SLI	Slotted insert, black



EQTRL



2QPL



2WKL



2SSQTR

Replacement Quarter Turn Assemblies

- Field installable.
- Interchangeable with standard quarter turn latches on Eclipse and Series 2000.
- Maintains NEMA, UL and CSA ratings as noted.

Part No.	Description	Material	NEMA Rating
EQTRL[1]	Locking Qtr Turn	Zinc Die/Chrome	n/a (internal use only)
2QTR	Slotted Qtr Turn	Zinc Die/Black	12, 4,
2SSQTR	Slotted Qtr Turn	Stainless steel	12, 4, 4X
2WKL	Wing knob lock	Zinc Die/Black	12, 4,
2QPL	Padlockable quarter turn latch	Zinc Die/Black	12, 4,
EJQTR	Slotted Qtr Turn	Zinc Die/Black	12, 4
EJSSQTR	Slotted Qtr Turn	Stainless Steel	12, 4, 4X

[1] For use with Swing Frame/Panel. All others for use with enclosures.



Eclipse Padlock Adaptor

- For use with EN4SD Series Enclosures.
- Padlock adaptor fits directly over the slotted quarter turn preventing access.
- 14 gauge 304 stainless steel.
- Stainless steel mounting hardware provided
- Once installed, the bolts cannot be removed without the door open.
- Easy installed in the field.
- Padlock not included.
- Maintains UL/CSA Type 4 rating.

Part No.	EPA

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Eclipse Junior Padlock Adaptor

- Padlock adapter fits directly over the slotted quarter turn preventing access.
- 2mm thick 14 gauge stainless steel.
- Stainless steel mounting hardware provided.
- Once installed, the bolts cannot be removed without the door open.
- Easy installed in the field.
- Padlock not included.
- Maintains UL/CSA Type 4 rating.

Part No.	EJPA



Eclipse Junior Wing Knob

- For use with EJ Series only.
- Installs in place of the standard quarter turn lock.
- Internal "O" ring provides dust and water tight construction.
- Zinc Diecast/Black.
- Maintains UL/CSA Type 4 rating.

Part No.	EJWKL



Oil Tight Hole Plugs

- Designed to seal unused push-button holes, conduit openings and knockout holes against dust, oil and water.
- Standard Pushbutton size is 30.5mm

Steel Hole Plugs

- Available in 12 sizes.
- Finished in gray.
- Oil resistant gasket.
- Secured with an 8-32 x 3/4" threaded stud and plated wing nut.

Stainless Steel Hole Plugs

- Available in 8 sizes.
- Finished in brushed natural stainless finish.
- Oil resistant gasket.
- Secured with an 8-32 x 3/4" threaded stud and plated wing nut.

Hole Plugs - Steel

Part No.	Description	Diameter
HP22	22mm Pushbutton	1.22
HP50	.5" Conduit	1.38
HP75	.75" Conduit	1.63
HPB	Std. Pushbutton	1.75
HP100	1" Conduit	1.88
HP125	1.25" Conduit	2.25
HP150	1.5" Conduit	2.50
HP200	2" Conduit	3.00
HP250	2.5" Conduit	3.50
HP300	3" Conduit	4.14
HP350	3.5" Conduit	4.66
HP400	4" Conduit	5.19

Hole Plugs - Stainless Steel

Part No.	Description	Diameter
HP22SS	22mm Pushbutton	1.22
HP50SS	.5" Conduit	1.38
HP75SS	.75" Conduit	1.63
HPBSS	Std. Pushbutton	1.75
HP100SS	1" Conduit	1.88
HP125SS	1.25" Conduit	2.25
HP150SS	1.5" Conduit	2.50
HP200SS	2" Conduit	3.00

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Panels for 1414, EJ and PJ Series Enclosures

- 14 gauge steel panels are finished in white.
- Aluminum panels are 0.080 type 5052 H-32 aluminum, unpainted.
- 14 gauge unpainted galvanized steel.
- Fiberglass panels in NEMA sizes.
- Steel panels and mounting hardware are included with 1414 Series enclosures.
- Galvanized panels and mounting hardware are included with the EJ Series enclosures.
- Mounting hardware is included with PJ Series enclosures, order panel separately.

Steel Part No.	Fiberglass Part No.	Aluminum Part No.	Galv. Steel Part No.	Panel		For Use with 1414 and EJ		For Use with PJ Series	
				Length	Width	Height	Width	Height	Width
14R0503			**14G0503**	4.88	2.88	6	4	—	—
14R0505	**14F0505**	**14A0505**	**14G0505**	4.88	4.88	6	6	7.04	7.04
14R0705	**14F0705**	**14A0705**	**14G0705**	6.75	4.88	8	6	8.94	7.06
14R0707			**14G0707**	6.75	6.88	8	8	—	—
14R0907	**14F0907**	**14A0907**	**14G0907**	8.75	6.88	10	8	11.08	9.20
14R0909			**14G0909**	8.75	8.88	10	10	—	—
14R1105			**14G1105**	10.75	4.88	12	6	—	—
14R1109	**14F1109**	**14A1109**	**14G1109**	10.75	8.88	12	10	13.08	11.20
14R1111			**14G1111**	10.75	10.88	12	12	—	—
14R1307			**14G1307**	12.75	6.88	14	8	—	—
14R1311	**14F1311**	**14A1311**	**14G1311**	12.75	10.88	14	12	15.08	13.20
14R1509			**14G1509**	14.75	8.88	16	10	—	—
14R1513	**14F1513**	**14A1513**	**14G1513**	14.75	12.88	16	14	17.22	15.34
P1868	**F1868**	**A1868**		16.88	14.88	—	—	19.34	17.34
P2068	**F2068**	**A2068**		18.44	14.44	—	—	20.94	16.94

Panels for 1418, 1422, 1447, and Wallmount Enclosures

- 12 gauge steel finished in white.
- Larger panels have two or four formed flanges.
- Some larger panels are 10 gauge.
- Panels and mounting hardware are included with 1418, 1447 and 1422 Series enclosures.

Part No.	Panel		For Use With Enclosure	
	Length	Width	Height	Width
18P0909[1]	9	9	12	12
18P0921[2]	9	21	12	24
18P1309[1]	13	9	16	12
18P1313[1]	13	13	16	16
18P1515[1]	15	15	18	18
18P1709[1]	17	9	20	12
18P1713[1]	17	13	20	16
18P1717[1]	17	17	20	20
18P2109[2]	21	9	24	12
18P2113[2]	21	13	24	16
18P2117[2]	21	17	24	20
18P2121[3]	21	21	24	24
18P2709[2]	27	9	30	12
18P2713[2]	27	13	30	16
18P2717[2]	27	17	30	20
18P2721[3]	27	21	30	24
18P2727[3]	27	27	30	30
18P3321[3]	33	21	36	24
18P3327[3]	33	27	36	30
18P3333[3]	33	33	36	36
18P3921[3]	39	21	42	24
18P3927[3]	39	27	42	30
18P3933[3]	39	33	42	36
18P4521[3]	45	21	48	24
18P4527[3]	45	27	48	30
18P4533[3]	45	33	48	36
18P5733[3]	57	33	60	36
18P6927[3]	69	27	72	30
18P6933[3]	69	33	72	36

[1] Flat Panel [2] 2 Formed Flanges [3] 4 Formed Flanges

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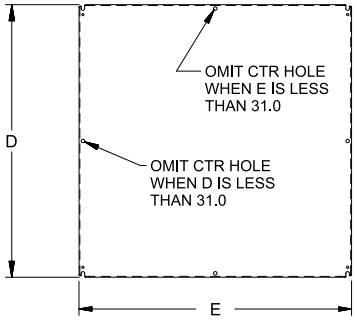
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General Accessories
Panels

Panels for Eclipse Series Enclosures

- Larger than standard NEMA panel used in same sized enclosure.
- 12gauge steel construction.
- Larger sizes have 2 or 4 formed flanges for added strength.
- Slotted corner design for easier mounting.
- Finished in white or unpainted galvanized.



Mild Steel Part No.	Galvanized Part No.	Size D	Size E	Gauge
EP1212[1]	**EPG1212**[1]	10.2	10.2	12
EP1224[1]	**EPG1224**[1]	10.2	22.2	12
EP1612[1]	**EPG1612**[1]	14.2	10.2	12
EP1616[1]	**EPG1616**[1]	14.2	14.2	12
EP1620[1]	**EPG1620**[1]	14.2	18.2	12
EP2012[1]	**EPG2012**[1]	18.2	10.2	12
EP2016[1]	**EPG2016**[1]	18.2	14.2	12
EP2020[2]	**EPG2020**[2]	18.2	18.2	12
EP2024[2]	**EPG2024**[2]	18.2	22.2	12
EP2412[1]	**EPG2412**[1]	22.2	10.2	12
EP2416[2]	**EPG2416**[2]	22.2	14.2	12
EP2420[2]	**EPG2420**[2]	22.2	18.2	12
EP2424[3]	**EPG2424**[3]	22.2	22.2	12
EP2430[3]	**EPG2430**[3]	22.2	28.2	12
EP2442[3]	**EPG2442**[3]	22.2	40.2	12
EP2448[3]	**EPG2448**[3]	22.2	46.2	12
EP3012[2]	**EPG3012**[2]	28.2	10.2	12
EP3016[3]	**EPG3016**[3]	28.2	14.2	12
EP3020[3]	**EPG3020**[3]	28.2	18.2	12
EP3024[3]	**EPG3024**[3]	28.2	22.2	12

Mild Steel Part No.	Galvanized Part No.	Size D	Size E	Gauge
EP3030[3]	**EPG3030**[3]	28.2	28.2	12
EP3036[3]	**EPG3036**[3]	28.2	34.2	12
EP3042[3]	**EPG3042**[3]	28.2	40.2	12
EP3048[3]	**EPG3048**[3]	28.2	46.2	12
EP3060[3]	**EPG3060**[3]	28.2	58.2	12
EP3624[3]	**EPG3624**[3]	34.2	22.2	12
EP3630[3]	**EPG3630**[3]	34.2	28.2	12
EP3636[3]	**EPG3636**[3]	34.2	34.2	12
EP3642[3]	**EPG3642**[3]	34.2	40.2	12
EP3648[3]	**EPG3648**[3]	34.2	46.2	12
EP3660[3]	**EPG3660**[3]	34.2	58.2	12
EP4224[3]	**EPG4224**[3]	40.2	22.2	12
EP4230[3]	**EPG4230**[3]	40.2	28.2	12
EP4236[3]	**EPG4236**[3]	40.2	34.2	12
EP4824[3]	**EPG4824**[3]	46.2	22.2	12
EP4830[3]	**EPG4830**[3]	46.2	28.2	12
EP4836[3]	**EPG4836**[3]	46.2	34.2	12
EP6036[3]	**EPG6036**[3]	58.2	34.2	12
EP7230[3]	**EPG7230**[3]	70.2	28.2	12
EP7236[3]	**EPG7236**[3]	70.2	34.2	12

[1] Flat Panel [2] 2 Formed Flanges [3] 4-Formed Flanges

Panels for 1420 Series Enclosures

- Panels and mounting hardware are included with 1420 Series enclosures.
- 12 gauge steel finished in white.

Part No.	Panel Length	Panel Width	For Use With Enclosure Height	For Use With Enclosure Width
20P1410[1]	14	10	16	12
20P1814[1]	18	14	20	16
20P1818[1]	18	18	20	20
20P2218	22	18	24	20
20P2222	22	22	24	24
20P2818	28	18	30	20
20P2822	28	22	30	24
20P3422	34	22	36	24
20P3428	34	28	36	30
20P4022	40	22	42	24
20P4028	40	28	42	30
20P4034	40	34	42	36
20P4634	46	34	48	36

[1] Flat panel

Panels for 1422 Series Floormount Enclosures

- 22P5038 is formed from 12 gauge steel, all others are 10 gauge steel.
- Panels and mounting hardware are included with 1422 Series enclosures.
- Finished in white.

Part No.	Panel Length	Panel Width	For Use With Enclosure Height	For Use With Enclosure Width
22P5038	50	38	54	42
22P5644	56	44	60	48
22P5656	56	56	60	60
22P6856	68	56	72	60
22P6868	68	68	72	72

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Panels for N1A Series Enclosures

- 12 and 14 gauge steel finished in white.
- Panels and mounting hardware are included with N1A Series enclosures.

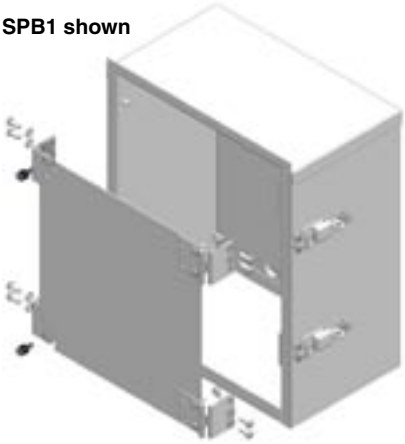
Part No.	Panel Length	Panel Width	For Use With Enclosure Height	For Use With Enclosure Width
AP1612[1]	13	10.5	16	12
AP1616[1]	13	14.5	16	16
AP1620[1]	13	18.5	16	20
AP2016[1]	17	14.5	20	16
AP2020[1]	17	18.5	20	20
AP2024[1]	17	22.5	20	24
AP2416[1]	21	14.5	24	16
AP2420[1]	21	18.5	24	20
AP2424[1]	21	22.5	24	24
AP3020[1]	26	18.5	30	20
AP3024[1]	26	22.5	30	24
AP3030[1]	26	28.5	30	30
AP3624[1]	32	22.5	36	24
AP3630[1]	32	28.5	36	30
AP4224[1]	38	22.5	42	24
AP4230	38	28.5	45	30
AP4236	38	34.5	42	36
AP4836	44	34.5	48	36

[1] Flat Panel

SPB2 shown



SPB1 shown



Swing Panel Kit

- Kits are used as accessory to standard Hammond panels (sold separately)
- Allows panel to be mounted in front part of enclosure
- Hinge permits access behind panel
- Sealing washers preserve approval rating of enclosure

Part #:	**SPB1**
For use with:	• 1414 Series where AxB is 8”x6” or larger • EJ Series where AxB is 8”x6” or larger • C3R-HCLO Series where AxB is 16x12 or smaller • Panel not included
Part #:	**SPB2**
For use with:	• 1418 Wallmount Series • C3R-HCLO Series where AxB is 16x16 or larger • C3R-HCR Series where AxB is 16x12 or larger • Panel not included

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General Accessories
Panel Accessories





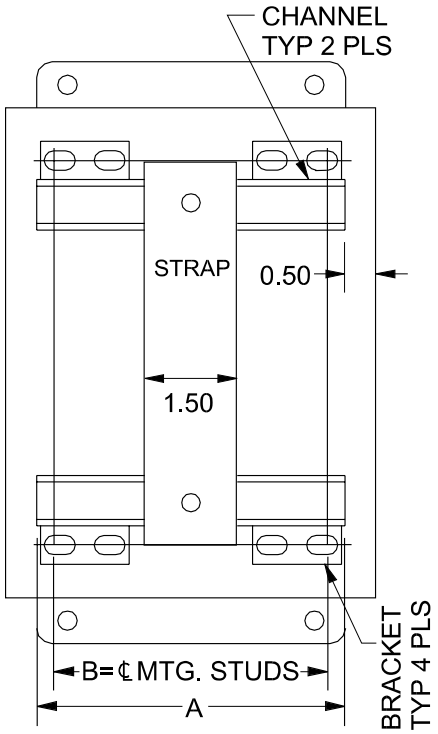
Terminal Kits for 1414/EJ/PJ Series Enclosures

- Used to provide convenient mounting for terminal blocks in 1414 Series enclosures and some sizes of "PJ" Series enclosures.
- Finished in white.

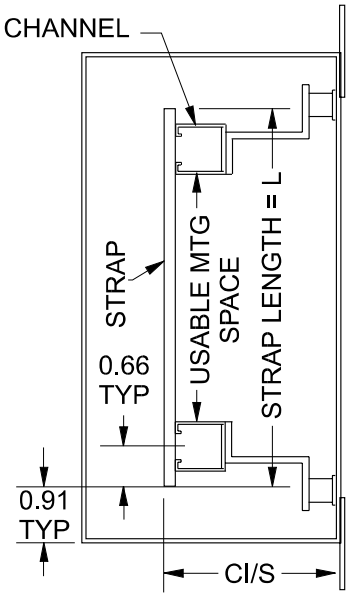
Bracket Assembly
- Each kit consists of two brackets.
- "C" channel construction provides easy alignment of terminal straps.

Terminal Strap
- 1.5" wide x 0.187" thick steel.
- Each strap includes spring locking hardware.
- Countersunk holes in straps provide extra terminal mounting space.

How to Order
- Each enclosure requires one bracket assembly kit and the required number of straps (Strap Part No. corresponds to enclosure dimension "A" and is mounted parallel to same, Bracket Part No. corresponds to enclosure dimension "B" and is mounted parallel to same).
- Example: For a PJ864L enclosure, order one 14B6 bracket assembly and a minimum of one 14B8 terminal strap kits. Additional terminal strap kits will provide additional mounting space.



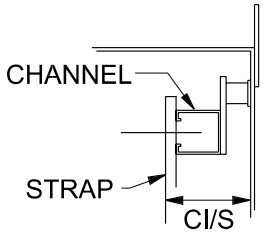
Front View



Side View

Single Strap Part No.	L= Length	Usable Mounting Space	Bracket (Pair) Part No.	Width of Box	A	B	C	Fits PJ Enclosure
14S8	6.19	4.30	14B6	6	5	4.25	1.55	PJ864...[1]
14S10	8.19	6.30	14B8	8	7	6.25	1.55	PJ1086...[1]
14S12	10.19	8.30	14B10	10	9	8.25	2.79	PJ12106...[1]
14S14	12.19	10.30	14B12	12	11	10.25	2.79	PJ14126...[1]
14S16	14.19	12.30	14B14	14	13	12.25	2.79	PJ16148...[1]

[1] Compatible with all latch types



Detail A

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Terminal Kit for 1418 Enclosures

- Used to provide convenient mounting for terminal blocks, pneumatic controls or small relays in 1418 wallmount enclosures.
- Brackets may be installed horizontally or vertically in an enclosure if the size corresponds to enclosure length or width.
- Finished in white.

Bracket Assembly

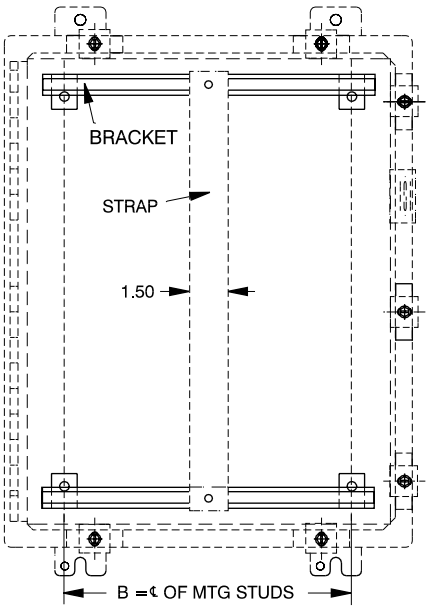
- Each kit consists of two or three brackets per assembly.
- Brackets combined with collar stud length provide 3" minimum clearance from the rear of the enclosure.
- "C" channel construction provides easy alignment of terminal straps.

Terminal Strap

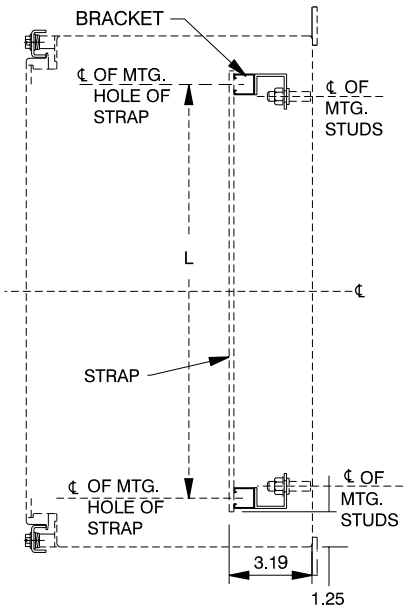
- 1.5" wide x 0.187" thick steel.
- Each strap includes spring locking hardware.
- Countersunk holes in straps provide extra terminal mounting space.

How To Order

- Each enclosure requires one bracket assembly kit and the required number of straps (order separately).
- Determine if strap will be mounted parallel to dimension "A" or "B".
- Choose the part number that corresponds to enclosure dimensions "A" or "B".
- When choosing a bracket assembly to be parallel to dimension "B" in an enclosure of 24", 30" or 36" width, determine if a two or three bracket assembly is required. When enclosures are 48" or greater on "A" dimension, 6 collar studs are used.
- Choose strap kit to correspond to the other enclosure dimensions.
- Order the number of kits equal to the number of straps required.



Front View



Side View

Bracket Assembly

Part No.	Number of Brackets	Length	B	Parallel Enclosure Dim
18B212	2	8.5	7.25	12
18B216	2	12.5	11.25	16
18B220	2	16.5	15.25	20
18B224	2	20.5	19.25	24
18B324	3	20.5	19.25	24
18B230	2	26.5	25.25	30
18B330	3	26.5	25.25	30
18B236	2	32.5	31.25	36
18B336	3	32.5	31.25	36

Strap

Part No.	Length	Usable Mounting Space (L)
18S12	9.5	7.6
18S16	13.5	11.6
18S20	17.5	15.6
18S24	21.5	19.6
18S30	27.5	25.6
18S36	33.5	31.6
18S42	39.5	37.6
18S48	45.5	43.6
18S60	57.5	55.6
18S72	69.5	67.6

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General Accessories
Power Bars



Front View



Rear View

Rail Mount, Rear Outlet Power Bar

- Designed for rear access with a lighted, rocker type ON-OFF switch for master power shut-off/on where noted in chart.
- Heavy 14 gauge wire cord - 14/3 SJTW for extreme temperature ranges and integral molded plug.
- Contains 6 or 8 receptacles, a 15 Amp breaker and is rated for 15 Amps @ 125V.
- Steel case, U-ground cord, plug, and receptacles.
- Power bar is 19" wide, 3" deep and requires 1 unit (1.75") of panel height to mount.
- UL component recognized.
- CSA approved.
- Available in satin black or ANSI 61 gray.

Part No.	Color	Cord Length	On/Off Switch	Type	No. of Outlets
1583H6A1BK	Black	6'	Yes	Straight	6
1583H6B1BK	Black	15'	Yes	Straight	6
1583H6C1BK	Black	6'	Yes	Twist-Lock	6
1583H6A1SBK[1]	Black	6'	Yes	Straight	6
1583H8A1BK	Black	6'	Yes	Straight	8
1583H8B1BK	Black	15'	Yes	Straight	8
1583H8C1BK	Black	6'	Yes	Twist-Lock	8
1583T6A1BK	Black	6'	No	Straight	6
1583T6B1BK	Black	15'	No	Straight	6
1583T6C1BK	Black	6'	No	Twist-Lock	6
1583T8A1BK	Black	6'	No	Straight	8
1583T8B1BK	Black	15'	No	Straight	8
1583T8C1BK	Black	6'	No	Twist-Lock	8

[1] Surge Protected



Part No.	Color	Cord Length	On/Off Switch	Type	No. of Outlets
1582H6A1BK	Black	6'	Yes	Straight	6
1582H6B1BK	Black	15'	Yes	Straight	6
1582H6C1BK	Black	6'	Yes	Twist-lock	6
1582H6A1SBK[1]	Black	6'	Yes	Straight	6
1582H8A1BK	Black	6'	Yes	Straight	8
1582H8B1BK	Black	15'	Yes	Straight	8
1582H8C1BK	Black	6'	Yes	Twist-lock	8
1582T6A1BK	Black	6'	No	Straight	6
1582T6B1BK	Black	15'	No	Straight	6
1582T6C1BK	Black	6'	No	Twist-lock	6
1582T8A1BK	Black	6'	No	Straight	8
1582T8B1BK	Black	15'	No	Straight	8
1582T8C1BK	Black	6'	No	Twist-lock	8

[1] Surge Protected

Rail Mount, Front Outlet Power Bar

- Designed for front access with a lighted, rocker type ON-OFF switch for master power shut-off/on where noted in chart.
- Heavy 14 gauge wire cord - 14/3 SJTW for extreme temperature ranges and integral molded plug.
- Contains 6 or 8 receptacles, a 15 Amp breaker and is rated for 15 Amps @ 125V.
- Steel case, U-ground cord, plug, and receptacles.
- Power bar is 19" wide, 3" deep and requires 1 unit (1.75") of panel height to mount.
- UL component recognized.
- CSA approved.
- Available in satin black or ANSI 61 gray.

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Heavy Duty Power Bar

- Built to meet the rugged requirements of commercial and industrial use.
- All metal housing - tough extruded aluminum case with a matte black steel cover and heavy duty duplex receptacles.
- Heavy 14 gauge wire cord - 14/3 SJTW for extreme temperature ranges and integral molded plug.
- UL/CSA approved.
- Plug types available are NEMA 5-15P straight blade or NEMA L5-15P twist-lock.
- Separate mounting feet provide for work station mounting if desired.
- Contains 15 amp, 125 volt re-settable circuit breakers to prevent accidental line overload.
- Available in 3 lengths with 4, 6, or 8 receptacles.
- Features a lighted, rocker type ON-OFF switch for master power shut-off/on where noted in chart.



Rack Mounting Kit

- Contains hardware for system and Amhal strut mounting.

Part No.	1584MK1

Part No.	No. of Outlets	Length (Inches)[1]	On/Off Switch	Cord Length	Cord Type
1584H4A1	4	10.0	Yes	6'	Straight
1584H4B1	4	10.0	Yes	15'	Straight
1584H4C1	4	10.0	Yes	6'	Twist-Lock
1584H4D1	4	10.0	Yes	15'	Twist-Lock
1584H5A1	5	13.0	Yes	6'	Straight
1584H5B1	5	13.0	Yes	15'	Straight
1584H5C1	5	13.0	Yes	6'	Twist-Lock
1584H5D1	5	13.0	Yes	15'	Twist-Lock
1584H6A1	6	13.0	Yes	6'	Straight
1584H6B1	6	13.0	Yes	15'	Straight
1584H6C1	6	13.0	Yes	6'	Twist-Lock
1584H6D1	6	13.0	Yes	15'	Twist-Lock
1584H7A1	7	13.0	Yes	6'	Straight
1584H7B1	7	13.0	Yes	15'	Straight
1584H7C1	7	13.0	Yes	6'	Twist-Lock
1584H7D1	7	13.0	Yes	15'	Twist-Lock
1584H8A1	8	16.5	Yes	6'	Straight
1584H8B1	8	16.5	Yes	15'	Straight
1584H8C1	8	16.6	Yes	6'	Twist-Lock
1584H8D1	8	16.6	Yes	15'	Twist-Lock
1584T4A1	4	10.0	No	6'	Straight
1584T4B1	4	10.0	No	15'	Straight
1584T4C1	4	10.0	No	6'	Twist-Lock
1584T4D1	4	10.0	No	15'	Twist-Lock
1584T5A1	5	13.0	No	6'	Straight
1584T5B1	5	13.0	No	15'	Straight
1584T5C1	5	13.0	No	6'	Twist-Lock
1584T5D1	5	13.0	No	15'	Twist-Lock
1584T6A1	6	13.0	No	6'	Straight
1584T6B1	6	13.0	No	15'	Straight
1584T6C1	6	13.0	No	6'	Twist-Lock
1584T6D1	6	13.0	No	15'	Twist-Lock
1584T7A1	7	16.5	No	6'	Straight
1584T7B1	7	16.5	No	15'	Straight
1584T7C1	7	16.5	No	6'	Twist-Lock
1584T7D1	7	16.5	No	15'	Twist-Lock
1584T8A1	8	16.5	No	6'	Straight
1584T8B1	8	16.5	No	15'	Straight
1584T8C1	8	16.5	No	6'	Twist-Lock
1584T8D1	8	16.5	No	15'	Twist-Lock

[1] This is the length of the actual power bar. In addition, there are 0.5 mounting feet on each end, adding an total of 1" to overall length.

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General Accessories

General Accessories



1585 Vertical Power Strip

- 1 5/8" X 1 3/8" aluminum profiles.
- Heavy 14 gauge wire cord - 14/3 SJTW for extreme temperature ranges and integral molded plug.
- UL/CSA approved.
- Plug types available are NEMA 5-15P straight blade or NEMA L5-15P twist-lock.
- Rated for 15 Amps @ 125V.
- Ready to mount, vertical power distribution for 19/24" cabinets.
- Mounting clips are included for easy mounting to Amhal struts in any location. Replacement clips are available.
- Complete with 6 or 15 foot cord.
- Solid aluminum extrusion.
- 8, 10 and 12 outlet units available.

Extra Mounting Clips

Part No.	1585CLIP

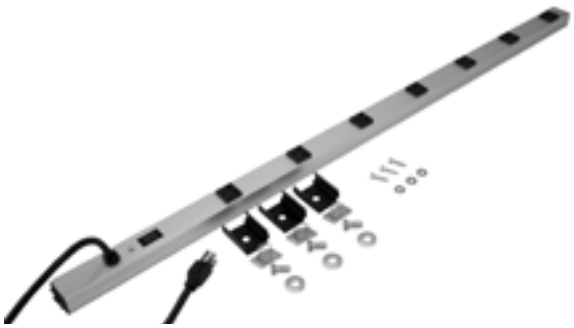
Part No.	No. of Outlets	Length (Inches)[1]	On/Off Switch	Cord Length	Cord Type
15851H6A1	6	18	Yes	6'	Straight
15851H6B1	6	18	Yes	15'	Straight
15851H6C1	6	18	Yes	6'	Twist-Lock
15852H6A1	6	24	Yes	6'	Straight
15852H6B1	6	24	Yes	15'	Straight
15852H6C1	6	24	Yes	6'	Twist-Lock
15853H6A1	6	36	Yes	6'	Straight
15853H6B1	6	36	Yes	15'	Straight
15853H6C1	6	36	Yes	6'	Twist-Lock
15854H7A1	7	42	Yes	6'	Straight
15854H7B1	7	42	Yes	15'	Straight
15854H7C1	7	42	Yes	6'	Twist-Lock
1585H8A1	8	48	Yes	6'	Straight
1585H8B1	8	48	Yes	15'	Straight
1585H8C1	8	48	Yes	6'	Twist-Lock
1586H10A1	10	60	Yes	6'	Straight
1586H10B1	10	60	Yes	15'	Straight
1586H10C1	10	60	Yes	6'	Twist-Lock
1587H10A1	10	70	Yes	6'	Straight
1587H10B1	10	70	Yes	15'	Straight
1587H10C1	10	70	Yes	6'	Twist-Lock
1588H12A1	12	77	Yes	6'	Straight
1588H12B1	12	77	Yes	15'	Straight
1588H12C1	12	77	Yes	6'	Twist-Lock
15851T6A1	6	18	No	6'	Straight
15851T6B1	6	18	No	15'	Straight
15851T6C1	6	18	No	6'	Twist-Lock
15852T6A1	6	24	No	6'	Straight
15852T6B1	6	24	No	15'	Straight
15852T6C1	6	24	No	6'	Twist-Lock
15853T6A1	6	36	No	6'	Straight
15853T6B1	6	36	No	15'	Straight
15853T6C1	6	36	No	6'	Twist-Lock
15854T7A1	7	42	No	6'	Straight
15854T7B1	7	42	No	15'	Straight
15854T7C1	7	42	No	6'	Twist-Lock
1585T8A1	8	48	No	6'	Straight
1585T8B1	8	48	No	15'	Straight
1585T8C1	8	48	No	6'	Twist-Lock
1586T10A1	10	60	No	6'	Straight
1586T10B1	10	60	No	15'	Straight
1586T10C1	10	60	No	6'	Twist-Lock
1587T10A1	10	70	No	6'	Straight
1587T10B1	10	70	No	15'	Straight
1587T10C1	10	70	No	6'	Twist-Lock
1588T12A1	12	77	No	6'	Straight
1588T12B1	12	77	No	15'	Straight
1588T12C1	12	77	No	6'	Twist-Lock

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General Accessories
General Accessories



Part No.	No. of Outlets	Length (Inches)[1]	Switch	Cord Length	Cord Type
1589T36C1	6	36"	No	6'	Twist-Lock
1589T36F1	6	42"	No	6'	Straight
1589T42C1	7	42"	No	6'	Twist-Lock
1589T42F1	7	42"	No	6'	Straight
1589T48C1	8	48"	No	6'	Twist-Lock
1589T48F1	8	48"	No	6'	Straight
1589T60C1	10	60"	No	6'	Twist-Lock
1589T60F1	10	60"	No	6'	Straight
1589T70C1	10	70"	No	6'	Twist-Lock
1589T70F1	10	70"	No	6'	Straight
1589T77C1	12	77"	No	6'	Twist-Lock
1589T77F1	12	77"	No	6'	Straight

1589 Vertical Power Strip

- Construction same as 1585 series with:
  - 12 gauge wire
  - 20 amp power cord and circuit breaker
  - Plug types available are Nema L5-20P twist-lock or Nema 5-20P straight blade.

Extra Mounting Clips

Part No.	1585CLIP



Remote Receptacle

- 125V/15A max. receptacle
- mounts to 35mm DIN rail (not included)
- 3.6"H x 2.4"W x 1.9"D
- CE, UL/cUL component recognized

Part No.	SSD03504001



Gland Plates

- 14 gauge mild steel gland plate allows for easy cable entry into enclosure
- Maintains NEMA 12, 4 rating
- Hardware and cutout template included
- Available in ANSI 61 Gray and RAL 7032 Beige



Part No.	Plate Size Finish	Fits Opening Height	Ship Wt. Width	Height	Width	lbs.
GP063	RAL 7032 Beige	6.31	2.75	5.06	1.5	3
GP134	RAL 7032 Beige	13.00	3.56	11.75	2.31	3
GP136	RAL 7032 Beige	13.38	5.88	12.13	4.63	4
GP216	RAL 7032 Beige	20.88	5.88	19.63	4.63	5
GP063GY	ANSI 61 Gray	6.31	2.75	5.06	1.5	3
GP134GY	ANSI 61 Gray	13.00	3.56	11.75	2.31	3
GP136GY	ANSI 61 Gray	13.38	5.88	12.13	4.63	4
GP216GY	ANSI 61 Gray	20.88	5.88	19.63	4.63	5

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General Accessories
Light Kits



Direct Mounting

Tubular Stand/Plinth

Threaded tubular stand/bracket



Bulb Remover/ Installer

Stack Lights

- Modular design for all indoor and outdoor applications.
- Provides warning signals and diplays machine status.
- High level of protection against electric shock with IP 54 rating.
- Separate components for easy ordering to suit every installation application.

Base and Tubes

Part No.	Description	L1	L2	Ship Wt lbs
PBR50BC	Base and End Module	-	-	5
PBR50S100	Tubular Stand/Plinth	88mm(3.46in)	-	5
PBR50S250	Tubular Stand/Plinth	238mm (9.37in)	-	5
PBR50T100	Threaded tubular stand/bracket	-	78mm (3.07in)	5
PBR50T250	Threaded tubular stand/bracket	-	228mm (8.98in)	5
PBR50T400	Threaded tubular stand/bracket	-	378mm (14.13in)	5

Modules

Part No.	Description	Ship Wt lbs
PBR50CLCL	Continuous beam module, transparent	1
PBR50CLYE	Continuous beam module, yellow	1
PBR50CLAM	Continuous beam module, amber	1
PBR50CLRE	Continuous beam module, red	1
PBR50CLGR	Continuous beam module, green	1
PBR50CLBL	Continuous beam module, blue	1
PBR50BLYE24V	Blinking module, yellow	1
PBR50BLRE24V	Blinking module, red	1
PBR50BLGR24V	Blinking module, green	1

Gaskets, Bulbs and Accessories

Part No.	Description	Ship Wt lbs
PBR50MG	Replacement gasket for light module + base module	1
PBR50TG	Replacement gasket for mounting tube with plinth	1
PBR50BG	Replacement gasket for direct mounting IP 65	1
PBR50LED24	LED light bulb 24V/BA15d	1
PBR50LED115	LED light bulb 115V/BA15d	1
PBR50L24	Light bulb 24V DC/BA15d 7W	1
PBR50L115	Light bulb 115V DC/BA15d 7W	1
PBR50LS	Bulb Remover / Installer	1
PBR50EXT	Stacklight Extension	2

How to Order:



Tubular Stand/Plinth

Sample Order	Part Number
1x base & end module	**PBR50BC**
1 x stand with plinth 250mm	**PBR50S250**
1x continuous beam module, red	**PBRCLRE**
1x continuous beam module yellow	**PBR50CLYE**
1x continuous beam module green	**PBR50CLGR**
3x light bulb 24V/7W	**PBR50L24**



Direct Mounting

Sample Order	Part Number
1x base & end module	**PBR50BC**
1 x continuous beam module, green	**PBR50CLGR**
1x continuous beam module, red	**PBR50CLRE**
1x continuous beam module clear	**PBR50CLCL**
1x continuous beam module amber	**PBR50CLAM**
1x continuous beam module blue	**PBR50CLBL**
5x light bulb 24V/7W	**PBR50L24**



Threaded Tubular Stand/Bracket

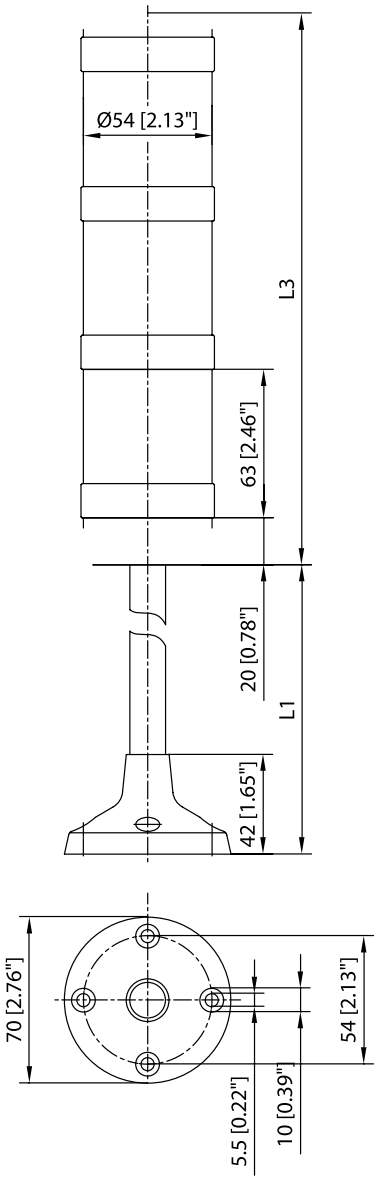
Sample Order	Part Number
1x base & end module	**PBR50BC**
1 x continuous beam module, red	**PBR50CLRE**
1x continuous beam module, clear	**PBR50CLCL**
1x continuous beam module, amber	**PBR50CLAM**
1x threaded tubular stand with bracket	**PBR50T250**
3x light bulb 24V/7W	**PBR50L24**

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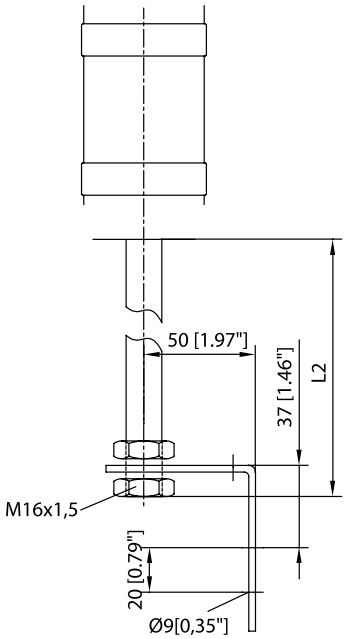
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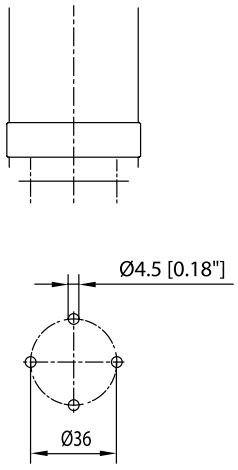
General Accessories
Light Kits



Tubular Stand/Plinth



Threaded Tubular Stand/Bracket



Direct Mounting

Part No.	L3
Single module	107mm (4.21in)
2 modules	170mm (6.69in)
3 modules	233mm (9.17in)
4 modules	296mm (11.65in)
5 modules	359mm (14.13in)

Other Data	
Protection Rating:	IP 54
Operating Temperature:	-25° C to + 45° C
Relative Humidity:	90%
Installation:	• Vertical or horizontal • Mounting stand, tube mounting or direct mounting
Accessories:	• Gasket for light module + basic module IP 65 • Gasket for tubular stand on plinth IP 65 • Gasket for direct mounting IP 65
Weight of Plinth:	• Wall bracket with hood • Stand mounting (w/o module): approx. 220g • Tube mounting (w/o module): approx. 200g • Direct mounting (w/o module): approx. 180g
Materials:	Modular: polycarbonate, Plinth: ABS, Tube: stainless steel

Modular Data:	Continuous Beam	Blinking Light
Module Colors:	yellow, red, green, amber, blue, transparent	yellow, red, green
Module Stages:	Max. 5	Max. 5
Angle of Beam:	360°	360°
Percentage Duty Cycle:	100%	100%
Rated Power, max:	7W	7W
Rated Power with 5 stages:	5W	5W
Lamp Socket:	BA 15 d	BA 15 d
Service life of light bulb/tube:	approx. 1500h	approx 1500h
AC Voltage Rating:	230 V, 50/60 Hz, -15% to +10%	230 V, 50/60 Hz, -15% to +10%
Current Capacity Rating:	0.035 A	0.08 A
DC Voltage Rating:	24 V, -15%to + 20%	24 V, -15%to + 20%
Current Capacity Rating:	0.3 A	0.25 A

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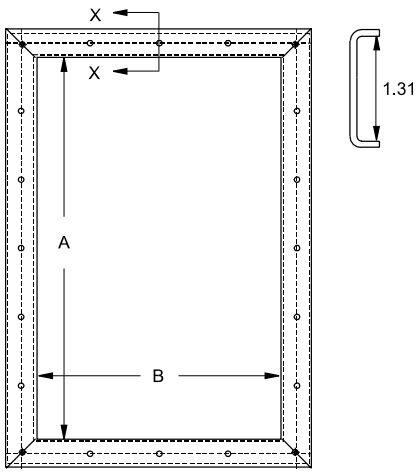
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General Accessories
Window Kits



Steel and Stainless Steel Window Kits

- Designed to maintain environmental protection level of Type 4, 4X (for stainless steel) as noted
- Window is 0.25" thick, UV resistant Polycarbonate.
- Frame is heavy gauge steel, or 304 stainless steel with integral weld studs and compression clips.
- Oil resistant neoprene gasket ensures a watertight seal.
- Finished in gray or natural brushed stainless steel.



Part No.	Material	Window Dimensions A	Window Dimensions B	Recommended Cut-Out Size	
1481WN40503 [1]	Steel	5	3.0	6.69	4.69
1481WN40905 [1]	Steel	9	5.5	10.69	7.19
1481WN41303 [1]	Steel	13	3.0	14.69	4.69
1481WN41308 [1]	Steel	13	8.0	14.69	9.69
1481WN41705 [1]	Steel	17	5.5	18.69	7.19
1481WN41711 [1]	Steel	17	11.0	18.69	12.69
1481WN42315 [1]	Steel	23	15.0	24.69	16.69
1481WN42919 [1]	Steel	29	19.0	30.69	20.69
1481WN43523 [1]	Steel	35	23.0	36.69	24.69
1481WN4SS0503 [2]	Stainless Steel	5	3.0	6.69	4.69
1481WN4SS0905 [2]	Stainless Steel	9	5.5	10.69	7.19
1481WN4SS1308 [2]	Stainless Steel	13	8.0	14.69	9.69
1481WN4SS1711 [2]	Stainless Steel	17	11.0	18.69	12.69
1481WN4SS2315 [2]	Stainless Steel	23	15.0	24.69	16.69
1481WN4SS2919 [2]	Stainless Steel	29	19.0	30.69	20.69

[1] UL/ CSA Type 12 and Type 4 [2] UL/ CSA Type 12, Type 4 and Type 4x

Hardware Included

Frameless Window Kits



- Designed for indoor use on Type 12 and 13 enclosures.
- Scratch resistant polycarbonate window is 0.25 inches thick.
- Double sided tape is on the window for easy installation.
- Mounting hardware and template are included.

Part No.	Window Dimensions A	Window Dimensions B	Maximum Cut-Out Size	
1481WFL52	5.50	3.00	4.50	2.00
1481WFL133	13.88	3.88	12.88	2.88
1481WFL96	9.62	7.19	8.62	6.19

Hardware Included

Technical references and DXF downloads available at www.hammfg.com

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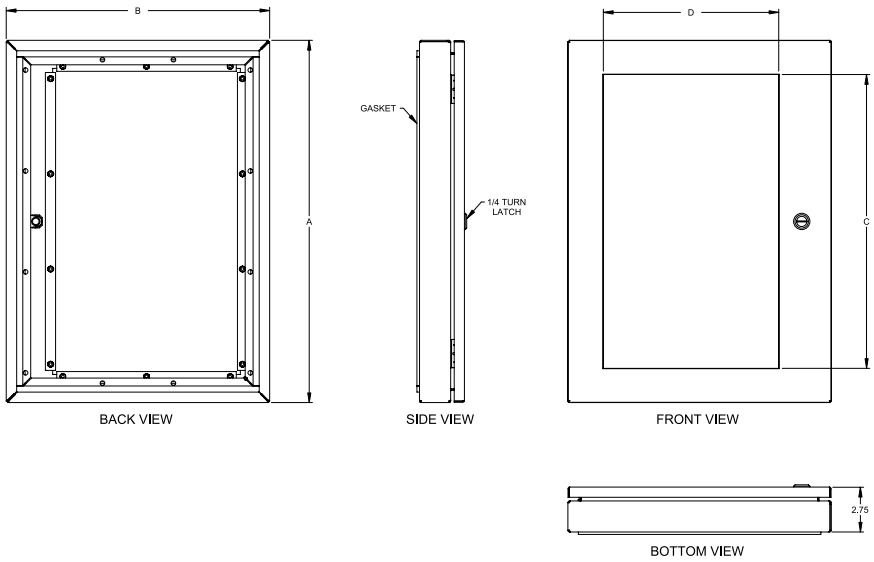
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NEMA 4 Deep Hinged Window Kits

- Extra deep kits are designed to provide protection and easy access to components and equipment installed inside an enclosure.
- Maintain environmental protection level of Type 4, 4X and 12 as noted
- Frame is 14 guage mild steel or 316L stainless steel.
- Quarter turn latch for easy access.
- 2.5 inches of extra usable depth
- Oil resistant neoprene gasket ensures a watertight seal.
- Can be either left or right hand hinged.
- Window is 0.25" thick, UV Resistant Polycarbonate.
- Conveniently sized to allow mounting on the door of any Hammond Wallmount Series enclosure, or in any other Hammond enclosure with a suitable mounting surface.
- Mounting hardware and template are included.

Hardware Included



Part No.	Material	Overall Dimensions A	B	Viewing Area C	D	E	Latch Qty	Recommended Cut-Out Size	
1481WDH1418 [1]	Steel	12.19	14.56	8.00	9.17	2.75	1	9.19	11.56
1481WDH1612 [1]	Steel	14.19	8.14	10.00	2.75	2.75	1	11.19	5.14
1481WDH2016 [1]	Steel	18.19	12.14	14.00	6.75	2.75	1	15.19	9.14
1481WDH2416 [1]	Steel	22.19	12.14	18.00	6.75	2.75	1	19.19	9.14
1481WDH2420 [1]	Steel	22.19	16.14	18.00	10.75	2.75	1	19.19	13.14
1481WDH2430 [1]	Steel	22.19	26.14	18.00	20.75	2.75	1	19.19	23.14
1481WDH3024 [1]	Steel	28.19	20.14	24.00	14.75	2.75	2	25.19	17.14
1481WDH3624 [1]	Steel	34.19	20.14	30.00	14.75	2.75	2	31.19	17.14
1481WSSDH1418 [2]	Stainless Steel	12.19	14.56	8.00	9.17	2.75	1	9.19	11.56
1481WSSDH1612 [2]	Stainless Steel	14.19	8.14	10.00	2.75	2.75	1	11.19	5.14
1481WSSDH2016 [2]	Stainless Steel	18.19	12.14	14.00	6.75	2.75	1	15.19	9.14
1481WSSDH2416 [2]	Stainless Steel	22.19	12.14	18.00	6.75	2.75	1	19.19	9.14
1481WSSDH2420 [2]	Stainless Steel	22.19	16.14	18.00	10.75	2.75	1	19.19	13.14
1481WSSDH2430 [2]	Stainless Steel	22.19	26.14	18.00	20.75	2.75	1	19.19	23.14
1481WSSDH3024 [2]	Stainless Steel	28.19	20.14	24.00	14.75	2.75	2	25.19	17.14
1481WSSDH3624 [2]	Stainless Steel	34.19	20.14	30.00	14.75	2.75	2	31.19	17.14

[1] UL/ CSA Type 12 and Type 4 [2] UL/ CSA Type 12, Type 4 and Type 4x

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General Accessories
General Accessories



Flange Disconnect Operator Adaptor Kits

- Used to adapt flange mounted operating mechanisms to all Hammond enclosures with universal cutouts.
- Kits include an adaptor plate and all of the required parts (with instructions) to interlock the master door with the operator mechanism.
- Blank plates are used to cover the flange cutouts in Hammond universal type disconnect enclosures.

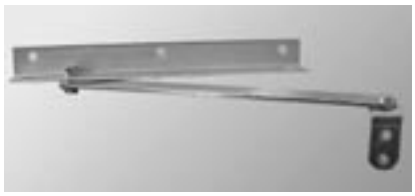
Part No.	Operator Make & Type	Manufacturer Part No.	
AKU	**ABB Controls -** *operating handle*		
	Disconnect Switch	DSFHN-HS12	
	Circuit Breaker	K7FHD-HS12	
	Allen Bradley - *1494V variable depth operating handle*		
	Disconnect Switch		
	30 to 200	1494V H1	for 2UD, UHD/ UHDM
	400 to 600	1494V H2	for UHD
	400	1494V H2	for UHDM
	Circuit Breaker	1494V H11	
	Cutler Hammer - *operating handle*		
	Disconnect Switch	C361H1 or H3	
	Circuit Breaker		
	150 A	C371H1 or H3	
	250 to 600 A	C371H5 or H7	for 2UD
	250 to 1200 A	C371H5 or H7	for UHD/UHDM
	Circuit Breaker	C371 Flex-Shaft™	handle mechanism
	General Electric - *operating handle*		
	Disconnect Switch	STDA1or STDA2	
	Circuit Breaker	STDA1or STDA2	
	Circuit Breaker Spectra-Flex™ cable operators		
	150 to 600 A	STDA1	
	SK1200 A	STDA3	
	Siemens I.T.E. Max-Flex™ - *operating handle*		
	Disconnect Switch variable depth	FHOHS	
	Circuit Breaker		
	125 to 600 A	FHOH	
	800 to 2000 A	FHOHN	
	Square D - *class 9422 operating mechanism*		
	Disconnect Switch variable depth	9422 type A1	
	Circuit Breaker variable depth	9422 type A1	
	Disconnect Switch with cable mechanism	9422 type A1	
	Circuit Breaker with cable mechanism	9422 type A1	

Part No.	Operator Make & Type	Manufacturer Part No.
AK1494FD	Allen Bradley	1494F and D
BPAK	Blank plate	

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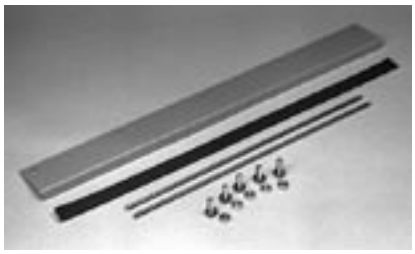
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Door Stop Kit

- Provides for door opening in fixed position as required.
- Prevents door swing that can occur in field maintenance situations.
- This door stop kit maintains NEMA 4x, 4, 3R and 12 ratings when installed correctly using the hardware and directions provided.

Part No.	DSTOPK





Drip Shield Kit

- Designed for use on Hammond NEMA 12 1418, and 1422 enclosures to protect door and hardware from falling dust and water.
- Cannot be used on NEMA 4 (mild steel or aluminum) or 4X due to interference with the top clamps on those units.
- Installs quickly and easily in the field with common tools.
- Each kit includes a drip shield, stainless steel bolts, plated nuts, neoprene gasket for drip shield and a stainless steel hinge pin (2 half length pins are supplied when required).
- Finished in gray.

Part No.	Fits Enclosure Width (Inches)
1481S12K	12
1481S16K	16
1481S20K	20
1481S24K	24
1481S30K	30
1481S36K	36
1481S42K	42
1481S48K	48
1481S60K	60
1481S72K	72



Remote door switch and magnet mount not included - must be ordered separately.



Light Kit & Accessories

- Light kits are offered in 18", 24" and 48" widths.
- CSA and UL component recognized.
- Features a manually operated switch, 115V convenience outlet, durable plastic lens, and 6 foot power cord (without plug).
- Can mount into light mounting channel, bolt through enclosure or by using magnet strip (available separately - see chart below.)
- Magnet mount can be used with mild steel enclosures only.
- Remote door switch available separately for automatic activation. Can be wired normally open or closed. 115/230 V AC
- 1¾" high x 4½" deep.
- Finished in white.
- Use standard 18", 24" or 48" T8 fluorescent bulb (not included)

Part No.	Description
FLK18T8[1]	18" Fluorescent Light Kit
FLK24T8[1]	24" Fluorescent Light Kit
FLK48T8[1]	48" Fluorescent Light Kit
FLK18MM	Magnet mount for 18" and 24" kit
FLK48MM	Magnet mount for 48" light kit
FLKDS	Remote Door Switch

[1] T8 fluorescent bulb not included

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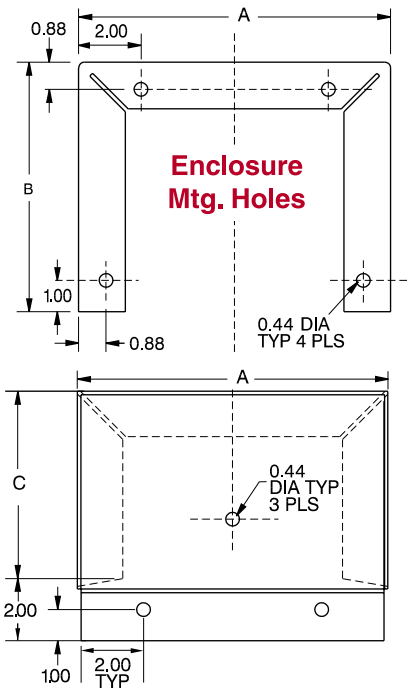
General Accessories
General Accessories



Floor Stand Kit

- Kit includes two mounting feet and hardware kit.
- Pre-punched mounting feet may be used as a template to drill holes on bottom of enclosure.
- Finished in gray or natural brushed stainless steel.





Floor Mtg. Holes

Steel Part No.	Stainless Steel Part No.	Foot Height	Enclosure Depth	Dimensions A	B	C
1481FA8K		6	8	8	6	4
1481FA10K		6	10	10	8	6
1481FA12K		6	12	12	8	6
1481FA16K		6	16	16	10	8
1481FA18K		6	18	18	8	6
1481FA20K		6	20	20	10	8
1481FC6K		12	6	6	5	4
1481FC8K	**1481FC8KSS**	12	8	8	6	4
1481FC10K	**1481FC10KSS**	12	10	10	8	6
1481FC12K	**1481FC12KSS**	12	12	12	8	6
1481FC16K	**1481FC16KSS**	12	16	16	10	8
1481FC18K		12	18	18	8	6
1481FC20K		12	20	20	10	8
1481FC24K		12	24	24	10	8
1481FE6K		15	6	6	5	4
1481FE8K		15	8	8	6	4
1481FE10K		15	10	10	8	6
1481FE12K		15	12	12	8	6
1481FE16K		15	16	16	10	8
1481FE18K		15	18	18	10	8
1481FE24K		15	24	24	10	8
1481FG6K		18	6	6	5	4
1481FG8K		18	8	8	8	6
1481FG10K		18	10	10	8	6
1481FG12K		18	12	12	8	6
1481FG16K		18	16	16	10	8
1481FK6K		24	6	6	5	4
1481FK8K		24	8	8	8	4
1481FK10K	**1481FK10KSS**	24	10	10	8	4
1481FK12K	**1481FK12KSS**	24	12	12	10	6
1481FK16K		24	16	16	12	8

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General Accessories
General Accessories



Pedestal Column



Pedestal Base

Pedestal

- Used for floor mounting for many types of enclosures, consolets or pushbutton boxes
- Provides wiring feature through the column.
- Meets NEMA Type 12 and 13 requirements.
- Finished in gray.

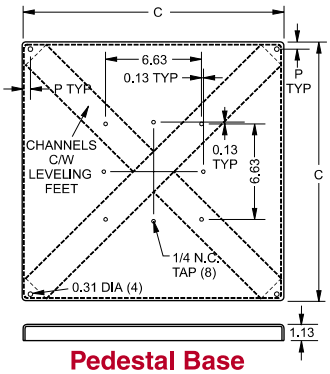
Pedestal Column

- Columns are formed from 14 gauge steel with 10 gauge flanges.
- Column access opening with gasketed cover.
- Columns include flange gaskets and a box connector.

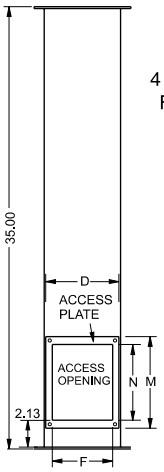
Pedestal Base

- Bases are formed from 10 gauge steel with additional reinforcing.
- Bases include levelling screws.

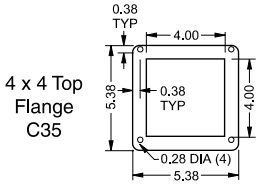
Part No.	Description	C	D	F	M	N	P
1495C35	Straight Column	–	3.75	2.75	7.25	6	–
1495D35	Straight Column	–	5.75	4.75	7.25	6	–
1495XK	Pedestal Base	18	–	–	–	–	0.5
1495XN	Pedestal Base	24	–	–	–	–	0.5



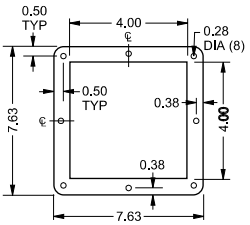
Pedestal Base



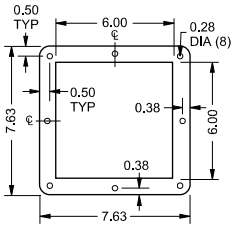
Pedestal Column



4 x 4 Top Flange C35



4 x 4 Bottom Flange C35



6 x 6 Top and Bottom Flange D35

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General Accessories
General Accessories



Touch-Up Spray Paint

- For use in matching standard Hammond colors.
- Provided in 12 oz. spray cans.

Touch Up - Spray Can

Part No.	Color
1413BKLGS	Black - Low Gloss
1413BKS	Black
1413CGRALS	Beige RAL7032
1413GFS	Gulf Blue
1413LRS	ANSI 61 Gray
1413NS	White
1413LGS	Light Gray 7035



Louvered Ventilating Plate

- Provides ventilation in enclosures where required.
- Easily installed in the field by cutting a square hole of the proper size and bolting the ventilator in place.
- Finished in gray.
- Hole diameter is 0.22".



Part No.	Plate Size		No. of Louvers	No. of Rows	Louvers Length	Opening Area (in^2)
	Height	Width				
1481L44	5.62	5.5	4	1	4	3.0
1481L66	7.87	7.5	14	2	2	2.8
1481L88	10.56	10.5	18	2	4	14.0



Casters

- Packaged in sets of four.
- 800 lb. load capacity per set.
- 4" swivel casters with brakes.
- Features zinc plated ball bearing pivot, composite wheels.

Part No.	**1425D**





1425 Series Casters

- Packaged in sets of four.
- Feature ball bearing, swivel and hard composition wheels.
- Available for 3 weight capacities.

Part No.	Mfg. Specified Capacity (Set of 4)	Wheel Diameter (inches)
1425B	360	3.0
1425BM	700	3.0
1425BH	1050	3.0



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General Accessories
General Accessories



Literature Pocket Kit
- For use as additional or replacement literature pockets.
- Kit includes pocket, high strength two-sided adhesive tape and surface preparation swab.
- Plastic pocket is black.
- Packaged individually.

Part No.	Height	Width	Depth
PKT66	6	6	0.75
PKT99	6	9	0.75
PKT1212	12	12	2.50



Enclosure Stabilizers
- Prevents floor mounted enclosures from falling over while being worked on before they are bolted to the floor.
- Install by slipping under enclosure mounting foot and tightening two thumb screws.
- Finished in gray.

Part No.	Overall Dimensions
1481ES (1 pair)	8 x 30





Panel Lifting Handles
- Used for lifting, transporting and installing panel assemblies in enclosures that are positioned horizontally.

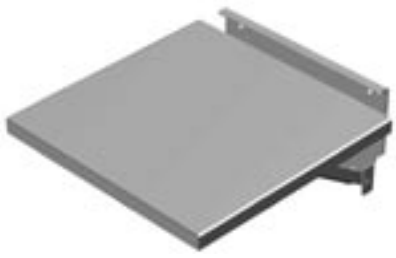
Part No.	1481H



Neoprene Gasket Kit - NEMA 12 Enclosures
- Self-adhesive cellular neoprene gasket for NEMA 12 enclosures.
- Supplied in 10 foot rolls, 0.19" x 0.75".

Urethane Gasket Kit - NEMA 4, 4X Enclosures
- Self adhesive microcell urethane gasket for NEMA 4, 4X enclosures.
- Supplied in 10 foot rolls, 0.25" x 0.75".

Part No.	Material	For NEMA Type
1481DJ10	Neoprene	12
1481DJN410	Urethane	4, 4X



Fold Down Shelf
- Supports various equipment used temporarily to service/program switchgear inside enclosures.
- Mounts with bolts through doors or sides.
- Weight capacity 100 lbs.
- Finished in beige.

Part No	Work Surface (In.) W	D
FDS1212	12	12
FDS1818	18	18



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Standards Sources

NEMA — National Electrical Manufacturers' Association

www.nema.org

- 1300 North 17th Street Rosslyn, VA 22209
- NEMA Standards Publication No. 250 enclosures for Electrical Equipment (1000 Maximum)
- NEMA Standards Publication No. ICS6 enclosures for Industrial Controls and Systems

UL — Underwriters' Laboratories Inc.

www.ul.com

- 333 Pfingsten Road, Northbrook, IL 60062
- UL 50 Cabinets and Boxes
- UL 508 Industrial Control Equipment
- UL 870 Wireways, Auxiliary Gutter, and Associated Fittings

CSA — CSA International

www.csa.ca

- 178 Rexdale Boulevard, Etobicoke (Toronto), Ontario, Canada M9W 1R3
- CSA Standard C22.2, No 0 General Requirements - Canadian Electrical Code, Part II
- CSA Standard C22.2, No 0.4 Bonding and Grounding of Electrical Equipment (Protective Equipment)
- CSA Standard C22.2, No. 14 Industrial Control Equipment for Use in Ordinary (Non-Hazardous) Locations
- CSA Standard C22.2, No. 40 Cutout, Junction, and Pull Boxes
- CSA Standard C22.2, No. 26 Construction and Test of Wireways, and Auxiliary Gutters, and Associated Fittings.
- CSA Standard C22.2, No. 94-M91 Special Purpose Enclosures

JIC — Joint Industry Council c/o AMT - The Association for Manufacturing Engineering

www.amtonline.org

- 7901 Westpark Drive, McLean, VA 22101
- EMP-1 Electrical Standards for Mass Production Equipment
- EGP-1 Electrical Standards for General Purpose Machine Tools
- These standards have been replaced by NFPA-79

EIA — Electronic Industries Association

Electronic Industries Alliance
www.eia.org

- 2500 Wilson Blvd, Arlington, VA 22201
- EIA RS-310-D Cabinets, Racks, Panels, and Associated Equipment

IEC — International Electrotechnical Commission

www.iec.ch

- 3 Rue de Varemb, Geneva, Switzerland
- IEC 60529 Classification of Degrees of Protection Provided by Enclosures

CE — Conformite Europeene

www.cemarking.net

- European Commission

ANSI — American National Standards Institute

American National Standards Institute
www.ansi.org

- 1819 L Street NW Washington, DC 20036

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Industry Definitions (per NEMA)

Introduction

An enclosure is a surrounding case constructed to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions. NEMA 250-2003.

General Definitions Pertaining To Enclosures

Cover: An unhinged portion of an enclosure that covers an opening.

Degree of Protection: The extent of protection provided by an enclosure against access to hazardous parts, against ingress of foreign solid objects and/or against ingress of water and verified by standardized test methods.

Design Tests: Tests to demonstrate performance of a product designed to applicable standards. (Note: Design tests are not intended to be production tests.) NEMA 250-2003.

Door: A hinged portion of an enclosure that covers an opening. NEMA 250-2003.

Hazardous (Classified) Locations are those areas, which may contain hazardous (classified) materials in sufficient quantity to create an explosion. See Article 500 of the National Electrical Code. NEMA 250-2003.

Hazardous (Classified) Materials are those gases, vapors, combustible dusts, fibers, or flyings, which are explosive under certain conditions. NEMA 250-2003.

Hazardous Parts are parts that are hazardous to approach or touch.

Indoor Locations are those areas, which are protected from exposure to the weather. NEMA 250-2003.

Knockout is a portion of the wall of an enclosure so fashioned that it may be removed readily by a hammer, screwdriver, and pliers at the time of installation in order to provide a hole for the attachment of an auxiliary device or raceway, cable, or fitting. NEMA 250-2003.

Non-Hazardous Locations: Areas, which do not contain hazardous (classified) materials in sufficient quantity to create an explosion. NEMA 250-2003.

Non-Ventilated means constructed so as to provide no intentional circulation of external air through the enclosure. NEMA 250-2003.

Oil-Resistant Gaskets are those made of material, which is resistant to oil, or oil fumes. NEMA 250-2003.

Outdoor Locations are those areas, which are exposed to the weather. NEMA 250-2003.

Ventilated means constructed so as to provide for the circulation of external air through the enclosure to remove excess heat, fumes, or vapors. NEMA 250-2003.

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Definitions Pertaining to Non-Hazardous Locations

Type 1 Enclosures are constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts and to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt)

Type 2 Enclosures are constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirty, and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing).

Type 3 Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt) and windblown dusty, to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow), and that will be undamaged by the external formation of ice on the enclosure.

Type 3R Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt) to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow), and that will be undamaged by the external formation of ice on the enclosure.

Type 3S Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust) to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow), red for which the external mechanisms) remain operable when ice laden.

Type 3X Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt) and windblown dusty, to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow), that provides an additional level of protection against corrosion and that will be undamaged by the external formation of ice on the enclosure.

Type 3XR Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt), to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow), that will be undamaged by the external formation of ice on the enclosure that provides an additional level of protection against corrosion, and that will be undamaged by the external formation of ice on the enclosure.

Type 3SX Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dusty, to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snowy, that provides an additional level of protection against corrosion, and for which the external mechanisms) remain operable when ice laden.

Type 4 Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dusty, to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water), and that will be undamaged by the external formation of ice on the enclosure.

Type 4X Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (windblown dusty, to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water), that provides an additional level of protection against corrosion, and that will be undamaged by the external formation of ice on the enclosure.

Type 5 Enclosures are constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and settling airborne dust, lint, fibers, and flyings), and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing).

Type 6 Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt), to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (hose directed water and the entry of water during occasional temporary submersion at a limited depths), and that will be undamaged by the external formation of ice on the enclosure.

Type 6P Enclosures are constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt), to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (hose directed water and the entry of water during prolonged submersion at a limited depths), that provides an additional level of protection against corrosion and that will be undamaged by the external formation of ice on the enclosure.

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NEMA Enclosure Classifications

Definitions Pertaining to Non-Hazardous Locations - Cont'd

Type 12 Enclosures are constructed (without knockouts) for indoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and circulating dust, lint, fibers, and flyings), and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing).

Type 12K Enclosures are constructed (with knockouts) for indoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (failing dirt and circulating dust, lint, fibers, and flyings), and to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing).

Type 13 Enclosures are constructed for indoor use to provide a degree of protection to personnel against access to hazardous parts, to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and circulating dust, lint, fibers, and flyings), to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (dripping and light splashing), and to provide a degree of protection against the spraying, splashing, and seepage of oil and non-corrosive coolants.

Definitions Pertaining to Hazardous (Classified) Locations

T**ype 7 Enclosures** constructed for indoor use in hazardous locations classified as Class I, Division 1, Groups A, B, C, or D, as defined in NFPA70. NEMA 250-2003.

Type 8 Enclosures constructed for either indoor or outdoor use in hazardous locations classified as Class I, Division 1, Groups A, B, C, or D, as defined in NFPA70. NEMA 250-2003.

Type 9 Enclosures constructed for indoor use in hazardous locations classified as Class II, Division 1,Groups E, F, or G, as defined in NFPA70. NEMA 250-2003.

Type 10 Enclosures constructed to meet the requirements of the Mine Safety and Health Administration, 30 CFR, Part 18. NEMA 250-2003. NEMA 250-2003.

Application for Enclosure Types

Type 1 general-purpose enclosures are suitable for general-purpose application indoors, where atmospheric conditions are normal. These enclosures serve as protection against falling dirt but are not dust tight.

Type 2 drip-tight (indoor) enclosures are similar to Type 1 enclosures, suitable for application where condensation may be severe, such as that encountered in cooling rooms or laundries.

Type 3 enclosures provide proper protection against windblown dust and weather hazards such as dirt, rain, sleet, or snow. They are suitable for application outdoors on ship docks, canal locks, construction work, and for application in subways and tunnels, use indoors where dripping water is a problem.

Type 3R enclosures provide proper protection falling dirt, rain, sleet, snow, undamaged by external formation of ice. They are suitable for application outdoors, they will not withstand wind blown dust.

Type 4 watertight enclosures are suitable for dairies, breweries, etc., where the enclosure may be subjected to large amounts of water from any angle. (They are not submersible).

Type 4X corrosion resistant enclosures satisfy the same requirements of Type 4, in addition, they are suitable for food processing plants, dairies, refineries, and other industries where corrosion is prominent.

Type 6 submersible enclosures are suitable for application where the equipment may be subject to occasional temporary submersion, such as quarries, mines, and manholes. The enclosure design will depend upon the specified conditions of pressure and time.

Type 9 hazardous location enclosures—Class II, Group E, F, or G. These enclosures are designed to meet the requirements of the "Canadian Electrical Code" Part I for Class II hazardous locations, and CSA codes section 18, Class II, Group E, F, and G.
Class II, Group E — atmospheres containing metal dust

Class II, Group F — atmospheres containing carbon black, coal, or coke dust

Class II, Group G — atmospheres containing flour, starch, or grain dust

Type 12 industrial use enclosures protect against dripping and light splashing of liquids. Hammond Type 12 enclosures meet JIC standard and also satisfy requirements of NEMA.

Type 12K industrial use enclosure same as type 12 but includes knockouts in the top and bottom end walls only.

Type 13 industrial use enclosures, protection against dust, spraying of water, oil, and non-corrosive coolant. These enclosures are suitable for application to machine tools and other industrial processing machines.

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Industry Definitons (NEMA Standards)
(continued)

Comparison of Specific Applications of Enclosures for Indoor Non Hazardous Locations

Provides a Degree of Protection Against The Following Environment Conditions	Enclosure Type 1[1]	4	4X	12	13
Incidental contact with enclosed equipment	•	•	•	•	•
Falling dirt	•	•	•	•	•
Falling liquids and lightly splashing		•	•	•	•
Circulating dust, lint and fiber flyings[2]		•	•	•	•
Settling airborne dust, lint and fiber flyings[2]		•	•	•	•
Hosedown and splashing water		•	•		
Oil and coolant seepage				•	•
Oil and coolant spraying and splashing					•
Corrosive agents			•		

[1] These enclosures may be ventilated
[2] These fibers and flyings are nonhazardous materials and are not considered Class III type ignitable fibers or combustible flyings. For Class III type ignitable fibers or combustible flyings see the National Electrical Code, article 500.

Comparison of Specific Applications of Enclosures for Outdoor Non Hazardous Locations

Provides a Degree of Protection Against The Following Environment Conditions	Enclosure Type 3R[1]	4	4X
Incidental contact with enclosed equipment	•	•	•
Rain, snow, and sleet [2]	•	•	•
Windblown dust, lint and fiber flyings		•	•
Hosedown		•	•
Corrosive agents			•

[1] These enclosures may be ventilated
[2] External operating mechanisms are not required to be operable when the enclosure is ice covered.

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Enclosure Type - NEMA, UL, CSA Cross Reference

Non-Hazardous Enclosures

Type	National Electrical Manufacturers' Association	Underwriters' Laboratories Inc.	Canadian Standards Association
1	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment to provide a degree of protection against falling dirt.	Indoor use primarily to provide a degree of protection against limited amount of falling dirt.	General purpose enclosure in ordinary locations.
2	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, and to provide a degree of protection against dripping and light splashing of liquids.	Indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt.	An enclosure for Indoor use, constructed so as to provide a degree of protection against dripping and light splashing of non-corrosive liquids, and falling dirt.
3	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with enclosed equipment to provide a degree of protection against falling dirt, rain, sleet, snow and windblown dust and that will be undamaged by the external formation of ice on the enclosure.	Outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, and windblown dust, undamaged by the external formation of ice on the enclosure.
3R	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with enclosed equipment to provide a degree of protection against falling dirt, rain, sleet, snow and that will be undamaged by the external formation of ice on the enclosure.	Outdoor use primarily to provide a degree of protection against rain, sleet; and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, and snow, undamaged by the external formation of ice on the enclosure.
4	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment: to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose directed water, and hose-directed water, and that will be undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use primarily to provide a degree of protection against windblown dust, and rain, splashing water, hose-directed water, and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, windblown dust, splashing and hose-directed water, undamaged by the external formation of ice on the enclosure.
4X	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion, and that will be undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, windblown dust, splashing and hose-directed water, undamaged by the external formation of ice on the enclosure, resists corrosion.
12	Enclosures constructed (without knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, against circulating dust, lint and fiber flyings, and against dripping and light splashing of liquids.	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.	An enclosure for indoor use, constructed so as to provide a degree of protection against circulating and settling dust and lint, fibre flyings; dripping and light splashing of non-corrosive liquids; not provided with knockouts.
13	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, against circulating dust, lint and fiber flyings, and against the spraying, splashing , and seepage of water, oil, and non-corrosive coolants.	Indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and non-corrosive coolant.	An enclosure for indoor use, constructed so as to provide a degree of protection against circulating and settling dust, lint and fibre flyings, seepage and spraying of non-corrosive liquids including oils and coolants.

Note: The specifications on this page are for comparative reference only and are not intended to provide the complete requirements or test qualifications published by various associations and agencies. Complete information may be obtained by contacting the appropriate organization as shown in the "Standards Sources" listing.

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Definition of Protection Grades IEC 529

IEC (International Electrotechnical Commission)

The IEC has established an enclosure grading system that produces an IP rating. (For example, IP 54 - "5" is the first character - refer to tables I & II. "4" is the second character - refer to table III - following page).

Table I
Degrees of Protection against Hazardous Parts

Degree of protection is indicated by the first characteristic numeral

First Characteristic Numeral	Brief Description	Definition
0	Non Protected	
1	Protected against access to hazardous parts with the back of a hand.	The Access probe, sphere of 50 mm ø, shall have adequate clearance from hazardous parts.
2	Protected against access to hazardous parts with a finger.	The jointed test finger of 12mm ø, 80 mm length, shall have adequate clearance from hazardous parts.
3	Protected against access to hazardous parts with a tool.	The access probe of 2.5 mm ø shall not penetrate.
4	Protected against access to hazardous parts with a wire.	The access probe of 1.0 mm ø shall not penetrate.
5	Protected against access to hazardous parts with a wire.	The access probe of 1.0 mm ø shall not penetrate.
6	Protected against access to hazardous parts with a wire.	The access probe of 1.0 mm ø shall not penetrate.

Note: In the case of the first characteristic numerals 3, 4, 5 and 6, protection against access to hazardous parts is satisfied if adequate clearance is kept. Due to the simultaneous requirement specified in Table II the definition “shall not penetrate” is given in Table I.

Table II
Degrees of Protection against Solid Foreign Objects

Degree of protection is indicated by the first characteristic numeral

First Characteristic Numeral	Brief Description	Definition
0	Non Protected	
1	Protected against solid foreign objects of 50 mm ø and greater.	The object probe, sphere of 50 mm ø, shall not fully penetrate.[1]
2	Protected against solid foreign objects of 12.5 mm ø and greater.	The object probe, sphere of 12.5 mm ø, shall not fully penetrate.[1]
3	Protected against solid foreign objects of 2.5 mm ø and greater.	The object probe of 2.5 mm ø shall not penetrate at all.[1]
4	Protected against solid foreign objects of 1.0 mm ø and greater.	The object probe of 1.0 mm ø shall not penetrate at all.[1]
5	Dust-protected	Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with atisfactory operation of the apparatus or to impair safety.
6	Dust-tight	No ingress of dust

[1] The full diameter ot the object probe shall not pass through an opening of the enclosure.

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Definition of Protection Grades IEC 529

IEC (International Electrotechnical Commission)

Table III

Degrees of Protection against Water

Degree of protection is indicated by the second characteristic numeral

Second Characteristic Numeral	Brief Description	Definition
0	Non Protected	
1	Protected against vertically falling water drops	Vertically falling drops shall have no harmful effects.
2	Protected against vertically falling water drops when enclosure tilted up to 15°.	Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.
3	Protected against spraying water.	Water sprayed at any angle up to 60° on either side of the vertical shall have no harmful effects.
4	Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effects.
5	Protected against water jets	Water projected in jets against the enclosure from any direction shall have no harmful effects.
6	Protected against powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects.
7	Protected against the effects of temporary immersion in water.	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time.
8	Protected against the effects of continuous immersion in water.	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7.

NEMA TO IEC

Enclosure Rating Cross-Reference[1]
(CANNOT be used to convert IEC Classification designations to NEMA Type Ratings)

NEMA TYPE	IP20	IP22	IP24	IP54	IP55	IP66	IP67
1	▯						
2		▯					
3					▯		
3R			▯				
4						▯	
4X						▯	
6							▯
12, 12K				▯			
13				▯			

[1] This cross reference is an approximation of NEMA and IEC classifications for reference only. Please consult the appropriate agencies for requirements and test qualifications for complete information.

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Corrosion Resistance of Various Enclosure Materials

- Hammond offers many different material types in its broad product offering. Deciding on the appropriate material depends on various factors with a major consideration being resistance properties of the material to various chemical laden environments. Below is a general summary of the suitability of the materials offered in Hammond's product lines. Please consult Hammond for specific questions you may have for a particular environment.

Suitability	Acids	Alkalies	Solvents
High	Stainless Steel Type 316 Stainless Steel Type 304	Stainless Steel Type 316 Stainless Steel Type 304	Stainless Steel Type 316 Stainless Steel Type 304 Fibreglass Aluminum Steel - Powder Painted
Satisfactory	Fiberglass Steel - Powder Painted	Fiberglass	
Limited	Aluminum	Aluminum Steel - Powder Painted	

Material Type

Suggested Applications for Corrosion Resistant Materials

Material Type	Hammond NEMA Rating	Suggested Application
Stainless Steel Type 304	4X	Indoor/outdoor applications. Ideal for hose-down and wet areas (e.g. food processing, water treatment, dairies, breweries, etc.)
Stainless Steel Type 316	4X	Indoor/outdoor applications. Ideal for most all environments especially marine uses.
Aluminum	4	Indoor/outdoor applications. Ideal for marine uses as well as environments containing solvents, petrochemicals, some acids and most sulfates and nitrates.
Fibreglass Reinforced Polyester	4X	Indoor/outdoor applications. Ideal for continually wet, cold or salty environments. Also useful in solvent or chemical laden areas. Strong resistance to heat, dilute acids and bases, impact, fire and outdoor exposure.

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Information Specific to Hammond Enclosures

Intended Use of Hammond Enclosures

Hammond electrical enclosures shown in this catalog are designed for industrial electrical applications and as such should be selected, transported, handled, installed, and re-fabricated by qualified professional electricians. These products are not intended for resale or repackaging for household applications or use by the general public. All applications of these products should be in accordance with proper inspections, test approvals, warnings, notices, and instructions as indicated by Consumer Product Safety Regulations and all other applicable local, state, provincial, and federal laws.

Hammond Manufacturing supplies enclosures built to the 3rd party specifications (i.e. UL, CSA) as noted in this catalog. Hammond offers no guarantee or warranty as to the applicability of our products outside these specifications. If you have any concerns about the appropriate enclosure selection for your application, please contact Hammond for advice regarding the variables in your particular situation.

Hammond Paint Finish

NEMA Type 12

Hammond Type 12 industrial enclosures are finished with recoatable powder coating.

NEMA Type 4

Hammond Type 4 industrial enclosures are finished with recoatable powder coating.

NEMA Type 4X for Painted Mild Steel Enclosures

Users of previous Hammond Manufacturing catalogs may have noticed a change to the ratings noted for Type 4 painted mild steel enclosures. Previously, Hammond catalog's have shown that these enclosures also carried the Type 4X designation, but this is no longer the case. There has been NO CHANGE WHATSOEVER to the quality of the Hammond paint finish. Hammond has removed the 4X approval from this catalog only to avoid misapplication of painted steel enclosures. The testing criteria for Type 4X is not as rigorous as many users may assume.

It is important for users to understand the NEMA 4/4X rating. In response to concern about the costs of corrosion, the Underwriters' Laboratory (UL) and the National Electrical Manufacturers' Association (NEMA) have developed a rating system for electrical enclosures, stipulating that certain minimum conditions of corrosion resistance be met.

Material tested to UL1332 (type 4 protective coating) is prerequisite to a type 4X salt spray test. The NEMA 4X rating is applied to material that has met, under laboratory conditions, a two hundred hour salt spray with no worse pitting than that exhibited on a Type 304 Stainless sample run at the same time. This rating, however, does not test for corrosion resistance beyond this, or with chemicals other than salt.

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Instructions For Repainting Hammond Standard Paints & Powders

IMPORTANT: Check with your paint manufacturer to insure the paint you are applying is compatible with the paint on the Hammond product.

Hammond paints are re-paintable with most baking enamels, alkyd air dry enamels, industrial acrylic enamels, two component urethanes & two component epoxy's by following the instructions below.

Note: Automotive type paint finishes usually require additional surface preparation when applied over polyester powder finishes. Contact the paint supplier for more information.

IMPORTANT: For best adhesion results, correct surface preparation before painting is essential.

Type 12 and Type 4 Enclosures

INSTRUCTIONS FOR REPAINTING HAMMOND POWDER COATED PRODUCTS

- All Hammond standard powder coated products can be repainted.
- Check with your paint manufacturer to insure that the paint you are applying is compatible with the paint on the Hammond product.
- (Hammond uses Polyester and Hybrid powder coatings on standard catalogue products) - Always test the repainting process in an inconspicuous area prior to use.
- This painting instruction applies to ANSI 61 (Gray) and RAL7035 (Light Gray).
- All other Hammond powder paints can be repainted by following step 5.

1. IMPORTANT - This step is mandatory and must be done carefully.
   Wipe down the entire area to be repainted with lacquer thinner or acetone. Use a clean cloth and change cloth frequently.
2. Apply finish coats as per your paint manufacturers instructions.
3. Allow paint to cure properly for best adhesion and hardness. Consult your paint manufacturer for proper cure time and temperature.
4. The above procedure promotes good inter-coat adhesion. To enhance this process sanding with a 220 grit sandpaper is recommended. Remove all sanding dust using clean rags and a tack cloth.
5. All Hammond standard powders can be repainted after a light sanding with a 240 grit sandpaper and cleaning.

Note: Always test the repainting process in an inconspicuous area prior to use.

Hammond Touch-up (Spray Cans)

Part Number	Color Match
1413LRS	Gray (ANSI 61)
1413NS	White
1413CGRALS	Beige (RAL7032)
1413BKS	Black
1413LGS	Light Gray (RAL 7035

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Decimal and Millimeter Equivalents

Fractions of an Inch					Decimal	Millimeters
4ths	8ths	16ths	32nds	64ths	(to 3 places)	(to 1 place)
				1/64	0.016	0.4
			1/32		0.031	0.8
				3/64	0.047	1.2
		1/16			0.063	1.6
				5/64	0.078	2.0
			3/32		0.094	2.4
				7/64	0.109	2.8
	1/8				0.125	3.2
				9/64	0.141	3.6
			5/32		0.156	4.0
				11/64	0.172	4.4
		3/16			0.188	4.8
				13/64	0.203	5.2
			7/32		0.219	5.6
				15/64	0.234	6.0
1/4					0.250	6.4
				17/64	0.266	6.7
			9/32		0.281	7.1
				19/64	0.297	7.5
		5/16			0.313	7.9
				21/64	0.328	8.3
			11/32		0.344	8.7
				23/64	0.359	9.1
	3/8				0.375	9.5
				25/64	0.391	9.9
			13/32		0.406	10.3
				27/64	0.422	10.7
		7/16			0.438	11.1
				29/64	0.453	11.5
			15/32		0.469	11.9
				31/64	0.484	12.3
1/2					0.500	12.7
				33/64	0.516	13.1
			17/32		0.531	13.5
				35/64	0.547	13.9
		9/16			0.563	14.3
				37/64	0.578	14.7
			19/32		0.594	15.1
				39/64	0.609	15.5
	5/8				0.625	15.9
				41/64	0.641	16.3
			21/32		0.656	16.7
				43/64	0.672	17.1
		11/16			0.688	17.5
				45/64	0.703	17.9
			23/32		0.719	18.3
				47/64	0.734	18.7
3/4					0.750	19.1
				49/64	0.766	19.4
			25/32		0.781	19.8
				51/64	0.797	20.2
		13/16			0.813	20.6
				53/64	0.828	21.0
			27/32		0.844	21.4
				55/64	0.859	21.8
	7/8				0.875	22.2
				57/64	0.891	22.6
			29/32		0.906	23.0
				59/64	0.922	23.4
		15/16			0.938	23.8
				61/64	0.953	24.2
			31/32		0.969	24.6
				63/64	0.984	25.0
1					1.000	25.4

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Metric Conversion Information

LENGTH

1 mm = 0.039 in.	8 mm = 0.315 in.	60 mm = 2.362 in.	400 mm = 15.748 in.
2 mm = 0.079 in.	9 mm = 0.354 in.	70 mm = 2.756 in.	500 mm = 19.685 in.
3 mm = 0.118 in.	10 mm = 0.394 in.	80 mm = 3.150 in.	600 mm = 23.622 in.
4 mm = 0.157 in.	20 mm = 0.787 in.	90 mm = 3.543 in.	700 mm = 27.559 in.
5 mm = 0.197 in.	30 mm = 1.181 in.	100 mm = 3.937 in.	800 mm = 31.496 in.
6 mm = 0.236 in.	40 mm = 1.575 in.	200 mm = 7.874 in	900 mm = 35.433 in.
7 mm = 0.276 in.	50 mm = 1.969 in.	300 mm = 11.811 in.	1000 mm = 39.370 in.

Imperial to Metric

1 inch = 25.40 mm	1 foot = 0.3048 m
1 inch = 2.54 cm	1 yard = 91.44 cm
1 foot = 30.48 cm	1 yard = 0.9144 m

Imperial to Metric

1 mm = 0.03937 in.	1 m = 3.281 feet
1 cm = 0.3937 in.	1 m = 1.0936 yards
1 m = 39.37 in.	

AREA

Imperial to Metric

1 sq. inch = 645.16 sq. millimeters
1 sq. inch = 6.4516 sq. centimeters
1 sq. foot = 929.03 sq. centimeters
1 sq. foot = 0.0929 sq. meter
1 sq. yard = 0.836 sq. meter

Imperial to Metric

1 sq. millimeter (mm2) = 0.00155 sq. inch
1 sq. centimeter (cm2) = 0.1550 sq. inch
1 sq. meter (m2) = 10.7640 sq. feet
1 sq. meter (m2) = 1.196 sq. yards

TEMPERATURE

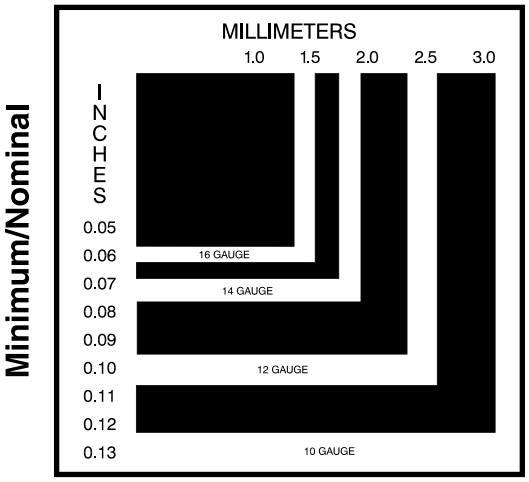
Imperial to Metric

Absolute Units
1° Fahrenheit = 0.555° Celsius
Thermometer Reading
To convert a °F temperature reading, use the following equation:
(°F - 32) x 0.555 = °C

Metric to Imperial

Absolute Units
1° Celsius = 1.8° Fahrenheit
Thermometer Reading
To convert a °C temperature reading, use the following equation:
(°C x 1.8) + 32 = °F

Material Thickness Cross Reference Chart



3.0 mm = 0.118 ins.	10 gauge = 0.1345/0.1225 ins. = 3.416/3.112 mm
2.5 mm = 0.098 ins.	12 gauge = 0.1046/0.0926 ins. = 2.657/2.352 mm
2.0 mm = 0.079 ins.	14 gauge = 0.0747/0.0667 ins. = 1.897/1.694 mm
1.5 mm = 0.059 ins.	16 gauge = 0.0598/0.0528 ins. = 1.519/1.341 mm

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Corrosion Resistance Table

Non-Metallic Enclosures

Chemical and Concentration	Polyester SMC +25% FV Resistance	Chemical and Concentration	Polycarbonate (Trans. Door) Resistance
Acetone 100%	None	Acetone 100%	None
Acetone 100%	None	Acetone 100%	None
Ammonia 5%	High	Ammonia 5%	High*
Aniline purera	Average*	Aniline purera	None
Benzene pure	None	Benzene pure	None
Carbontetrachloride pure	Average	Carbontetrachloride pure	None
Chromic acid 10%	High	Chromic acid 10%	Average*
Citric Acid 100%	High*	Citric Acid 100%	High (10%)
Fresh water	High	Fresh water	High
Gasoline 10%	High	Gasoline 10%	High (100%)
Hexane pure	None	Hexane pure	High
Hydrochloric acid 30%	High	Hydrochloric acid 30%	High
Lactic acid 100%	High*	Lactic acid 100%	High (10%)
Linseed oil pure	High	Linseed oil pure	High
Methyl alcohol 50%	Average*	Methyl alcohol 50%	High (96%)
Naptha 100%	High*	Naptha 100%	Average*
Nitric acid 20%	High (20%), None (100%)	Nitric acid 20%	High (10%), None (100%)
Phenol 5%	Average	Phenol 5%	None
Phosphoric acid 100%	High*	Phosphoric acid 100%	High
Saturated chlorine water	High*	Saturated chlorine water	None
Saturated ether	Average*	Saturated ether	Average*
Sea water	High	Sea water	High
Sulfuric acid 70%	High	Sulfuric acid 70%	High (50%), Average (70%), None (100%)
Toluene pure	High	Toluene pure	None
Trichloroethylene pure	None*	Trichloroethylene pure	None
Hexane	Average		
Aromatic Hydrocarbons	None		
Ethers	None		
Fuel Oil	High		
Liquid Bromine	None		
Liquid Chlorine	None		
Mineral Bases	High		
Mineral oils and greases	High		
Mineral Salts	High		
Naphtaline	Average		
Nitrobenzene	None		
Pure Aniline	None		
Sulphuric Acid	High		
Urea	High		

* Currently undergoing testing - this is a calculated reference.

*Please refer to the Corrosion Resistant Section (see pages **119-156**) for Non-Metallic Enclosure information.*

The table provided is a guide to assist in identifying the suitability of using non-metallic enclosures in various environments. For specific suitability, prototype samples must be evaluated under actual conditions.
Hammond cannot offer guarantees of warranty as actual conditions may differ from test conditions.

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Hoffman to Hammond Cross Reference

Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A10086CH	A10P8	1414PHI6	Ham incl. Panel	9
A10086CHFL	A10P8	EJ1086	Ham incl. Panel	3
A10086CHNF	A10P8	1414N4PHI6	Ham incl. Panel	11
A1008CH	A10P8	1414PHI	Ham incl. Panel	9
A1008CHFL	A10P8	EJ1084	Ham incl. Panel	3
A1008CHNF	A10P8	1414N4PHI	Ham incl. Panel	11
A1008CHNFSS	A10P8	1414N4PHSSI	Ham incl. Panel	65
A1008CHNFSS6	A10P8	1414N4PHS16I	Ham incl. Panel	67
A1008CHS	A10P8	1414PHRI	Ham incl. Panel	9
A1008LP	A10P8	1414I	Ham incl. Panel	5
A1008NF	A10P8	1414N4I	Ham incl. Panel	7
A1008NFAL	A10P8	1414N4ALI	Ham incl. Panel	55
A1008NFSS	A10P8	1414N4SSI	Ham incl. Panel	69
A1008SC	A10P8	1414SCI	Ham incl. Panel	13
A10106CH	A10P10	1414PHJ6	Ham incl. Panel	9
A10106CHFL	A10P10	EJ10106	Ham incl. Panel	3
A1066JFGQRPWR	N/A	PJ864TW	Functional Cross	113
A1086CHQRFG	N/A	PJU1084L	Ham 4" Deep	120
A1086CHQRFGW	N/A	PJU1084LW	Ham 4" Deep	128
A1086CHSCFG	N/A	PJU1084H	Ham 4" Deep	126
A1086CHSCFGW	N/A	PJU1084HW	Ham 4" Deep	128
A10JS	N/A	14S10		436
A10JTMA	N/A	14B10		436
A10N104	A10N10P	N1J10104	Ham incl. Panel	363
A10N106	A10N10P	N1J10106	Ham incl. Panel	363
A10N10P	N/A	N1JP1010		NIC
A10N84	A10N8P	N1J1084	Ham incl. Panel	363
A10N86	A10N8P	N1J1086	Ham incl. Panel	363
A10N8P	N/A	N1JP108		NIC
A10P10	N/A	14R0909		433
A10P10G	N/A	14G0909		433
A10P8	N/A	14R0907		433
A10P8AL	N/A	14A0907		433
A10P8C	N/A	14F0907		129
A10P8G	N/A	14G0907		433
A10R104	N/A	C3R10104SC		375
A10R106	N/A	C3R10106SC		375
A10R84	N/A	C3R1084SC		375
A10R86	N/A	C3R1086SC		375
A10R86HCLO	N/A	C3R1086HCLO		382
A10R86HCR	N/A	C3R1086HCR		379
A11117PC3	N/A	PB272718		101
A11117PC3CC	N/A	PB272718CC		99
A1111P3	N/A	PBP2727		102
A1187PC3	N/A	PB271818		101
A1187PC3CC	N/A	PB271818CC		99
A118P3	N/A	PBP2718		102
A12064CH	A12P6	1414PHKC4	Ham incl. Panel	9
A12064CHFL	A12P6	EJ1264	Ham incl. Panel	3
A12106CHNFSS6	A12P10	1414N4PHS16K	Ham incl. Panel	67
A12106CHQRFG	N/A	PJU12106L	Also PJ (PJU shown)	120
A12106CHQRFGW	N/A	PJU12106LW		128
A12106CHSCFG	N/A	PJU12106H	Also PJ (PJU shown)	126
A12106CHSCFGW	N/A	PJU12106HW		128
A12106NFSS	A12P10	1414N4SSK	Ham incl. Panel	69
A12108CH	A12P10	1414PHK8	Ham incl. Panel	9
A12108CHFL	A12P10	EJ12108	Ham incl. Panel	3
A1210CH	A12P10	1414PHK	Ham incl. Panel	9
A1210CHFL	A12P10	EJ12105	Ham incl. Panel	3
A1210CHNF	A12P10	1414N4PHK	Ham incl. Panel	11
A1210CHS	A12P10	1414PHRK	Ham incl. Panel	9
A1210LP	A12P10	1414K	Ham incl. Panel	5
A1210NF	A12P10	1414N4K	Ham incl. Panel	7
A1210NFAL	A12P10	1414N4ALK	Ham incl. Panel	55
A1210SC	A12P10	1414SCK	Ham incl. Panel	13
A1212CH	A12P12	1414PHL6	Ham incl. Panel	9
A1212CHFL	A12P12	EJ12126	Ham incl. Panel	3
A1212CHNF	A12P12	1414N4PHL6	Ham incl. Panel	11
A1212CHNFSS	A12P12	1414N4PHSSL6	Ham incl. Panel	65
A1212CHNFSS6	A12P12	1414N4PHS16L6	Ham incl. Panel	67
A122406LP	A12P24	1418A6	Ham incl. Panel	32
A122408LP	A12P24	1418A8	Ham incl. Panel	32
A1287JFGQRPWR	N/A	PJ1086TW	Functional Cross	113
A12DLP12	N/A	18P0909		433
A12JS	N/A	14S12		436
A12JTMA	N/A	14B12		436
A12N104	A12N10P	N1J12104	Ham incl. Panel	363
A12N106	A12N10P	N1J12106	Ham incl. Panel	363
A12N10P	N/A	N1JP1210		NIC
A12N124	A12N12P	N1J12124	Ham incl. Panel	363
A12N126	A12N12P	N1J12126	Ham incl. Panel	363
A12N128	A12N12P	N1J12128	Ham incl. Panel	363
A12N12P	N/A	N1JP1212		NIC
A12NTMA2	N/A	18B212		437
A12P10	N/A	14R1109		433
A12P10AL	N/A	14A1109		433
A12P10C	N/A	14F1109		129
A12P10G	N/A	14G1109		433
A12P12	N/A	14R1111		433
A12P12G	N/A	14G1111		433
A12P24	N/A	18P0921		433
A12P6	N/A	14R1105		433
A12P6G	N/A	14G1105		433
A12R104	N/A	C3R12104SC		375
A12R106	N/A	C3R12106SC		375
A12R106HCLO	N/A	C3R12106HCLO		382
A12R106HCR	N/A	C3R12106HCR		379
A12R1210HCR	N/A	C3R121210HCR		379
A12R124	N/A	C3R12124SC		375
A12R126	N/A	C3R12126SC		375
A12R126HCLO	N/A	C3R12126HCLO		382
A12R126HCR	N/A	C3R12126HCR		379
A12R128	N/A	C3R12128SC		375
A12R44	N/A	C3R1244SC		375
A12R84	N/A	C3R1284SC		375
A12R86	N/A	C3R1286SC		375
A12SPK10C	N/A	PJSP1210		129
A14086CH	A14P8	1414PHMH6	Ham incl. Panel	9
A14086CHFL	A14P8	EJ1486	Ham incl. Panel	3
A14107JFGQRPWR	N/A	PJ12106TW	Functional Cross	113
A14128CH	A14P12	1414PHM8	Ham incl. Panel	9
A14128CHFL	A14P12	EJ14128	Ham incl. Panel	3
A14128CHQRFG	N/A	PJU14126L	Also PJ (PJU shown)	120
A14128CHQRFGW	N/A	PJU14126LW	Also PJ (PJU shown)	128
A14128CHSCFG	N/A	PJU14126H	Also PJ (PJU shown)	126
A14128CHSCFGW	N/A	PJU14126HW	Also PJ (PJU shown)	128
A1412CH	A14P12	1414PHM6	Ham incl. Panel	9
A1412CHFL	A14P12	EJ14126	Ham incl. Panel	3
A1412CHNF	A14P12	1414N4PHM6	Ham incl. Panel	11
A1412CHNFSS	A14P12	1414N4PHSSM6	Ham incl. Panel	65
A1412CHNFSS6	A14P12	1414N4PHS16M6	Ham incl. Panel	67
A1412CHS	A14P12	1414PHRM6	Ham incl. Panel	9
A1412LP	A14P12	1414M6	Ham incl. Panel	5
A1412NF	A14P12	1414N4M6	Ham incl. Panel	7
A1412NFAL	A14P12	1414N4ALM6	Ham incl. Panel	55
A1412NFSS	A14P12	1414N4SSM6	Ham incl. Panel	69
A1412SC	A14P12	1414SCM6	Ham incl. Panel	13
A14JS	N/A	14S14		436
A14JTMA	N/A	14B14		436
A14N124	A14N12P	N1J14124	Ham incl. Panel	363
A14N126	A14N12P	N1J14126	Ham incl. Panel	363
A14N128	A14N12P	N1J14128	Ham incl. Panel	363
A14N12P	N/A	N1JP1412		NIC
A14P12	N/A	14R1311		433
A14P12AL	N/A	14A1311		433
A14P12C	N/A	14F1311		129
A14P12G	N/A	14G1311		433
A14P8	N/A	14R1307		433
A14P8G	N/A	14G1307		433
A14SPK12C	N/A	PJSP1412		129
A15117PC3	N/A	PB362718		101
A15117PC3CC	N/A	PB362718CC		99
A1511P3	N/A	PBP3627		102
A15R126	N/A	C3R15126SC		375

Functional Cross indicates that the product performs the same function, but may have some dimensional and/or construction differences.
Ham incl. Panel - Hammond enclosure includes panel

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A15R128	N/A	C3R15128SC		375
A16106CH	A16P10	1414PHN6	Ham incl. Panel	9
A16106CHFL	A16P10	EJ16106	Ham incl. Panel	3
A161206LP	A16P12	1418B6	Ham incl. Panel	32
A161208LP	A16P12	1418B8	Ham incl. Panel	32
A161210LP	A16P12	1418B10	Ham incl. Panel	32
A16128JFGQRPWR	N/A	PJ14126TW	Functional Cross	113
A161410CH	A16P14	1414PHO10	Ham incl. Panel	9
A161410CHFL	A16P14	EJ161410	Ham incl. Panel	3
A16148CH	A16P14	1414PHO8	Ham incl. Panel	9
A16148CHFL	A16P14	EJ16148	Ham incl. Panel	3
A16148CHQRFG	N/A	PJU16148L	Also PJ (PJU shown)	120
A16148CHQRFGW	N/A	PJU16148LW	Also PJ (PJU shown)	128
A16148CHSCFG	N/A	PJU16148H	Also PJ (PJU shown)	126
A16148CHSCFGW	N/A	PJU16148HW	Also PJ (PJU shown)	128
A1614CH	A16P14	1414PHO6	Ham incl. Panel	9
A1614CHFL	A16P14	EJ16146	Ham incl. Panel	3
A1614CHNF	A16P14	1414N4PHO6	Ham incl. Panel	11
A1614CHNFSS	A16P14	1414N4PHSSO6	Ham incl. Panel	65
A1614CHNFSS6	A16P14	1414N4PHS16O6	Ham incl. Panel	67
A1614CHS	A16P14	1414PHRO6	Ham incl. Panel	9
A1614LP	A16P14	1414O6	Ham incl. Panel	5
A1614NF	A16P14	1414N4O6	Ham incl. Panel	7
A1614NFAL	A16P14	1414N4ALO6	Ham incl. Panel	55
A1614NFSS	A16P14	1414N4SSO6	Ham incl. Panel	69
A1614SC	A16P14	1414SCO6	Ham incl. Panel	13
A161606LP	A16P16	1418G6	Ham incl. Panel	32
A161608LP	A16P16	1418G8	Ham incl. Panel	32
A162006LP	A20P16	1418CR6	Ham incl. Panel	32
A162008LP	A20P16	1418CR8	Ham incl. Panel	32
A16H1206ALLP	A16P12	1418N4ALB6	Ham incl. Panel	61
A16H1206SS6LP	A16P12	1418N4S16B6	Ham incl. Panel	85
A16H1206SSLP	A16P12	1418N4SSB6	Ham incl. Panel	83
A16H1208SS6LP	A16P12	1418N4S16B8	Ham incl. Panel	85
A16H1208SSLP	A16P12	1418N4SSB8	Ham incl. Panel	83
A16H12ALP	A16P12	1418N4B6	Ham incl. Panel	35
A16H12BLP	A16P12	1418N4B8	Ham incl. Panel	35
A16H1606SS6LP	A16P16	1418N4S16G6	Ham incl. Panel	85
A16H1606SSLP	A16P16	1418N4SSG6	Ham incl. Panel	83
A16H16ALP	A16P16	1418N4G6	Ham incl. Panel	35
A16H2006SS6LP	A20P16	1418N4S16CR6	Ham incl. Panel	85
A16H2006SSLP	A20P16	1418N4SSCR6	Ham incl. Panel	83
A16H20ALP	A20P16	1418N4CR6	Ham incl. Panel	35
A16JS	N/A	14S16		436
A16N126	A16N12P	N1J16126	Ham incl. Panel	363
A16N12ALP	A16N12MP	N1A16127	Ham incl. Panel	365
A16N12BLP	A16N12MP	N1A16129	Ham incl. Panel	365
A16N12MP	N/A	AP1612		435
A16N12MP	N/A	AP1612		435
A16N12P	N/A	N1JP1612		NIC
A16N16ALP	A16N16MP	N1A16167	Ham incl. Panel	365
A16N16MP	N/A	AP1616		435
A16N20ALP	A16N20MP	N1A16207	Ham incl. Panel	365
A16N20MP	N/A	AP1620		435
A16NTMA2	N/A	18B216		437
A16P10	N/A	14R1509		433
A16P10G	N/A	14G1509		433
A16P12	N/A	18P1309		433
A16P14	N/A	14R1513		433
A16P14AL	N/A	14A1513		433
A16P14C	N/A	14F1513		129
A16P14G	N/A	14G1513		433
A16P16	N/A	18P1313		433
A16R126	N/A	C3R16126SC		375
A16R126HCLO	N/A	C3R16126HCLO		382
A16R126HCR	N/A	C3R16126HCR		380
A16R166HCLO	N/A	C3R16166HCLO		382
A16R166HCR	N/A	C3R16166HCR		380
A16SPK14C	N/A	PJSP1614		129
A16T	N/A	18S16		437
A18149JFGQRPWR	N/A	PJ16148TW	Functional Cross	113
A181610CHQRFG	N/A	PJU181610L	Also PJ (PJU shown)	120
A181610CHQRFGW	N/A	PJU181610LW	Also PJ (PJU shown)	128
A181610CHSCFG	N/A	PJU181610H	Also PJ (PJU shown)	126
A181610CHSCFGW	N/A	PJU181610HW	Also PJ (PJU shown)	128
A18P16C	N/A	F1868		129
A18R124	N/A	C3R18124SC		375
A18R126	N/A	C3R18126SC		375
A18R128	N/A	C3R18128SC		375
A18R1810	N/A	C3R181810SC		375
A18R1810HCR	N/A	C3R181810HCR		380
A18R184	N/A	C3R18184SC		375
A18R186	N/A	C3R18186SC		375
A18R186HCR	N/A	C3R18186HCR		380
A18R188	N/A	C3R18188SC		375
A18R66	N/A	C3R1866SC		375
A18SBASE	N/A	1495XK		449
A18SPK16C	N/A	PJSP1816		129
A201206LP	A20P12	1418CA6	Ham incl. Panel	32
A201208LP	A20P12	1418CA8	Ham incl. Panel	32
A201606LP	A20P16	1418C6	Ham incl. Panel	32
A201608LP	A20P16	1418C8	Ham incl. Panel	32
A201610LP	A20P16	1418C10	Ham incl. Panel	32
A201612LP	A20P16	1418C12	Ham incl. Panel	33
A202006LP	A20P20	1418D6	Ham incl. Panel	32
A202008LP	A20P20	1418D8	Ham incl. Panel	32
A202010LP	A20P20	1418D10	Ham incl. Panel	32
A202406LP	A24P20	1418ER6	Ham incl. Panel	32
A202408LP	A24P20	1418ER8	Ham incl. Panel	32
A20AB2208LP	A20P20	1447AA8	Ham incl. Panel	179
A20C16ALP	A20P16	1418JC7	Ham incl. Panel	17
A20C16BLP	A20P16	1418JC9	Ham incl. Panel	17
A20C20ALP	A20P20	1418JD7	Ham incl. Panel	17
A20C20BLP	A20P20	1418JD9	Ham incl. Panel	17
A20H1606ALLP	A20P16	1418N4ALC6	Ham incl. Panel	61
A20H1606GQRLP	N/A	PHW20166	Functional Cross	141
A20H1606SS6LP	A20P16	1418N4S16C6	Ham incl. Panel	85
A20H1606SSLP	A20P16	1418N4SSC6	Ham incl. Panel	83
A20H1608GQRLP	N/A	PJ20168L	Functional Cross	110
A20H1608SS6LP	A20P16	1418N4S16C8	Ham incl. Panel	85
A20H1608SSLP	A20P16	1418N4SSC8	Ham incl. Panel	83
A20H1610ALLP	A20P16	1418N4ALC10	Ham incl. Panel	61
A20H1610GQRLP	N/A	PJU201610LF	Functional Cross	120
A20H1610SS6LP	A20P16	1418N4S16C10	Ham incl. Panel	85
A20H1610SSLP	A20P16	1418N4SSC10	Ham incl. Panel	83
A20H1612GQRLP	N/A	PHW201612	Functional Cross	141
A20H16ALP	A20P16	1418N4C6	Ham incl. Panel	35
A20H16BLP	A20P16	1418N4C8	Ham incl. Panel	35
A20H16CLP	A20P16	1418N4C10	Ham incl. Panel	35
A20H2006SS6LP	A20P20	1418N4S16D6	Ham incl. Panel	85
A20H2006SSLP	A20P20	1418N4SSD6	Ham incl. Panel	83
A20H2008SS6LP	A20P20	1418N4S16D8	Ham incl. Panel	85
A20H20ALP	A20P20	1418N4D6	Ham incl. Panel	35
A20H20BLP	A20P20	1418N4D8	Ham incl. Panel	35
A20H2408SS6LP	A24P20	1418N4S16ER8	Ham incl. Panel	85
A20H2408SSLP	A24P20	1418N4SSER8	Ham incl. Panel	83
A20H24BLP	A24P20	1418N4ER8	Ham incl. Panel	35
A20N126	A20N12P	N1J20126	Ham incl. Panel	363
A20N12P	N/A	N1JP2012		NIC
A20N16ALP	A20N16MP	N1A20167	Ham incl. Panel	365
A20N16BLP	A20N16MP	N1A20169	Ham incl. Panel	365
A20N16MP	N/A	AP2016		435
A20N20ALP	A20N20MP	N1A20207	Ham incl. Panel	365
A20N20BLP	A20N20MP	N1A20209	Ham incl. Panel	365
A20N20MP	N/A	AP2020		435
A20N24BLP	A20N24MP	N1A20249	Ham incl. Panel	365
A20NTMA2	N/A	18B220		437
A20P12	N/A	18P1709		433
A20P16	N/A	18P1713		433
A20P16C	N/A	F2068		129
A20P20	N/A	18P1717		433
A20R166HCLO	N/A	C3R20166HCLO		382
A20R166HCR	N/A	C3R20166HCR		380
A20R208HCLO	N/A	C3R20208HCLO		382

Functional Cross indicates that the product performs the same function, but may have some dimensional and/or construction differences.
Ham incl. Panel - Hammond enclosure includes panel

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Hoffman to Hammond Cross Reference

Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A20R208HCR	N/A	C3R20208HCR		380
A20SA2208LP	A20P20	1447SA8	Ham incl. Panel	146
A20SA2210LP	A20P20	1447SA10	Ham incl. Panel	146
A20T	N/A	18S20		437
A21ABA	N/A	AK1494FD		446
A21ABVA	N/A	AKU		446
A21BAP	N/A	BPAK		446
A2211P3	N/A	PBP5427		102
A22157PC3CC	N/A	PB543618CC		99
A241206LP	A12P24	1418AR6	Ham incl. Panel	32
A241208LP	A12P24	1418AR8	Ham incl. Panel	32
A241210LP	A12P24	1418AR10	Ham incl. Panel	33
A241606LP	A24P16	1418H6	Ham incl. Panel	32
A241608LP	A24P16	1418H8	Ham incl. Panel	32
A242006LP	A24P20	1418E6	Ham incl. Panel	32
A242008LP	A24P20	1418E8	Ham incl. Panel	32
A242010LP	A24P20	1418E10	Ham incl. Panel	33
A242012LP	A24P20	1418E12	Ham incl. Panel	33
A242016LP	A24P20	1418E16	Ham incl. Panel	33
A242406LP	A24P24	1418J6	Ham incl. Panel	32
A242408LP	A24P24	1418J8	Ham incl. Panel	32
A242410LP	A24P24	1418J10	Ham incl. Panel	33
A242412LP	A24P24	1418J12	Ham incl. Panel	33
A242416LP	A24P24	1418J16	Ham incl. Panel	33
A243008LP	A30P24	1418KR8	Ham incl. Panel	32
A244208WFLP	A42P24	1422P8	Ham incl. Panel	37
A244808WFLP	A48P24	1422PW8	Ham incl. Panel	37
A24AB2208LP	A24P20	1447AB8	Ham incl. Panel	179
A24AB2210LP	A24P20	1447AB10	Ham incl. Panel	179
A24AB2608LP	A24P24	1447AC8	Ham incl. Panel	179
A24AB2610LP	A24P24	1447AC10	Ham incl. Panel	179
A24C20ALP	A24P20	1418JE7	Ham incl. Panel	17
A24C20BLP	A24P20	1418JE9	Ham incl. Panel	17
A24C24ALP	A24P24	1418JJ7	Ham incl. Panel	17
A24C24BLP	A24P24	1418JJ9	Ham incl. Panel	17
A24C24CLP	A24P24	1418JJ11	Ham incl. Panel	17
A24H12ALP	A12P24	1418N4AR6	Ham incl. Panel	35
A24H1608SS6LP	A24P16	1418N4S16H8	Ham incl. Panel	85
A24H1608SSLP	A24P16	1418N4SSH8	Ham incl. Panel	83
A24H16ALP	A24P16	1418N4H6	Ham incl. Panel	35
A24H2006ALLP	A24P20	1418N4ALE6	Ham incl. Panel	61
A24H2006SS6LP	A24P20	1418N4S16E6	Ham incl. Panel	85
A24H2006SSLP	A24P20	1418N4SSE6	Ham incl. Panel	83
A24H2008GQRLP	N/A	PJ24208RL	Functional Cross	116
A24H2008SS6LP	A24P20	1418N4S16E8	Ham incl. Panel	85
A24H2008SSLP	A24P20	1418N4SSE8	Ham incl. Panel	83
A24H2010ALLP	A24P20	1418N4ALE10	Ham incl. Panel	61
A24H2010GQRLP	N/A	PJ242010RL	Functional Cross	116
A24H2010SS6LP	A24P20	1418N4S16E10	Ham incl. Panel	85
A24H2010SSLP	A24P20	1418N4SSE10	Ham incl. Panel	83
A24H20ALP	A24P20	1418N4E6	Ham incl. Panel	35
A24H20BLP	A24P20	1418N4E8	Ham incl. Panel	35
A24H20CLP	A24P20	1418N4E10	Ham incl. Panel	35
A24H2406SS6LP	A24P24	1418N4S16J6	Ham incl. Panel	85
A24H2406SSLP	A24P24	1418N4SSJ6	Ham incl. Panel	83
A24H2408ALLP	A24P24	1418N4ALJ8	Ham incl. Panel	61
A24H2408GQRLP	N/A	PJ24248RL	Functional Cross	116
A24H2408SS6LP	A24P24	1418N4S16J8	Ham incl. Panel	85
A24H2408SSLP	A24P24	1418N4SSJ8	Ham incl. Panel	83
A24H2412SS6LP	A24P24	1418N4S16J12	Ham incl. Panel	85
A24H2412SSLP	A24P24	1418N4SSJ12	Ham incl. Panel	83
A24H24ALP	A24P24	1418N4J6	Ham incl. Panel	35
A24H24BLP	A24P24	1418N4J8	Ham incl. Panel	35
A24H3008SS6LP	A30P24	1418N4S16KR8	Ham incl. Panel	85
A24H3008SSLP	A30P24	1418N4SSKR8	Ham incl. Panel	83
A24H30BLP	A30P24	1418N4KR8	Ham incl. Panel	35
A24HS2108LP	A24P20	1447SN4B8	Ham incl. Panel	161
A24HS2108SSLP	A24P20	1447SN4SSB8	Ham incl. Panel	165
A24HS2508LP	A24P24	1447SN4C8	Ham incl. Panel	161
A24HS2508SSLP	A24P24	1447SN4SSC8	Ham incl. Panel	165
A24N16ALP	A24N16MP	N1A24167	Ham incl. Panel	365
A24N16MP	N/A	AP2416		435
A24N20ALP	A24N20MP	N1A24207	Ham incl. Panel	365
A24N20ALP	A24N20MP	N1A24207	Ham incl. Panel	365
A24N20BLP	A24N20MP	N1A24209	Ham incl. Panel	365
A24N20BLP	A24N20MP	N1A24209	Ham incl. Panel	365
A24N20CLP	A24N20MP	N1A242012	Ham incl. Panel	365
A24N20MP	N/A	AP2420		435
A24N24ALP	A24N24MP	N1A24247	Ham incl. Panel	365
A24N24BLP	A24N24MP	N1A24249	Ham incl. Panel	365
A24N24BLP	A24N24MP	N1A24249	Ham incl. Panel	365
A24N24DLP	A24N24MP	N1A242412	Ham incl. Panel	365
A24N24MP	N/A	AP2424		435
A24NTMA2	N/A	18B224		437
A24NTMA3	N/A	18B324		437
A24P16	N/A	18P2113		433
A24P20	N/A	18P2117		433
A24P20C	N/A	F2420		129
A24P24	N/A	18P2121		433
A24P24C	N/A	F2424		129
A24R126	N/A	C3R24126SC		375
A24R168	N/A	C3R24168SC		375
A24R1810	N/A	C3R241810SC		375
A24R186	N/A	C3R24186SC		375
A24R188	N/A	C3R24188SC		375
A24R208	N/A	C3R24208SC		375
A24R208HCLO	N/A	C3R24208HCLO		382
A24R208HCR	N/A	C3R24208HCR		380
A24R2410	N/A	C3R242410SC		375
A24R2410HCR	N/A	C3R242410HCR		380
A24R2412	N/A	C3R242412SC		375
A24R246	N/A	C3R24246SC		375
A24R248	N/A	C3R24248SC		375
A24R248HCLO	N/A	C3R24248HCLO		382
A24R248HCR	N/A	C3R24248HCR		380
A24R88	N/A	C3R2488SC		375
A24SA2208LP	A24P20	1447SB8	Ham incl. Panel	146
A24SA2210LP	A24P20	1447SB10	Ham incl. Panel	146
A24SA2608LP	A24P24	1447SC8	Ham incl. Panel	146
A24SA2610LP	A24P24	1447SC10	Ham incl. Panel	146
A24SBASE	N/A	1495XN		449
A24T	N/A	18S24		437
A301606LP	A30P16	1418FG6	Ham incl. Panel	32
A302006LP	A30P20	1418F6	Ham incl. Panel	32
A302008LP	A30P20	1418F8	Ham incl. Panel	32
A302010LP	A30P20	1418F10	Ham incl. Panel	33
A302406LP	A30P24	1418K6	Ham incl. Panel	32
A302408LP	A30P24	1418K8	Ham incl. Panel	32
A302410LP	A30P24	1418K10	Ham incl. Panel	33
A302412LP	A30P24	1418K12	Ham incl. Panel	33
A302416LP	A30P24	1418K16	Ham incl. Panel	33
A302420LP	A30P24	1418K20	Ham incl. Panel	33
A302424LP	A30P24	1418K24	Ham incl. Panel	33
A303008LP	A30P30	1418KK8	Ham incl. Panel	32
A303012LP	A30P30	1418KK12	Ham incl. Panel	33
A303608LP	A36P30	1418MR8	Ham incl. Panel	32
A304210WFLP	A42P30	1422R10	Ham incl. Panel	37
A304810WFLP	A48P30	1422RW10	Ham incl. Panel	37
A306010WFLP	A60P30	1422RX10	Ham incl. Panel	37
A30AB2208LP	A30P20	1447AD8	Ham incl. Panel	179
A30AB2210LP	A30P20	1447AD10	Ham incl. Panel	179
A30AB2608LP	A30P24	1447AE8	Ham incl. Panel	179
A30AB2610LP	A30P24	1447AE10	Ham incl. Panel	179
A30C20ALP	A30P20	1418JF7	Ham incl. Panel	17
A30C20BLP	A30P20	1418JF9	Ham incl. Panel	17
A30C24ALP	A30P24	1418JK7	Ham incl. Panel	17
A30C24BLP	A30P24	1418JK9	Ham incl. Panel	17
A30C24DLP	A30P24	1418JK13	Ham incl. Panel	17
A30H2008SS6LP	A30P20	1418N4S16F8	Ham incl. Panel	85
A30H2008SSLP	A30P20	1418N4SSF8	Ham incl. Panel	83
A30H20ALP	A30P20	1418N4F6	Ham incl. Panel	35
A30H20BLP	A30P20	1418N4F8	Ham incl. Panel	35
A30H2406GQRLP	N/A	PHW30247	Functional Cross	141
A30H2408ALLP	A30P24	1418N4ALK8	Ham incl. Panel	61

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Ham incl. Panel - Hammond enclosure includes panel

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A30H2408GQRLP	N/A	PJ30248RL	Functional Cross	116
A30H2408SS6LP	A30P24	1418N4S16K8	Ham incl. Panel	85
A30H2408SSLP	A30P24	1418N4SSK8	Ham incl. Panel	83
A30H2410GQRLP	N/A	PJ302410RL	Functional Cross	116
A30H2410SS6LP	A30P24	1418N4S16K10	Ham incl. Panel	85
A30H2410SSLP	A30P24	1418N4SSK10	Ham incl. Panel	83
A30H2412ALLP	A30P24	1418N4ALK12	Ham incl. Panel	61
A30H2412GQRLP	N/A	PHW302412	Functional Cross	141
A30H2412SS6LP	A30P24	1418N4S16K12	Ham incl. Panel	85
A30H2412SSLP	A30P24	1418N4SSK12	Ham incl. Panel	83
A30H2416SS6LP	A30P24	1418N4S16K16	Ham incl. Panel	85
A30H2416SSLP	A30P24	1418N4SSK16	Ham incl. Panel	83
A30H24ALP	A30P24	1418N4K6	Ham incl. Panel	35
A30H24BLP	A30P24	1418N4K8	Ham incl. Panel	35
A30H24CLP	A30P24	1418N4K10	Ham incl. Panel	35
A30H24DLP	A30P24	1418N4K12	Ham incl. Panel	35
A30H3008SS6LP	A30P30	1418N4S16KK8	Ham incl. Panel	85
A30H3008SSLP	A30P30	1418N4SSKK8	Ham incl. Panel	83
A30H30BLP	A30P30	1418N4KK8	Ham incl. Panel	35
A30HS2508LP	A30P24	1447SN4E8	Ham incl. Panel	161
A30HS2508SSLP	A30P24	1447SN4SSE8	Ham incl. Panel	165
A30N20ALP	A30N20MP	N1A30207	Ham incl. Panel	365
A30N20BLP	A30N20MP	N1A30209	Ham incl. Panel	365
A30N24ALP	A30N24MP	N1A30247	Ham incl. Panel	365
A30N24ALP	A30N24MP	N1A30247	Ham incl. Panel	365
A30N24BLP	A30N24MP	N1A30249	Ham incl. Panel	365
A30N24BLP	A30N24MP	N1A30249	Ham incl. Panel	365
A30N24DLP	A30N24MP	N1A302412	Ham incl. Panel	365
A30N24MP	N/A	AP3024		435
A30N30BLP	A30N30MP	N1A30309	Ham incl. Panel	365
A30NTMA2	N/A	18B230		437
A30NTMA3	N/A	18B330		437
A30P16	N/A	18P2713		433
A30P20	N/A	18P2717		433
A30P24	N/A	18P2721		433
A30P24C	N/A	F3024		129
A30P30	N/A	18P2727		433
A30R2410	N/A	C3R302410SC		375
A30R2410HCR	N/A	C3R302410HCR		380
A30R248	N/A	C3R30248SC		375
A30R248HCLO	N/A	C3R30248HCLO		382
A30R248HCR	N/A	C3R30248HCR		380
A30R3012	N/A	C3R303012SC		375
A30R3012HCR	N/A	C3R303012HCR		381
A30R3016	N/A	C3R303016SC		375
A30R3016HCR	N/A	C3R303016HCR		381
A30R308HCR	N/A	C3R30308HCR		380
A30SA2208LP	A30P20	1447SD8	Ham incl. Panel	146
A30SA2210LP	A30P20	1447SD10	Ham incl. Panel	146
A30SA2608LP	A30P24	1447SE8	Ham incl. Panel	146
A30SA2610LP	A30P24	1447SE10	Ham incl. Panel	146
A30SA2612LP	A30P24	1447SE12	Ham incl. Panel	146
A30T	N/A	18S30		437
A32N34HQ	N/A	CMCQP2		360
A362406LP	A36P24	1418L6	Ham incl. Panel	32
A362408LP	A36P24	1418L8	Ham incl. Panel	32
A362410LP	A36P24	1418L10	Ham incl. Panel	33
A362412LP	A36P24	1418L12	Ham incl. Panel	33
A363006LP	A36P30	1418M6	Ham incl. Panel	32
A363008LP	A36P30	1418M8	Ham incl. Panel	32
A363010LP	A36P30	1418M10	Ham incl. Panel	33
A363012LP	A36P30	1418M12	Ham incl. Panel	33
A363016LP	A36P30	1418M16	Ham incl. Panel	33
A363020LP	A36P30	1418M20	Ham incl. Panel	33
A363608LP	A36P36	1418LL8	Ham incl. Panel	32
A363612LP	A36P36	1418LL12	Ham incl. Panel	33
A364212WFLP	A42P36	1422UV12	Ham incl. Panel	37
A364812WFLP	A48P36	1422UW12	Ham incl. Panel	37
A366012WFLP	A60P36	1422UX12	Ham incl. Panel	37
A36AB2608LP	A36P24	1447AF8	Ham incl. Panel	179
A36AB2610LP	A36P24	1447AF10	Ham incl. Panel	179
A36AB3208LP	A36P30	1447AG8	Ham incl. Panel	179
A36AB3210LP	A36P30	1447AG10	Ham incl. Panel	179
A36AB3212LP	A36P30	1447AG12	Ham incl. Panel	179
A36C24ALP	A36P24	1418JL7	Ham incl. Panel	17
A36C24BLP	A36P24	1418JL9	Ham incl. Panel	17
A36C24CLP	A36P24	1418JL11	Ham incl. Panel	17
A36C30BLP	A36P30	1418JM9	Ham incl. Panel	17
A36C30DLP	A36P30	1418JM13	Ham incl. Panel	17
A36H2408SS6LP	A36P24	1418N4S16L8	Ham incl. Panel	85
A36H2408SSLP	A36P24	1418N4SSL8	Ham incl. Panel	83
A36H2410SS6LP	A36P24	1418N4S16L10	Ham incl. Panel	85
A36H2410SSLP	A36P24	1418N4SSL10	Ham incl. Panel	83
A36H24ALP	A36P24	1418N4L6	Ham incl. Panel	35
A36H24BLP	A36P24	1418N4L8	Ham incl. Panel	35
A36H3008ALLP	A36P30	1418N4ALM8	Ham incl. Panel	61
A36H3008SS6LP	A36P30	1418N4S16M8	Ham incl. Panel	85
A36H3008SSLP	A36P30	1418N4SSM8	Ham incl. Panel	83
A36H3010SS6LP	A36P30	1418N4S16M10	Ham incl. Panel	85
A36H3010SSLP	A36P30	1418N4SSM10	Ham incl. Panel	83
A36H3012ALLP	A36P30	1418N4ALM12	Ham incl. Panel	61
A36H3012GQRLP	N/A	PHW363012	Functional Cross	141
A36H3012SS6LP	A36P30	1418N4S16M12	Ham incl. Panel	85
A36H3012SSLP	A36P30	1418N4SSM12	Ham incl. Panel	83
A36H3016SS6LP	A36P30	1418N4S16M16	Ham incl. Panel	85
A36H3016SSLP	A36P30	1418N4SSM16	Ham incl. Panel	83
A36H30BLP	A36P30	1418N4M8	Ham incl. Panel	35
A36H30CLP	A36P30	1418N4M10	Ham incl. Panel	35
A36H30DLP	A36P30	1418N4M12	Ham incl. Panel	35
A36H30FLP	A36P30	1418N4M16	Ham incl. Panel	35
A36H3612SS6LP	A36P36	1418N4S16LL12	Ham incl. Panel	85
A36H3612SSLP	A36P36	1418N4SSLL12	Ham incl. Panel	83
A36HS2508LP	A36P24	1447SN4F8	Ham incl. Panel	161
A36HS2508SSLP	A36P24	1447SN4SSF8	Ham incl. Panel	165
A36HS3108LP	A36P30	1447SN4G8	Ham incl. Panel	161
A36HS3108SSLP	A36P30	1447SN4SSG8	Ham incl. Panel	165
A36N24ALP	A36N24MP	N1A36247	Ham incl. Panel	365
A36N24ALP	A36N24MP	N1A36247	Ham incl. Panel	365
A36N24BLP	A36N24MP	N1A36249	Ham incl. Panel	365
A36N24BLP	A36N24MP	N1A36249	Ham incl. Panel	365
A36N24MP	N/A	AP3624		435
A36N30ALP	A36N30MP	N1A36307	Ham incl. Panel	365
A36N30BLP	A36N30MP	N1A36309	Ham incl. Panel	365
A36N30BLP	A36N30MP	N1A36309	Ham incl. Panel	365
A36N30DLP	A36N30MP	N1A363012	Ham incl. Panel	365
A36N30DLP	A36N30MP	N1A363012	Ham incl. Panel	365
A36NTMA2	N/A	18B236		437
A36NTMA3	N/A	18B336		437
A36P24	N/A	18P3321		433
A36P30	N/A	18P3327		433
A36P36	N/A	18P3333		433
A36R2412HCR	N/A	C3R362412HCR		381
A36R3012	N/A	C3R363012SC		375
A36R3012HCR	N/A	C3R363012HCR		381
A36R3610HCR	N/A	C3R363610HCR		381
A36R3612	N/A	C3R363612SC		375
A36R3612HCR	N/A	C3R363612HCR		381
A36SA2608LP	A36P24	1447SF8	Ham incl. Panel	146
A36SA2610LP	A36P24	1447SF10	Ham incl. Panel	146
A36SA3208LP	A36P30	1447SG8	Ham incl. Panel	146
A36SA3210LP	A36P30	1447SG10	Ham incl. Panel	146
A36SA3212LP	A36P30	1447SG12	Ham incl. Panel	146
A36SA3216LP	A36P30	1447SG16	Ham incl. Panel	146
A36T	N/A	18S36		437
A4044CH	N/A	1414PHA4		9
A4044CHFL	N/A	EJ444		3
A4044LP	N/A	1414A4		5
A404CH	N/A	1414PHA		9
A404CHFL	N/A	EJ443		3
A404CHNF	N/A	1414N4PHA		11
A404LP	N/A	1414A		5
A404NF	N/A	1414N4A		7
A404NFSS	N/A	1414N4SSA		69
A404SC	N/A	1414SCA		13

Functional Cross indicates that the product performs the same function, but may have some dimensional and/or construction differences.
Ham incl. Panel - Hammond enclosure includes panel

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Hoffman to Hammond Cross Reference

Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A422408LP	A42P24	1418N8	Ham incl. Panel	32
A423008LP	A42P30	1418O8	Ham incl. Panel	32
A423010LP	A42P30	1418O10	Ham incl. Panel	33
A423012LP	A42P30	1418O12	Ham incl. Panel	33
A423608LP	A42P36	1418P8	Ham incl. Panel	32
A423610LP	A42P36	1418P10	Ham incl. Panel	33
A423612LP	A42P36	1418P12	Ham incl. Panel	33
A423616LP	A42P36	1418P16	Ham incl. Panel	33
A424212WFLP	A42P42	1422VV12	Ham incl. Panel	37
A424812WFLP	A48P42	1422VW12	Ham incl. Panel	37
A426012WFLP	A60BFP42	1422VX12	Ham incl. Panel	37
A42AB3208LP	A42P30	1447AH8	Ham incl. Panel	179
A42AB3210LP	A42P30	1447AH10	Ham incl. Panel	179
A42AB3212LP	A42P30	1447AH12	Ham incl. Panel	179
A42AB3808LP	A42P36	1447AJ8	Ham incl. Panel	179
A42AB3810LP	A42P36	1447AJ10	Ham incl. Panel	179
A42AB3812LP	A42P36	1447AJ12	Ham incl. Panel	179
A42H3010SS6LP	A42P30	1418N4S16O10	Ham incl. Panel	85
A42H3010SSLP	A42P30	1418N4SSO10	Ham incl. Panel	83
A42H30BLP	A42P30	1418N4O8	Ham incl. Panel	35
A42H3608SS6LP	A42P30	1418N4S16P8	Ham incl. Panel	85
A42H3608SSLP	A42P36	1418N4SSP8	Ham incl. Panel	83
A42H36BLP	A42P36	1418N4P8	Ham incl. Panel	35
A42HS3112LP	A42P30	1447SN4H12	Ham incl. Panel	161
A42HS3112SSLP	A42P30	1447SN4SSH12	Ham incl. Panel	165
A42HS3712LP	A42P36	1447SN4J12	Ham incl. Panel	161
A42HS3712SSLP	A42P36	1447SN4SSJ12	Ham incl. Panel	165
A42N24BLP	A42N24MP	N1A42249	Ham incl. Panel	365
A42N3013	A42P30	N1A423012	Ham incl. Panel	365
A42N3013	A42P30	N1A423012	Ham incl. Panel	365
A42N3613	A42P36	N1A423612	Ham incl. Panel	365
A42N3613	A42P36	N1A423612	Ham incl. Panel	365
A42P24	N/A	18P3921		433
A42P30	N/A	18P3927		433
A42P36	N/A	18P3933		433
A42R3012HCR	N/A	C3R423012HCR		381
A42R3612HCR	N/A	C3R423612HCR		381
A42SA3208LP	A42P30	1447SH8	Ham incl. Panel	146
A42SA3210LP	A42P30	1447SH10	Ham incl. Panel	146
A42SA3212LP	A42P30	1447SH12	Ham incl. Panel	146
A42SA3808LP	A42P36	1447SJ8	Ham incl. Panel	146
A42SA3810LP	A42P36	1447SJ10	Ham incl. Panel	146
A42SA3812LP	A42P36	1447SJ12	Ham incl. Panel	146
A42T	N/A	18S42		437
A44CCOL	N/A	1495C35		449
A482408LP	A48P24	1418Q8	Ham incl. Panel	32
A483008LP	A48P30	1418R8	Ham incl. Panel	32
A483010LP	A48P30	1418R10	Ham incl. Panel	33
A483608LP	A48P36	1418S8	Ham incl. Panel	32
A483610LP	A48P36	1418S10	Ham incl. Panel	33
A483612LP	A48P36	1418S12	Ham incl. Panel	33
A483616LP	A48P36	1418S16	Ham incl. Panel	33
A483620LP	A48P36	1418S20	Ham incl. Panel	33
A484812WFLP	A48P48	1422WW12	Ham incl. Panel	37
A48AB3808LP	A48P36	1447AK8	Ham incl. Panel	179
A48AB3810LP	A48P36	1447AK10	Ham incl. Panel	179
A48AB3812A2LP	A48P36	1447AK122	Ham incl. Panel	179
A48AB3812LP	A48P36	1447AK12	Ham incl. Panel	179
A48AB3816LP	A48P36	1447AK16	Ham incl. Panel	179
A48C36CLP	A48P36	1418JS11	Ham incl. Panel	17
A48H30CLP	A48P30	1418N4R10	Ham incl. Panel	35
A48H3608ALLP	A48P36	1418N4ALS8	Ham incl. Panel	61
A48H3608SS6LP	A48P36	1418N4S16S8	Ham incl. Panel	85
A48H3608SSLP	A48P36	1418N4SSS8	Ham incl. Panel	83
A48H3610SS6LP	A48P36	1418N4S16S10	Ham incl. Panel	85
A48H3610SSLP	A48P36	1418N4SSS10	Ham incl. Panel	83
A48H3612GQRLP	N/A	PJW483610L	Functional Cross	130
A48H3612SS6LP	A48P36	1418N4S16S12	Ham incl. Panel	85
A48H3612SSLP	A48P36	1418N4SSS12	Ham incl. Panel	83
A48H3616GQRLP	N/A	PHW483616	Functional Cross	141
A48H3616SS6LP	A48P36	1418N4S16S16	Ham incl. Panel	85
A48H3616SSLP	A48P36	1418N4SSS16	Ham incl. Panel	83
A48H36BLP	A48P36	1418N4S8	Ham incl. Panel	35
A48H36CLP	A48P36	1418N4S10	Ham incl. Panel	35
A48H36DLP	A48P36	1418N4S12	Ham incl. Panel	35
A48H36FLP	A48P36	1418N4S16	Ham incl. Panel	35
A48HS3712LP	A48P36	1447SN4K12	Ham incl. Panel	161
A48HS3712SSLP	A48P36	1447SN4SSK12	Ham incl. Panel	165
A48N3611	A48P36	N1A483612	Ham incl. Panel	365
A48N3613	A48P36	1420T12	Ham incl. Panel	367
A48P24	N/A	18P4521		433
A48P30	N/A	18P4527		433
A48P36	N/A	18P4533		433
A48R3612HCR	N/A	C3R483612HCR		381
A48R3616	N/A	C3R483616SC		375
A48R3616HCR	N/A	C3R483616HCR		381
A48R368	N/A	C3R48368SC		375
A48SA3808LP	A48P36	1447SK8	Ham incl. Panel	146
A48SA3810LP	A48P36	1447SK10	Ham incl. Panel	146
A48SA3812LP	A48P36	1447SK12	Ham incl. Panel	146
A48SA3816LP	A48P36	1447SK16	Ham incl. Panel	146
A48T	N/A	18S48		437
A4AXFN	N/A	FAN10A115		414
A4R44	N/A	C3R444SC		375
A544208LP	A54P42	1422A8F	Ham incl. Panel	39
A54P42	N/A	22P5038		434
A602418FS	N/A	1418TW18		43
A603608LP	A60P36	1418T8	Ham incl. Panel	32
A603610LP	A60P36	1418T10	Ham incl. Panel	33
A603612LP	A60P36	1418T12	Ham incl. Panel	33
A603616LP	A60P36	1418T16	Ham incl. Panel	33
A603620LP	A60P36	1418T20	Ham incl. Panel	33
A603624FS	N/A	1418TY24		43
A6044CH	A6P4	1414PHC4	Ham incl. Panel	9
A6044CHFL	A6P4	EJ644	Ham incl. Panel	3
A6044CHNFSS	A6P4	1414N4PHSSC4	Ham incl. Panel	65
A6044CHNFSS6	A6P4	1414N4PHS16C4	Ham incl. Panel	67
A6044LP	A6P4	1414C4	Ham incl. Panel	5
A6044NFSS	A6P4	1414N4SSC4	Ham incl. Panel	69
A604808LP	A60P48	1422B8F	Ham incl. Panel	39
A604810LP	A60P48	1422B10F	Ham incl. Panel	39
A604812LP	A60P48	1422B12F	Ham incl. Panel	39
A604816LP	A60P48	1422B16F	Ham incl. Panel	39
A604818FSD	N/A	1418AW18		47
A604820LP	A60P48	1422B20F	Ham incl. Panel	39
A604824LP	A60P48	1422B24F	Ham incl. Panel	39
A604CH	A6P4	1414PHC	Ham incl. Panel	9
A604CHFL	A6P4	EJ643	Ham incl. Panel	3
A604CHNF	A6P4	1414N4PHC	Ham incl. Panel	11
A604LP	A6P4	1414C	Ham incl. Panel	5
A604NF	A6P4	1414N4C	Ham incl. Panel	7
A604NFAL	A6P4	1414N4ALC	Ham incl. Panel	55
A604SC	A6P4	1414SCC	Ham incl. Panel	13
A606010LP	A60P60	1422D10F	Ham incl. Panel	39
A606012LP	A60P60	1422D12F	Ham incl. Panel	39
A606016LP	A60P60	1422D16F	Ham incl. Panel	39
A606024LP	A60P60	1422D24F	Ham incl. Panel	39
A606CH	A6P6	1414PHE	Ham incl. Panel	9
A606CHFL	A6P6	EJ664	Ham incl. Panel	3
A606CHNF	A6P6	1414N4PHE	Ham incl. Panel	11
A606CHNFSS	A6P6	1414N4PHSSE	Ham incl. Panel	65
A606CHNFSS6	A6P6	1414N4PHS16E	Ham incl. Panel	67
A606LP	A6P6	1414E	Ham incl. Panel	5
A606NF	A6P6	1414N4E	Ham incl. Panel	7
A606NFAL	A6P6	1414N4ALE	Ham incl. Panel	55
A606NFSS	A6P6	1414N4SSE	Ham incl. Panel	69
A606SC	A6P6	1414SCE	Ham incl. Panel	13
A60AB3810LP	A60P36	1447AL10	Ham incl. Panel	179
A60AB3812A2LP	A60P36	1447AL122	Ham incl. Panel	179
A60AB3812LP	A60P36	1447AL12	Ham incl. Panel	179
A60AB3816LP	A60P36	1447AL16	Ham incl. Panel	179
A60CPX4812LPFTC	A60P48	2UDCP604912FFTC	Ham incl. Panel	187
A60CPX6012LPFTC	A60P60	2UDCP606112FFTC	Ham incl. Panel	187
A60FSCPS	N/A	1418ACS		48

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A60H3612ALLP	A60P36	1418N4ALT12	Ham incl. Panel	61
A60H3612GQRLP	N/A	PJW603610L	Hoffman Deeper	130
A60H3612SS6LP	A60P36	1418N4S16T12	Ham incl. Panel	85
A60H3612SSLP	A60P36	1418N4SST12	Ham incl. Panel	83
A60H3616GQRLP	N/A	PHW603616	Functional Cross	141
A60H3616SS6LP	A60P36	1418N4S16T16	Ham incl. Panel	85
A60H3616SSLP	A60P36	1418N4SST16	Ham incl. Panel	83
A60H36BLP	A60P36	1418N4T8	Ham incl. Panel	35
A60H36CLP	A60P36	1418N4T10	Ham incl. Panel	35
A60H36FLP	A60P36	1418N4T16	Ham incl. Panel	35
A60HS3712LP	A60P36	1447SN4L12	Ham incl. Panel	161
A60HS3712SSLP	A60P36	1447SN4SSL12	Ham incl. Panel	165
A60P24F1	N/A	60TWFW		48
A60P24F2	N/A	60TWHW		48
A60P36	N/A	18P5733		433
A60P36F1	N/A	60TYFW		48
A60P36F2	N/A	60TYHW		48
A60P48	N/A	22P5644		434
A60P48F1	N/A	60AWFW		48
A60P60	N/A	22P5656		434
A60R3612HCR	N/A	C3R603612HCR		381
A60RP24F5	N/A	1418TFHP		49
A60RP24F6	N/A	1418THHP		49
A60SA3808LP	A60P36	1447SL8	Ham incl. Panel	146
A60SA3810LP	A60P36	1447SL10	Ham incl. Panel	146
A60SA3812A24LP	A60P36	1447S46L12	Ham incl. Panel	146
A60SA3812LP	A60P36	1447SL12	Ham incl. Panel	146
A60SA3816LP	A60P36	1447SL16	Ham incl. Panel	146
A60SMP14	N/A	60FD14		48
A60T	N/A	18S60		437
A60X4912LPFTC	A60P48	2UD605012FFTC	Ham incl. Panel	185
A60X4918LPFTC	A60P48	2UD605018FFTC	Ham incl. Panel	185
A60X6112LPFTC	A60P60	2UD606212FFTC	Ham incl. Panel	185
A60X6118LPFTC	A60P60	2UD606218FFTC	Ham incl. Panel	185
A62H4812SS6LP	A60P48	1422N4S16B12F	Ham incl. Panel	89
A62H4812SSLP	A60P48	1422N4SSB12F	Ham incl. Panel	87
A62H48CLP	A60P48	1422N4B10F	Ham incl. Panel	41
A62H6012SS6LP	A60P60	1422N4S16D12F	Ham incl. Panel	89
A62H6012SSLP	A60P60	1422N4SSD12F	Ham incl. Panel	87
A62H60DLP	A60P60	1422N4D12F	Ham incl. Panel	41
A62N17HQ	N/A	CMCQP1		360
A65N38HQ	N/A	CMCQP3		360
A664CHQRFG	N/A	PJU664L	Also PJ (PJU shown)	120
A664CHQRFGW	N/A	PJU664LW	Also PJ (PJU shown)	128
A664CHSCFG	N/A	PJU664H	Also PJ (PJU shown)	126
A664CHSCFGW	N/A	PJU664HW	Also PJ (PJU shown)	128
A66CCOL	N/A	1495D35		449
A6JTMA	N/A	14B6		436
A6N64	A6N6P	N1J664	Ham incl. Panel	363
A6N6P	N/A	N1JP66		NIC
A6P4	N/A	14R0503		433
A6P4G	N/A	14G0503		433
A6P6	N/A	14R0505		433
A6P6AL	N/A	14A0505		433
A6P6C	N/A	14F0505		129
A6P6G	N/A	14G0505		433
A6R44	N/A	C3R644SC		375
A6R44HCR	N/A	C3R644HCR		379
A6R64	N/A	C3R664SC		375
A6R64HCR	N/A	C3R664HCR		379
A6R66	N/A	C3R666SC		375
A6SPK8C	N/A	PJSP108		129
A722418FS	N/A	1418W18		43
A722424FS	N/A	1418W24		43
A722424FSDA	N/A	1418WD24		43
A722430FSDA	N/A	1418WD30		43
A722436FSDA	N/A	1418WD36		43
A722525FGFS	N/A	PJFS722525	Ham incl. handle	132
A722525FGFS3PT	N/A	PJFS722525		132
A723018FS	N/A	1418X18		43
A723024FS	N/A	1418X24		43
A723024FSDA	N/A	1418XD24		43

Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A7230S0F19	N/A	1418SFX		49
A723612LP	A72P36	1418V12	Ham incl. Panel	33
A723618FS	N/A	1418Y18		43
A723624FS	N/A	1418Y24		43
A723624FSDA	N/A	1418YD24		43
A723630FS	N/A	1418Y30		43
A723636FS	N/A	1418Y36		43
A723636FSDA	N/A	1418YD36		43
A7236S0F19	N/A	1418SFY		49
A724818FSD	N/A	1418ZW18		47
A724824FSD	N/A	1418ZW24		47
A724824FSDAD	N/A	1418ZWD24		47
A724925FG	N/A	PJFS724925DD	Ham incl. handle	132
A724925FG3PT	N/A	PJFS724925DD		132
A724925FGFS3PT	N/A	PJFS724925DD		132
A726010ULP	A72P60	1422E10F	Ham incl. Panel	39
A726012ULP	A72P60	1422E12F	Ham incl. Panel	39
A726016ULP	A72P60	1422E16F	Ham incl. Panel	39
A726018FSD	N/A	1418ZX18		47
A726020ULP	A72P60	1422E20F	Ham incl. Panel	39
A726024FSD	N/A	1418ZX24		47
A726024FSDAD	N/A	1418ZXD24		47
A726024ULP	A72P60	1422E24F	Ham incl. Panel	39
A726036FSD	N/A	1418ZX36		47
A726036FSDAD	N/A	1418ZXD36		47
A727210ULP	A72P72	1422F10F	Ham incl. Panel	39
A727212ULP	A72P72	1422F12F	Ham incl. Panel	39
A727216ULP	A72P72	1422F16F	Ham incl. Panel	39
A727218FSD	N/A	1418ZY18		47
A727220ULP	A72P72	1422F20F	Ham incl. Panel	39
A727224FSD	N/A	1418ZY24		47
A727224FSDAD	N/A	1418ZYD24		47
A727224ULP	A72P72	1422F24F	Ham incl. Panel	39
A72CPX7212LPFTC	A72P72	2UDCP727312FFTC	Ham incl. Panel	187
A72CPX7218LPFTC	A72P72	2UDCP727318FFTC	Ham incl. Panel	187
A72FSCPS	N/A	1418ZCS		48
A72H2518FS	N/A	1418N4W18		45
A72H2518SS6FS	N/A	1418N4S16W18		93
A72H2518SSFS	N/A	1418N4SSW18		91
A72H3124FS	N/A	1418N4X24		45
A72H3124SS6FS	N/A	1418N4S16X24		93
A72H3124SSFS	N/A	1418N4SSX24		91
A72H3724FS	N/A	1418N4Y24		45
A72H3724SS6FS	N/A	1418N4S16Y24		93
A72H3724SSFS	N/A	1418N4SSY24		91
A72P24F1	N/A	72WFW		48
A72P24F2	N/A	72WHW		48
A72P30F1	N/A	72XFW		48
A72P30F2	N/A	72XHW		48
A72P36	N/A	18P6933		433
A72P36F1	N/A	72YFW		48
A72P36F2	N/A	72YHW		48
A72P48F1	N/A	72ZWFW		48
A72P48F2	N/A	72ZWHW		48
A72P60	N/A	22P6856		434
A72P60F1	N/A	72ZXFW		48
A72P60F2	N/A	72ZXHW		48
A72P72	N/A	22P6868		434
A72P72F1	N/A	72ZYFW		48
A72P72F2	N/A	72ZYHW		48
A72RP24F5	N/A	1418WFHP		49
A72RP24F6	N/A	1418WHHP		49
A72RP30F5	N/A	1418XFHP		49
A72RP30F6	N/A	1418XHHP		49
A72SMP14	N/A	72FD14		48
A72SMP20	N/A	72FD20		48
A72X6112LPFTC	A72P60	2UD726212FFTC	Ham incl. Panel	185
A72X6118LPFTC	A72P60	2UD726218FFTC	Ham incl. Panel	185
A72X7312LPFTC	A72P72	2UD727412FFTC	Ham incl. Panel	185
A72X7312LPFTC	A72P72	2UD727412FFTC	Ham incl. Panel	185
A72X7312LPFTC	A72P72	2UD727412FTC	Ham incl. Panel	183
A72X7318LPFTC	A72P72	2UD727418FFTC	Ham incl. Panel	185

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Hoffman to Hammond Cross Reference

Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
A72X7318LPFTC	A72P72	2UD727418FFTC	Ham incl. Panel	185
A72X7324LPFTC	A72P72	2UD727424FFTC	Ham incl. Panel	185
A72X7324LPFTC	A72P72	2UD727424FFTC	Ham incl. Panel	185
A72XM2818FTC	N/A	1UHD722918FTC	Ham incl. Panel	201
A72XM3418FTC	N/A	1UHD723518FTC	Ham incl. Panel	201
A72XM3EQ18FTC	N/A	3UHD7210118FTC	Ham incl. Panel	203
A72XM3EW18FTC	N/A	3UHD7211918FTC	Ham incl. Panel	203
A72XM4018FTC	N/A	1UHD724118FTC	Ham incl. Panel	201
A72XM5418FTC	N/A	2UHD725518FTC	Ham incl. Panel	202
A72XM6618FTC	N/A	2UHD726718FTC	Ham incl. Panel	202
A72XM7818FTC	N/A	2UHD727918FTC	Ham incl. Panel	202
A72XM7824FTC	N/A	2UHD727924FTC	Ham incl. Panel	202
A74H6012SS6LP	A72P60	1422N4S16E12F	Ham incl. Panel	89
A74H6012SSLP	A72P60	1422N4SSE12F	Ham incl. Panel	87
A74H60DULP	A72P60	1422N4E12F	Ham incl. Panel	41
A74H7212SS6LP	A72P72	1422N4S16F12F	Ham incl. Panel	89
A74H7212SSLP	A72P72	1422N4SSF12F	Ham incl. Panel	87
A74H7224SS6LP	A72P72	1422N4S16F24F	Ham incl. Panel	89
A74H7224SSLP	A72P72	1422N4SSF24F	Ham incl. Panel	87
A74H72DULP	A72P72	1422N4F12F	Ham incl. Panel	41
A74H72JULP	A72P72	1422N4F24F	Ham incl. Panel	41
A8064CHNFSS	A8P6	1414N4PHSSG4	Ham incl. Panel	65
A8064CHNFSS6	A8P6	1414N4PHS16G	Ham incl. Panel	67
A8064NFSS	A8P6	1414N4SSG	Ham incl. Panel	69
A8066CH	A8P6	1414PHG6	Ham incl. Panel	9
A8066CHFL	A8P6	EJ866	Ham incl. Panel	3
A806CH	A8P6	1414PHG	Ham incl. Panel	9
A806CH	A8P6	1414PHG	Ham incl. Panel	9
A806CHFL	A8P6	EJ863	Ham incl. Panel	3
A806CHNF	A8P6	1414N4PHG	Ham incl. Panel	11
A806LP	A8P6	1414G	Ham incl. Panel	5
A806NF	A8P6	1414N4G	Ham incl. Panel	7
A806NFAL	A8P6	1414N4ALG	Ham incl. Panel	55
A806SC	A8P6	1414SCG	Ham incl. Panel	13
A808CH	A8P8	1414PHH4	Ham incl. Panel	9
A808CHFL	A8P8	EJ884	Ham incl. Panel	3
A84XM3EW18FTC	N/A	3UHD8411918FTC	Ham incl. Panel	203
A84XM4018FTC	N/A	1UHD844118FTC	Ham incl. Panel	201
A84XM4EW18FTC	N/A	4UHD8415718FTC	Ham incl. Panel	204
A84XM5EW18FTC	N/A	5UHD8419518FTC	Ham incl. Panel	205
A84XM7818FTC	N/A	2UHD847918FTC	Ham incl. Panel	202
A864CHQRFG	N/A	PJU864L	Also PJ (PJU shown)	120
A864CHQRFGW	N/A	PJU864LW	Also PJ (PJU shown)	128
A864CHSCFG	N/A	PJU864H	Also PJ (PJU shown)	126
A864CHSCFGW	N/A	PJU864HW	Also PJ (PJU shown)	128
A86M3E	incl.	1422MD3	Ham incl. Panel	50
A86M4E	incl.	1422MD4	Ham incl. Panel	50
A86M5E	incl.	1422MD5	Ham incl. Panel	50
A8JS	N/A	14S8		436
A8JTMA	N/A	14B8		436
A8N64	A8N6P	N1J864	Ham incl. Panel	363
A8N6P	N/A	N1JP86		NIC
A8N84	A8N8P	N1J884	Ham incl. Panel	363
A8N86	A8N8P	N1J886	Ham incl. Panel	363
A8N8P	N/A	N1JP88		NIC
A8P6	N/A	14R0705		433
A8P6AL	N/A	14A0705		433
A8P6C	N/A	14F0705		129
A8P6G	N/A	14G0705		433
A8P8	N/A	14R0707		433
A8P8G	N/A	14G0707		433
A8R64	N/A	C3R864SC		375
A8R64HCLO	N/A	C3R864HCLO		382
A8R64HCR	N/A	C3R864HCR		379
A8R84	N/A	C3R884SC		375
A8R86	N/A	C3R886SC		375
A8R86HCLO	N/A	C3R886HCLO		382
A8R86HCR	N/A	C3R886HCR		379
A8R88	N/A	C3R888SC		375
A902420FS	N/A	1418YW20		43
A903620FS	N/A	1418YY20		43
A903624FS	N/A	1418YY24		43
A903624FSDA	N/A	1418YYD24		43
A903636FS	N/A	1418YY36		43
A903636FSDA	N/A	1418YYD36		43
A9036S0F19	N/A	1418SFYY		49
A904820FSD	N/A	1418BW20		47
A907220FSD	N/A	1418BY20		47
A907224FSD	N/A	1418BY24		47
A907224FSDAD	N/A	1418BYD24		47
A907236FSD	N/A	1418BY36		47
A90FSCPS	N/A	1418BCS		48
A90P24F1	N/A	90YWFW		48
A90P24F2	N/A	90YWHW		48
A90P36F1	N/A	90YFW		48
A90P36F2	N/A	90YHW		48
A90P48F1	N/A	90BWFW		48
A90P48F2	N/A	90BWHW		48
A90P72F1	N/A	90BYFW		48
A90P72F2	N/A	90BYHW		48
A90RP24F5	N/A	1418YYFHP		49
A90RP24F6	N/A	1418YYHHP		49
A90SMP14	N/A	90FD14		48
A90SMP20	N/A	90FD20		48
A90XM3EW24FTC	N/A	3UHD9011924FTC		203
A90XM4020FTC	N/A	1UHD904120FTC		201
A90XM4024FTC	N/A	1UHD904124FTC		201
A90XM7820FTC	N/A	2UHD907920FTC		202
A90XM7824FTC	N/A	2UHD907924FTC		202
ACLSN12	N/A	1427LKN4		428
ADB275	N/A	HB3250A		407
ADK12A	N/A	1481S12K		447
ADK16A	N/A	1481S16K		447
ADK20A	N/A	1481S20K		447
ADK24A	N/A	1481S24K		447
ADK30A	N/A	1481S30K		447
ADK36A	N/A	1481S36K		447
ADK42A	N/A	1481S42K		447
ADK48A	N/A	1481S48K		447
ADK60A	N/A	1481S60K		447
ADK72A	N/A	1481S72K		447
ADP1	N/A	PKT66		451
ADP2	N/A	PKT1212		451
ADSTOPK	N/A	DSTOPK		447
AENST	N/A	1481ES		451
AEXGR10	N/A	XFG10		413
AEXGR4	N/A	XFG4		413
AEXGR6	N/A	XFG6		413
AFK0608	N/A	1481FA8K		448
AFK0610	N/A	1481FA10K		448
AFK0612	N/A	1481FA12K		448
AFK0618	N/A	1481FA18K		448
AFK1208	N/A	1481FC8K		448
AFK1208SS	N/A	1481FC8KSS		448
AFK1210	N/A	1481FC10K		448
AFK1210SS	N/A	1481FC10KSS		448
AFK1212	N/A	1481FC12K		448
AFK1212SS	N/A	1481FC12KSS		448
AFK1216	N/A	1481FC16K		448
AFK1216SS	N/A	1481FC16KSS		448
AFK1218	N/A	1481FC18K		448
AFK1220	N/A	1481FC20K		448
AFK1808	N/A	1481FG8K		448
AFK1810	N/A	1481FG10K		448
AFK1812	N/A	1481FG12K		448
AFK1816	N/A	1481FG16K		448
AFK2408	N/A	1481FK8K		448
AFK2410	N/A	1481FK10K		448
AFK2410SS	N/A	1481FK10KSS		448
AFK2412	N/A	1481FK12K		448
AFK2412SS	N/A	1481FK12KSS		448
AFK2416	N/A	1481FK16K		448
AFLTAD	N/A	1475Q		413
AGP1218	N/A	GP134		441

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
AGP1218	N/A	GP134GY		441
AGP1618	N/A	GP136		441
AGP1618	N/A	GP136GY		441
AGP618	N/A	GP063		441
AGP618	N/A	GP063GY		441
AHE10X10X4	N/A	CHKO10104		346
AHE10X10X6	N/A	CHKO10106		347
AHE10X8X4	N/A	CHKO1084		346
AHE10X8X6	N/A	CHKO1086		346
AHE12X10X4	N/A	CHKO12104		346
AHE12X10X6	N/A	CHKO12106		347
AHE12X12X4	N/A	CHKO12124		346
AHE12X12X6	N/A	CHKO12126		347
AHE12X8X4	N/A	CHKO1284		346
AHE16X12X4	N/A	CHKO16124		346
AHE16X12X6	N/A	CHKO16126		347
AHE16X16X6	N/A	CHKO16166		347
AHE18X12X4	N/A	CHKO18124		346
AHE18X12X6	N/A	CHKO18126		347
AHE18X18X6	N/A	CHKO18186		347
AHE24X18X6	N/A	CHKO24186		347
AHE24X24X6	N/A	CHKO24246		347
AHE30X24X6	N/A	CHKO30246		347
AHE36X24X6	N/A	CHKO36246		347
AHE36X24X8	N/A	CHKO36248		347
AHE6X4X4	N/A	CHKO644		346
AHE6X6X4	N/A	CHKO664		346
AHE6X6X6	N/A	CHKO666		346
AHE8X6X4	N/A	CHKO864		346
AHE8X8X4	N/A	CHKO884		346
AHE8X8X6	N/A	CHKO886		346
AJCDFK	N/A	SPB1		435
AL12AR	N/A	N1JLK		428
AL12B	N/A	1427LKN1		428
AL1A	N/A	PHK1		428
AL1CR	N/A	PHK2		428
AL1DR	N/A	PHK3		428
AL2A	N/A	AHKL1		428
AL2CR	N/A	AHKL2		428
AL2DR	N/A	AHKL3		428
AL31	N/A	2QTR		431
AL31BK	N/A	2SLI		431
AL32BK	N/A	2SQI7		431
AL32Y	N/A	2SQK7		431
AL35BK	N/A	2TRI7		431
AL35Y	N/A	2TRK7		431
AL3A	N/A	AHK1		428
AL3CR	N/A	AHK2		428
AL3DR	N/A	AHK3		428
ALF16M18R	N/A	FLK18T8	Functional Cross	447
ALF16M24R	N/A	FLK48T8	Functional Cross	447
ALF25M18R	N/A	FLK24T8	Functional Cross	447
ALFSWD	N/A	FLKDS		447
AMC271310R	N/A	CMC271310		358
AMC302010R	N/A	CMC302010		358
AMC303010HQ	N/A	CMCQ303010		360
AMC303010R	N/A	CMC303010		358
AMC363612HQ	N/A	CMCQ363612		360
AMC363612R	N/A	CMC363612		358
AMC484812HQ	N/A	CMCQ484812		360
AMC484812R	N/A	CMC484812		358
AMFK3RL014	N/A	C3RHCLOMFK2		382
AMFK3RL016	N/A	C3RHCLOMFK1		382
AMOD723918FTC	N/A	UHDM724118SFTC	Ham incl. Panel	220
AMOD727718FTC	N/A	UHDM727818SFTC	Ham incl. Panel	220
AMOD72EPT	N/A	UHDM7218ECA		223
AMOD72FTPT	N/A	UHDM7218BPA		223
AMOD72X4018FTC	N/A	UHDM724118MFTC	Ham incl. Panel	219
AMOD72X7818FTC	N/A	UHDM727918MFTC	Ham incl. Panel	219
AMOD8424EPT	N/A	UHDM8424ECA		223
AMOD8424FTPT	N/A	UHDM8424BPA		223
AMOD843918FTC	N/A	UHDM844118SFTC	Ham incl. Panel	220
AMOD843924FTC	N/A	UHDM844124SFTC	Ham incl. Panel	220
AMOD847718FTC	N/A	UHDM847818SFTC	Ham incl. Panel	220
AMOD847724FTC	N/A	UHDM847824SFTC	Ham incl. Panel	220
AMOD84EPT	N/A	UHDM8418ECA		223
AMOD84FTPT	N/A	UHDM8418BPA		223
AMOD84X4018FTC	N/A	UHDM844118MFTC	Ham incl. Panel	219
AMOD84X4024FTC	N/A	UHDM844124MFTC	Ham incl. Panel	219
AMOD84X7818FTC	N/A	UHDM847918MFTC	Ham incl. Panel	219
AMOD84X7824FTC	N/A	UHDM847924MFTC	Ham incl. Panel	219
ANADFK	N/A	SPB2		435
APA10AXFN	N/A	XF10115		413
APA10AXFN2	N/A	XF10230		413
APA4AXFN	N/A	XF4115		413
APA4AXFN2	N/A	XF4230		413
APA6AXFN	N/A	XF6115		413
APA6AXFN2	N/A	XF6230		413
APLH	N/A	1481H		451
APLKJIC	N/A	EJPA		432
APLKJIC	N/A	EPA		431
APMK3RL014	N/A	C3RHCLOPK2		382
APMK3RL016	N/A	C3RHCLOPK1		382
APRM196RC6C	N/A	1583H6A1		438
APWK133NF	N/A	1481WN41303		444
APWK138NF	N/A	1481WN41308		444
APWK138NFSS	N/A	1481WN4SS1308		444
APWK1711NF	N/A	1481WN41711		444
APWK1711NFSS	N/A	1481WN4SS1711		444
APWK175NF	N/A	1481WN41705		444
APWK2315NF	N/A	1481WN42315		444
APWK2315NFSS	N/A	1481WN4SS2315		444
APWK2919NF	N/A	1481WN42919		444
APWK2919NFSS	N/A	1481WN4SS2919		444
APWK3523NF	N/A	1481WN43523		444
APWK53NF	N/A	1481WN40503		444
APWK53NFSS	N/A	1481WN4SS0503		444
APWK95NF	N/A	1481WN40905		444
APWK95NFSS	N/A	1481WN4SS0905		444
APWKE133	N/A	1481WFL133		444
APWKE52	N/A	1481WFL52		444
APWKE96	N/A	1481WFL96		444
AS075SS	N/A	HP75SS		432
AS100	N/A	HP100		432
AS100SS	N/A	HP100SS		432
AS125	N/A	HP125		432
AS125SS	N/A	HP125SS		432
AS150	N/A	HP150		432
AS150SS	N/A	HP150SS		432
AS200	N/A	HP200		432
AS200SS	N/A	HP200SS		432
AS250	N/A	HP250		432
AS300	N/A	HP300		432
AS350	N/A	HP350		432
AS400	N/A	HP400		432
ASAHPDF	N/A	PHKL1		428
ASB123R	N/A	CSB103		348
ASB124R	N/A	CSB104		348
ASB223R	N/A	CSB203		348
ASB224R	N/A	CSB204		348
ASB403R	N/A	CSB403		348
ASB404R	N/A	CSB404		348
ASB83R	N/A	CSB73		348
ASB84R	N/A	CSB74		348
ASBB125	N/A	CSBL125B		356
ASBB225	N/A	CSBL225		356
ASBB400	N/A	CSBL400		356
ASE10X10X4	N/A	CSKO10104		342
ASE10X10X4NK	N/A	CS10104		344
ASE10X10X6	N/A	CSKO10106		343
ASE10X10X6NK	N/A	CS10106		345
ASE10X8X4	N/A	CSKO1084		342
ASE10X8X4NK	N/A	CS1084		344
ASE10X8X6	N/A	CSKO1086		343

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ASE10X8X6NK	N/A	CS1086		345
ASE12X10X4	N/A	CSKO12104		342
ASE12X10X4NK	N/A	CS12104		344
ASE12X10X6	N/A	CSKO12106		343
ASE12X10X6NK	N/A	CS12106		345
ASE12X12X4	N/A	CSKO12124		342
ASE12X12X4NK	N/A	CS12124		344
ASE12X12X6	N/A	CSKO12126		343
ASE12X12X6NK	N/A	CS12126		345
ASE12X12X8	N/A	CSKO12128		343
ASE12X12X8NK	N/A	CS12128		345
ASE12X8X4	N/A	CSKO1284		342
ASE12X8X4NK	N/A	CS1284		344
ASE16X12X4	N/A	CSKO16124		342
ASE16X12X4NK	N/A	CS16124		344
ASE16X12X6	N/A	CSKO16126		343
ASE16X12X6NK	N/A	CS16126		345
ASE16X14X3	N/A	CSKO16143		342
ASE16X14X3NK	N/A	CS16143		344
ASE16X16X6	N/A	CSKO16166		343
ASE16X16X6NK	N/A	CS16166		345
ASE18X12X4	N/A	CSKO18124		342
ASE18X12X4NK	N/A	CS18124		344
ASE18X12X6	N/A	CSKO18126		343
ASE18X12X6NK	N/A	CS18126		345
ASE18X14X3	N/A	CSKO18143		342
ASE18X14X3NK	N/A	CS18143		344
ASE18X18X4	N/A	CSKO18184		342
ASE18X18X4NK	N/A	CS18184		344
ASE18X18X6	N/A	CSKO18186		343
ASE18X18X6NK	N/A	CS18186		345
ASE18X18X8NK	N/A	CS18188		345
ASE20X14X3	N/A	CSKO20143		342
ASE20X14X3NK	N/A	CS20143		344
ASE24X18X6	N/A	CSKO24186		343
ASE24X18X6NK	N/A	CS24186		345
ASE24X24X10NK	N/A	CS242410		345
ASE24X24X4	N/A	CSKO24244		342
ASE24X24X4NK	N/A	CS24244		344
ASE24X24X6	N/A	CSKO24246		343
ASE24X24X6NK	N/A	CS24246		345
ASE24X24X8NK	N/A	CS24248		345
ASE30X24X6	N/A	CSKO30246		343
ASE30X24X6NK	N/A	CS30246		345
ASE36X24X10NK	N/A	CS362410		345
ASE36X24X6	N/A	CSKO36246		343
ASE36X24X6NK	N/A	CS36246		345
ASE36X24X8NK	N/A	CS36248		345
ASE36X36X12NK	N/A	CS363612		345
ASE36X36X6NK	N/A	CS36366		345
ASE4X4X3	N/A	CSKO443		342
ASE4X4X3NK	N/A	CS443		344
ASE4X4X4	N/A	CSKO444		342
ASE4X4X4NK	N/A	CS444		344
ASE6X4X4	N/A	CSKO644		342
ASE6X4X4NK	N/A	CS644		344
ASE6X6X3	N/A	CSKO663		342
ASE6X6X3NK	N/A	CS663		344
ASE6X6X4	N/A	CSKO664		342
ASE6X6X4NK	N/A	CS664		344
ASE6X6X6	N/A	CSKO666		343
ASE6X6X6NK	N/A	CS666		344
ASE8X6X3	N/A	CSKO863		342
ASE8X6X3NK	N/A	CS863		344
ASE8X6X4	N/A	CSKO864		342
ASE8X6X4NK	N/A	CS864		344
ASE8X8X4	N/A	CSKO884		342
ASE8X8X4NK	N/A	CS884		344
ASE8X8X6	N/A	CSKO886		343
ASE8X8X6NK	N/A	CS886		344
ASPB	N/A	HPB		432
ASPBG	N/A	HP22		432
ASPBGSS	N/A	HP22SS		432
ASPBSS	N/A	HPBSS		432
AST2123R	N/A	CST2103		352
AST2124R	N/A	CST2104		352
AST283R	N/A	CST273		352
AST284R	N/A	CST274		352
AST3123R	N/A	CST3103		352
AST3124R	N/A	CST3104		352
AST3223R	N/A	CST3203		352
AST3224R	N/A	CST3204		352
AST383R	N/A	CST373		352
AST384R	N/A	CST374		352
AST4123R	N/A	CST4103		352
AST4124R	N/A	CST4104		352
AST4223R	N/A	CST4203		352
AST4224R	N/A	CST4204		352
AST4403R	N/A	CST3403		352
AST4403R	N/A	CST4403		352
AST4404R	N/A	CST4404		352
AST4603R	N/A	CST4603		352
AST4604R	N/A	CST4604		352
AST483R	N/A	CST473		352
AST484R	N/A	CST474		352
AST5223R	N/A	CST5203		352
AST5224R	N/A	CST5204		352
AST5403R	N/A	CST5403		352
AST5404R	N/A	CST5404		352
AST5603R	N/A	CST5603		352
AST5604R	N/A	CST5604		352
AST6223R	N/A	CST6203		352
AST6224R	N/A	CST6204		352
AST6403R	N/A	CST6403		352
AST6404R	N/A	CST6404		352
AST6603R	N/A	CST6603		352
AST6604R	N/A	CST6604		352
ASTB125	N/A	CSBL125T		356
ATEMNC	N/A	SKT011409NC		421
ATEMNO	N/A	SKT011419NO		421
ATPB7021	N/A	1413BKS		450
ATPBG7032	N/A	1413CGRALS		450
ATPGRAYX	N/A	1413LRS		450
ATPHS61	N/A	1413LRS		450
ATPWE	N/A	1413NS		450
AVK44	N/A	1481L44		450
AVK66	N/A	1481L66		450
AVK88	N/A	1481L88		450
AWDH1418N4	N/A	1481WDH1418		445
AWDH1418N4SS	N/A	1481WSSDH1418		445
AWDH1612N4	N/A	1481WDH1612		445
AWDH1612N4SS	N/A	1481WSSDH1612		445
AWDH2016N4	N/A	1481WDH2016		445
AWDH2016N4SS	N/A	1481WSSDH2016		445
AWDH2416N4	N/A	1481WDH2416		445
AWDH2416N4SS	N/A	1481WSSDH2416		445
AWDH2420N4	N/A	1481WDH2420		445
AWDH2420N4SS	N/A	1481WSSDH2420		445
AWDH2430N4	N/A	1481WDH2430		445
AWDH2430N4SS	N/A	1481WSSDH2430		445
AWDH3024N4	N/A	1481WDH3024		445
AWDH3024N4SS	N/A	1481WSSDH3024		445
AWDH3624N4	N/A	1481WDH3624		445
AWDH3624N4SS	N/A	1481WSSDH3624		445
C1224B	N/A	1472-24		283
C1224T	N/A	1472-24T		283
C1224W	N/A	1472-24W		283
C1248BD	N/A	1472-48		283
C1248T	N/A	1472-48T		283
C1248W	N/A	1472-48W		283
C12B	N/A	1472-36		283
C12C12	N/A	1488HH9		279
C12C16	N/A	1488HJ9		279
C12C20	N/A	1488HL9		279

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
C12C24	N/A	1488HN9		279
C12T	N/A	1472-36T		283
C12W	N/A	1472-36W		283
C16C16	N/A	1488JJ11		279
C16C20	N/A	1488JL11		279
C16C24	N/A	1488JN11		279
C16C30	N/A	1488JQ11		279
C16C36	N/A	1488JS11		279
C20C20	N/A	1488LL13		279
C20C24	N/A	1488LN13		279
C20C30	N/A	1488LQ13		279
C8C12	N/A	1488EH7		279
C8C16	N/A	1488EJ7		279
C8C20	N/A	1488EL7		279
C8C8	N/A	1488EE7		279
C924B	A30P20	1471C24	Ham incl. Panel	279
C936B	A30P20	1471C36	Ham incl. Panel	279
CCA12128	N/A	R100-100-000		59
CCA1286	N/A	R100-062-000		59
CCA16169	N/A	R100-160-000		59
CCA202311	N/A	R100-200-000		59
CCP313613	N/A	ECP12126	Ham handle sep.	285
CCP313613	N/A	ECP12168	Ham handle sep.	285
CCP404515	N/A	ECP161610	Ham handle sep.	285
CCP555715	N/A	ECP162010	Ham handle sep.	285
CCP555730	N/A	ECP202412	Ham handle sep.	285
CCS2EHDLG	N/A	R149-020-000	Functional Cross	288
CCS2EHDLG	N/A	R149-020-000	Functional Cross	288
CCS2ESTLG	N/A	R149-035-001	Functional Cross	288
CCS2FCLG	N/A	R149-025-000	Functional Cross	287
CCS2FECLG	N/A	R149-035-000	Functional Cross	287
CCS2IJLG	N/A	R149-015-000	Functional Cross	291
CCS2RBLG	N/A	R149-005-001	Functional Cross	290
CCS2SJLG	N/A	R149-005-000	Functional Cross	290
CCS2STLG	N/A	R149-025-001	Functional Cross	287
CCS2T10	N/A	R144-301-000	Functional Cross	286
CCS2T10	N/A	R144-301-000	Functional Cross	286
CCS2WFBLG	N/A	R149-030-000	Functional Cross	289
CCS2WFBLG	N/A	R149-030-000	Functional Cross	289
CCS2WJHLG	N/A	R149-010-000	Functional Cross	291
CCS2WJVLG	N/A	R149-010-001	Functional Cross	291
CCS568AA30LG	N/A	R140-045-000R	Functional Cross	297
CCS5BBLG	N/A	R147-030-000R	Functional Cross	297
CCS5ELLG	N/A	R147-020-000R	Functional Cross	295
CCS5FCLG	N/A	R147-025-000R	Functional Cross	294
CCS5FECLG	N/A	R147-035-000R	Functional Cross	294
CCS5IJRLG	N/A	R147-015-000R	Functional Cross	295
CCS5SJLG	N/A	R147-005-000R	Functional Cross	296
CCS5T10	N/A	R144-021-000R	Functional Cross	293
CCS5T20	N/A	R144-022-000R	Functional Cross	293
CCS5WJRLG	N/A	R147-010-000R	Functional Cross	296
CCS8BBLG	N/A	R147-030-200R	Functional Cross	297
CCS8ELLG	N/A	R147-020-200R	Functional Cross	295
CCS8FCLG	N/A	R147-025-200R	Functional Cross	294
CCS8FECLG	N/A	R147-035-200R	Functional Cross	294
CCS8IJRLG	N/A	R147-015-200R	Functional Cross	295
CCS8SJLG	N/A	R147-005-200R	Functional Cross	296
CCS8T10	N/A	R144-041-000R	Functional Cross	293
CCS8T20	N/A	R144-042-000R	Functional Cross	293
CCS8WJRLG	N/A	R147-010-200R	Functional Cross	296
CDR1P12	N/A	2D1K12		271
CDR1P16	N/A	2D1K16		29
CDR1P20	N/A	2D1K20		29
CDR1P24	N/A	2D1K24		29
CDR3P12	N/A	2D2K12		29
CDR3P16	N/A	2D2K16		29
CDR3P20	N/A	2D2K20		29
CDR3P24	N/A	2D2K24		29
CDRCP12	N/A	2DCK12		29
CDRCP16	N/A	2DCK16		29
CDRCP20	N/A	2DCK20		29
CDRCP24	N/A	2DCK24		29

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CDSC20228	N/A	EN4DSC20228GY		159
CDSC24228	N/A	EN4DSC24228GY		159
CDSC24268	N/A	EN4DSC24268GY		159
CDSC30268	N/A	EN4DSC30268GY		159
CDSC36268	N/A	EN4DSC36268GY		159
CDSC36328	N/A	EN4DSC36328GY		159
CDSC36328SS6R	N/A	EN4DSC36328S16		167
CDSC36328SSR	N/A	EN4DSC36328SS		163
CDSC423212	N/A	EN4DSC423212GY		159
CDSC423212SS6R	N/A	EN4DSC423212S16		167
CDSC423212SSR	N/A	EN4DSC423212SS		163
CDSC423812	N/A	EN4DSC423812GY		159
CDSC423812SS6R	N/A	EN4DSC423812S16		167
CDSC423812SSR	N/A	EN4DSC423812SS		163
CDSC483812	N/A	EN4DSC483812GY		159
CDSC483812SS6R	N/A	EN4DSC483812S16		167
CDSC483812SSR	N/A	EN4DSC483812SS		163
CDSC603812	N/A	EN4DSC603812GY		159
CDSC603812SS6R	N/A	EN4DSC603812S16		167
CDSC603812SSR	N/A	EN4DSC603812SS		163
CFC382416	N/A	2CRC2024		259
CFC383616	N/A	2CRC2036		259
CFC384816	N/A	2CRC2048		259
CFC386016	N/A	2CRC2060		259
CHDL31	N/A	ECPH12		285
CHDL31	N/A	ECPH12		285
CHDL40	N/A	ECPH20		285
CHDL55	N/A	ECPH24		285
CMFK	N/A	EZPMF		30
CMFKSS	N/A	ESSMF		30
CP1212	N/A	EP1212		434
CP1212G	N/A	EPG1212		434
CP1612	N/A	EP1612		434
CP1612G	N/A	EPG1612		434
CP1616	N/A	EP1616		434
CP1616G	N/A	EPG1616		434
CP1620	N/A	EP1620		434
CP2016	N/A	EP2016		434
CP2016G	N/A	EPG2016		434
CP2020	N/A	EP2020		434
CP2024	N/A	EP2024		434
CP2416	N/A	EP2416		434
CP2416G	N/A	EPG2416		434
CP2420	N/A	EP2420		434
CP2420G	N/A	EPG2420		434
CP2424	N/A	EP2424		434
CP2424G	N/A	EPG2424		434
CP2430	N/A	EP2430		434
CP2442	N/A	EP2442		434
CP3020	N/A	EP3020		434
CP3024	N/A	EP3024		434
CP3024G	N/A	EPG3024		434
CP3030	N/A	EP3030		434
CP3048	N/A	EP3048		434
CP3060	N/A	EP3060		434
CP3624	N/A	EP3624		434
CP3624G	N/A	EPG3624		434
CP3630	N/A	EP3630		434
CP3630G	N/A	EPG3630		434
CP3636	N/A	EP3636		434
CP3648	N/A	EP3648		434
CP3660	N/A	EP3660		434
CP4236	N/A	EP4236		434
CP4824	N/A	EP4824		434
CP4836	N/A	EP4836		434
CP6036	N/A	EP6036		434
CR290216G013	N/A	DTS2000A115N4SS	Functional Cross	NIC
CR290226G010	N/A	DTS2000A230N4SS	Functional Cross	NIC
CR290416G068	N/A	DTS3181A115N4SS	Functional Cross	404
CR290426G054	N/A	DTS3181A230N4SS	Functional Cross	404
CSD12126	N/A	EN4SD12126GY		20
CSD12126LG	N/A	EN4SD12126LG		20

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CSD12126SS	N/A	EN4SD12126SS		70
CSD12126SS6	N/A	EN4SD12126S16		73
CSD12126ST	N/A	ST12126LG		25
CSD161210	N/A	EN4SD161210GY		20
CSD161210LG	N/A	EN4SD161210LG		20
CSD16126	N/A	EN4SD16126GY		20
CSD16126LG	N/A	EN4SD16126LG		20
CSD16126SS	N/A	EN4SD16126SS		70
CSD16126SS6	N/A	EN4SD16126S16		73
CSD16126ST	N/A	ST16126LG		25
CSD16126W	N/A	EN4SD16126WGY		23
CSD16126WLG	N/A	EN4SD16126WLG		23
CSD16126WSS	N/A	EN4SD16126WSS		75
CSD16128	N/A	EN4SD16128GY		20
CSD16128LG	N/A	EN4SD16128LG		20
CSD16128W	N/A	EN4SD16128WGY		23
CSD16128WLG	N/A	EN4SD16128WLG		23
CSD161610	N/A	EN4SD161610GY		20
CSD161610LG	N/A	EN4SD161610LG		20
CSD16166	N/A	EN4SD16166GY		20
CSD16166LG	N/A	EN4SD16166LG		20
CSD16166SS	N/A	EN4SD16166SS		70
CSD16166SS6	N/A	EN4SD16166S16		73
CSD16168	N/A	EN4SD16168GY		20
CSD16168LG	N/A	EN4SD16168LG		20
CSD16168ST	N/A	ST16168LG		25
CSD162010	N/A	EN4SD162010GY		20
CSD162010LG	N/A	EN4SD162010LG		20
CSD16206	N/A	EN4SD16206GY		20
CSD16206LG	N/A	EN4SD16206LG		20
CSD16208	N/A	EN4SD16208GY		20
CSD16208LG	N/A	EN4SD16208LG		20
CSD16208SS	N/A	EN4SD16208SS		70
CSD16208SS6	N/A	EN4SD16208S16		73
CSD201610	N/A	EN4SD201610GY		20
CSD201610LG	N/A	EN4SD201610LG		20
CSD201610SS	N/A	EN4SD201610SS		71
CSD20166	N/A	EN4SD20166GY		20
CSD20166LG	N/A	EN4SD20166LG		20
CSD20166SS	N/A	EN4SD20166SS		70
CSD20166SS6	N/A	EN4SD20166S16		73
CSD20166ST	N/A	ST20166LG		25
CSD20166W	N/A	EN4SD20166WGY		23
CSD20166WLG	N/A	EN4SD20166WLG		23
CSD20166WSS	N/A	EN4SD20166WSS		75
CSD20168	N/A	EN4SD20168GY		20
CSD20168LG	N/A	EN4SD20168LG		20
CSD20168SS	N/A	EN4SD20168SS		70
CSD20168SS6	N/A	EN4SD20168S16		73
CSD20168ST	N/A	ST20168LG		25
CSD20168W	N/A	EN4SD20168WGY		23
CSD20168WLG	N/A	EN4SD20168WLG		23
CSD20168WSS	N/A	EN4SD20168WSS		75
CSD202010	N/A	EN4SD202010GY		20
CSD202010LG	N/A	EN4SD202010LG		20
CSD202012	N/A	EN4SD202012GY		21
CSD202012LG	N/A	EN4SD202012LG		20
CSD202012W	N/A	EN4SD202012WGY		23
CSD202012WLG	N/A	EN4SD202012WLG		23
CSD20206	N/A	EN4SD20206GY		20
CSD20206LG	N/A	EN4SD20206LG		20
CSD20206SS	N/A	EN4SD20206SS		70
CSD20206SS6	N/A	EN4SD20206S16		73
CSD20206ST	N/A	ST20206LG		25
CSD20206W	N/A	EN4SD20206WGY		23
CSD20206WLG	N/A	EN4SD20206WLG		23
CSD20206WSS	N/A	EN4SD20206WSS		75
CSD20208	N/A	EN4SD20208GY		20
CSD20208LG	N/A	EN4SD20208LG		20
CSD20208SS	N/A	EN4SD20208SS		71
CSD20208SS6	N/A	EN4SD20208S16		73
CSD20208ST	N/A	ST20208LG		25

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CSD20208W	N/A	EN4SD20208WGY		23
CSD20208WLG	N/A	EN4SD20208WLG		23
CSD20208WSS	N/A	EN4SD20208WSS		75
CSD202410	N/A	EN4SD202410GY		20
CSD202410LG	N/A	EN4SD202410LG		20
CSD20248	N/A	EN4SD20248GY		20
CSD20248LG	N/A	EN4SD20248LG		20
CSD241610	N/A	EN4SD241610GY		20
CSD241610LG	N/A	EN4SD241610LG		20
CSD24166	N/A	EN4SD24166GY		20
CSD24166LG	N/A	EN4SD24166LG		20
CSD24168	N/A	EN4SD24168GY		20
CSD24168LG	N/A	EN4SD24168LG		20
CSD24168SS	N/A	EN4SD24168SS		71
CSD24168SS6	N/A	EN4SD24168S16		73
CSD242010	N/A	EN4SD242010GY		21
CSD242010LG	N/A	EN4SD242010LG		20
CSD242010SS	N/A	EN4SD242010SS		71
CSD242012	N/A	EN4SD242012GY		21
CSD242012LG	N/A	EN4SD242012LG		21
CSD242012W	N/A	EN4SD242012WGY		23
CSD242012WLG	N/A	EN4SD242012WLG		23
CSD24206	N/A	EN4SD24206GY		20
CSD24206LG	N/A	EN4SD24206LG		20
CSD24206W	N/A	EN4SD24206WGY		23
CSD24206WLG	N/A	EN4SD24206WLG		23
CSD24208	N/A	EN4SD24208GY		20
CSD24208LG	N/A	EN4SD24208LG		20
CSD24208SS	N/A	EN4SD24208SS		71
CSD24208SS6	N/A	EN4SD24208S16		73
CSD24208ST	N/A	ST24208LG		25
CSD24208W	N/A	EN4SD24208WGY		23
CSD24208WLG	N/A	EN4SD24208WLG		23
CSD24208WSS	N/A	EN4SD24208WSS		75
CSD242410	N/A	EN4SD242410GY		21
CSD242410LG	N/A	EN4SD242410LG		21
CSD242410ST	N/A	ST242410LG		25
CSD242412	N/A	EN4SD242412GY		21
CSD242412LG	N/A	EN4SD242412LG		21
CSD242412SS	N/A	EN4SD242412SS		71
CSD242412ST	N/A	ST242412LG		25
CSD242412W	N/A	EN4SD242412WGY		23
CSD242412WLG	N/A	EN4SD242412WLG		23
CSD242416	N/A	EN4SD242416GY		21
CSD242416LG	N/A	EN4SD242416LG		21
CSD242416W	N/A	EN4SD242416WGY		23
CSD242416WLG	N/A	EN4SD242416WLG		23
CSD242420	N/A	EN4SD242420GY		21
CSD242420LG	N/A	EN4SD242420LG		21
CSD242420W	N/A	EN4SD242420WGY		23
CSD242420WLG	N/A	EN4SD242420WLG		23
CSD24246	N/A	EN4SD24246GY		20
CSD24246LG	N/A	EN4SD24246LG		20
CSD24246W	N/A	EN4SD24246WGY		23
CSD24246WLG	N/A	EN4SD24246WLG		23
CSD24248	N/A	EN4SD24248GY		20
CSD24248LG	N/A	EN4SD24248LG		20
CSD24248SS	N/A	EN4SD24248SS		71
CSD24248SS6	N/A	EN4SD24248S16		73
CSD24248ST	N/A	ST24248LG		25
CSD24248W	N/A	EN4SD24248WGY		23
CSD24248WLG	N/A	EN4SD24248WLG		23
CSD24248WSS	N/A	EN4SD24248WSS		75
CSD243010	N/A	EN4SD243010GY		21
CSD243010LG	N/A	EN4SD243010LG		21
CSD24308	N/A	EN4SD24308GY		20
CSD24308LG	N/A	EN4SD24308LG		20
CSD302010	N/A	EN4SD302010GY		21
CSD302010LG	N/A	EN4SD302010LG		21
CSD30208	N/A	EN4SD30208GY		20
CSD30208LG	N/A	EN4SD30208LG		20
CSD302410	N/A	EN4SD302410GY		21

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CSD302410LG	N/A	EN4SD302410LG		21
CSD302410ST	N/A	ST302410LG		25
CSD302412	N/A	EN4SD302412GY		21
CSD302412LG	N/A	EN4SD302412LG		21
CSD302412SS	N/A	EN4SD302412SS		71
CSD302412SS6	N/A	EN4SD302412S16		73
CSD302412ST	N/A	ST302412LG		25
CSD302412W	N/A	EN4SD302412WGY		23
CSD302412WLG	N/A	EN4SD302412WLG		23
CSD302420	N/A	EN4SD302420GY		21
CSD302420LG	N/A	EN4SD302420LG		21
CSD302420ST	N/A	ST302420LG		25
CSD302420W	N/A	EN4SD302420WGY		23
CSD302420WLG	N/A	EN4SD302420WLG		23
CSD30248	N/A	EN4SD30248GY		20
CSD30248LG	N/A	EN4SD30248LG		20
CSD30248SS	N/A	EN4SD30248SS		71
CSD30248SS6	N/A	EN4SD30248S16		73
CSD30248ST	N/A	ST30248LG		25
CSD30248W	N/A	EN4SD30248WGY		23
CSD30248WLG	N/A	EN4SD30248WLG		23
CSD30248WSS	N/A	EN4SD30248WSS		75
CSD303010	N/A	EN4SD303010GY		21
CSD303010LG	N/A	EN4SD303010LG		21
CSD303012	N/A	EN4SD303012GY		21
CSD303012LG	N/A	EN4SD303012LG		21
CSD30308	N/A	EN4SD30308GY		20
CSD30308LG	N/A	EN4SD30308LG		20
CSD30308SS	N/A	EN4SD30308SS		71
CSD30308SS6	N/A	EN4SD30308S16		73
CSD30308ST	N/A	ST30308LG		25
CSD362410	N/A	EN4SD362410GY		21
CSD362410LG	N/A	EN4SD362410LG		21
CSD362410SS	N/A	EN4SD362410SS		71
CSD362412	N/A	EN4SD362412GY		21
CSD362412LG	N/A	EN4SD362412LG		21
CSD36248	N/A	EN4SD36248GY		20
CSD36248LG	N/A	EN4SD36248LG		20
CSD36248SS6	N/A	EN4SD36248S16		73
CSD363010	N/A	EN4SD363010GY		21
CSD363010LG	N/A	EN4SD363010LG		21
CSD363010SS	N/A	EN4SD363010SS		71
CSD363010ST	N/A	ST363010LG		25
CSD363012	N/A	EN4SD363012GY		21
CSD363012LG	N/A	EN4SD363012LG		21
CSD363012SS	N/A	EN4SD363012SS		71
CSD363012SS6	N/A	EN4SD363012S16		73
CSD363012ST	N/A	ST363012LG		25
CSD363016	N/A	EN4SD363016GY		21
CSD363016LG	N/A	EN4SD363016LG		21
CSD363016ST	N/A	ST363016LG		25
CSD363020	N/A	EN4SD363020GY		20
CSD363020LG	N/A	EN4SD363020LG		21
CSD36308	N/A	EN4SD36308GY		20
CSD36308LG	N/A	EN4SD36308LG		20
CSD36308SS	N/A	EN4SD36308SS		71
CSD36308SS6	N/A	EN4SD36308S16		73
CSD36308ST	N/A	ST36308LG		25
CSD363610	N/A	EN4SD363610GY		21
CSD363610LG	N/A	EN4SD363610LG		21
CSD363612	N/A	EN4SD363612GY		21
CSD363612LG	N/A	EN4SD363612LG		20
CSD363612SS	N/A	EN4SD363612SS		71
CSD363612SS6	N/A	EN4SD363612S16		73
CSD363612ST	N/A	ST363612LG		25
CSD36368	N/A	EN4SD36368GY		20
CSD36368LG	N/A	EN4SD36368LG		20
CSD423610	N/A	EN4SD423610GY		21
CSD423610LG	N/A	EN4SD423610LG		21
CSD423612	N/A	EN4SD423612GY		21
CSD423612LG	N/A	EN4SD423612LG		21
CSD423612SS	N/A	EN4SD423612SS		71
CSD482410	N/A	EN4SD482410GY		21
CSD482410LG	N/A	EN4SD482410LG		21
CSD482412	N/A	EN4SD482412GY		21
CSD482412LG	N/A	EN4SD482412LG		21
CSD483610	N/A	EN4SD483610GY		21
CSD483610LG	N/A	EN4SD483610LG		21
CSD483610ST	N/A	ST483610LG		25
CSD483612	N/A	EN4SD483612GY		21
CSD483612LG	N/A	EN4SD483612LG		21
CSD483612SS	N/A	EN4SD483612SS		71
CSD483612ST	N/A	ST483612LG		25
CSD483616	N/A	EN4SD483616GY		21
CSD483616LG	N/A	EN4SD483616LG		21
CSD483616ST	N/A	ST483616LG		25
CSD603610	N/A	EN4SD603610GY		21
CSD603610	N/A	EN4SD603610GY		21
CSD603610LG	N/A	EN4SD603610LG		21
CSD603612	N/A	EN4SD603612GY		21
CSD603612LG	N/A	EN4SD603612LG		21
CSD603612SS	N/A	EN4SD603612SS		71
CSD603612ST	N/A	ST603612LG		25
CSF2424	N/A	ESF2424		29
CSF3024	N/A	ESF3024		29
CSF3624	N/A	ESF3624		29
CSP1212	N/A	ESP1212		28
CSP1612	N/A	ESP1612		28
CSP1616	N/A	ESP1616		28
CSP1620	N/A	ESP1620		28
CSP2016	N/A	ESP2016		28
CSP2020	N/A	ESP2020		28
CSP2024	N/A	ESP2024		28
CSP2416	N/A	ESP2416		28
CSP2420	N/A	ESP2420		28
CSP2424	N/A	ESP2424		28
CSP3020	N/A	ESP3020		28
CSP3024	N/A	ESP3024		28
CSP3030	N/A	ESP3030		28
CSP3624	N/A	ESP3624		28
CSP3630	N/A	ESP3630		28
CSP3636	N/A	ESP3636		28
CTD24428	N/A	EN4TD24428GY		27
CTD24428LG	N/A	EN4TD24428LG		27
CTD30488	N/A	EN4TD30488GY		27
CTD30488LG	N/A	EN4TD30488LG		27
CTD306012	N/A	EN4TD306012GY		27
CTD306012LG	N/A	EN4TD306012LG		27
CTD364812	N/A	EN4TD364812GY		27
CTD364812LG	N/A	EN4TD364812LG		27
CTD366012	N/A	EN4TD366012GY		27
CTD366012LG	N/A	EN4TD366012LG		27
CWHK	N/A	EHLL		30
CWHPTO	N/A	EHLPL		30
DAH1001A	N/A	FLHTF125A115		420
DAH1002A	N/A	FLHTF125A230		420
DAH101	N/A	SHG14000	Functional Cross	418
DAH2001A	N/A	FLHTF200A115		420
DAH2002A	N/A	FLHTF200A230		420
DAH301	N/A	SHG14001	Functional Cross	418
DAH4001B	N/A	SCR027009	Functional Cross	420
DAH4002B	N/A	FLHTF400A230		420
DAH501	N/A	SHG14005	Functional Cross	418
DAH8001B	N/A	FLHTF800A115		420
DAH8002B	N/A	FLHTF800A230		420
DL36	N/A	2WKL		431
DLDNRMTG12	N/A	2DMK12		29
DLDNRMTG16	N/A	2DMK16		29
DLDNRMTG20	N/A	2DMK20		29
DLDNRMTG24	N/A	2DMK24		29
DLDNRMTG30	N/A	2DMK30		29
DLFR20H	N/A	2FR20		NIC
DLFR24H	N/A	2FR24		NIC
DLFR30H	N/A	2FR30		NIC

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
DLFR36H	N/A	2FR36		NIC
DLGP610	N/A	GP216		441
DLGP610	N/A	GP216GY		441
DMCKC	N/A	1425B		450
E10PBA	N/A	1490G10		311
E10PBAM	N/A	1490MG10		311
E12PB	N/A	1435O		301
E12PBA	N/A	1490G12		311
E12PBAM	N/A	1490MG12		311
E12PBG	N/A	1435MO		301
E12PBGSS	N/A	1435MSSO		303
E12PBGXM	N/A	MPB12		299
E12PBSS	N/A	1435SSO		303
E12PBSS6	N/A	1435S16O		303
E12PBX	N/A	1437O		305
E12PBXM	N/A	1437MO		305
E12PBY25	N/A	1489P12		309
E12PBY25M	N/A	1489MP12		309
E12SPBA	N/A	1490J12		311
E12SPBAM	N/A	1490MJ12		311
E16PB	N/A	1435S		301
E16PBA	N/A	1490J16		311
E16PBAM	N/A	1490MJ16		311
E16PBG	N/A	1435MS		301
E16PBX	N/A	1437S		305
E16PBXM	N/A	1437MS		305
E16PBXSS	N/A	1437SSS		307
E16PBXSS6	N/A	1437S16S		307
E16PBY25	N/A	1489P16		309
E16PBY25M	N/A	1489MP16		309
E16SPBAH	N/A	1490G16		311
E16SPBAHM	N/A	1490MG16		311
E1PB	N/A	1435A		301
E1PBA	N/A	1490D1		311
E1PBAM	N/A	1490MD1		311
E1PBG	N/A	1435MA		301
E1PBGSS	N/A	1435MSSA		303
E1PBGXM	N/A	MPB1		299
E1PBSS	N/A	1435SSA		303
E1PBSS6	N/A	1435S16A		303
E1PBX	N/A	1437A		305
E1PBXM	N/A	1437MA		305
E1PBXSS	N/A	1437SSA		307
E20PBA	N/A	1490J20		311
E20PBAM	N/A	1490MJ20		311
E20PBX	N/A	1437V		305
E20PBXM	N/A	1437MV		305
E20PBY25	N/A	1489P20		309
E20PBY25M	N/A	1489MP20		309
E25PBA	N/A	1490K25		311
E25PBAM	N/A	1490MK25		311
E25PBX	N/A	1437X		305
E25PBXM	N/A	1437MX		305
E25PBY25	N/A	1489P25		309
E25PBY25M	N/A	1489MP25		309
E2PB	N/A	1435B		301
E2PBA	N/A	1490D2		311
E2PBAM	N/A	1490MD2		311
E2PBG	N/A	1435MB		301
E2PBGSS	N/A	1435MSSB		303
E2PBGXM	N/A	MPB2		299
E2PBSS	N/A	1435SSB		303
E2PBSS6	N/A	1435S16B		303
E2PBX	N/A	1437B		305
E2PBXM	N/A	1437MB		305
E2PBXSS	N/A	1437SSB		307
E30PBA	N/A	1490K30		311
E30PBAM	N/A	1490MK30		311
E30PBY25	N/A	1489P30		309
E30PBY25M	N/A	1489MP30		309
E36PBY25	N/A	1489P36		309
E36PBY25M	N/A	1489MP36		309
E3PB	N/A	1435C		301
E3PBA	N/A	1490D3		311
E3PBAM	N/A	1490MD3		311
E3PBG	N/A	1435MC		301
E3PBGSS	N/A	1435MSSC		303
E3PBGXM	N/A	MPB3		299
E3PBSS	N/A	1435SSC		303
E3PBSS6	N/A	1435S16C		303
E3PBX	N/A	1437C		305
E3PBXM	N/A	1437MC		305
E3PBXSS	N/A	1437SSC		307
E42PBY25	N/A	1489P42		309
E42PBY25M	N/A	1489MP42		309
E4PB	N/A	1435D		301
E4PBA	N/A	1490D4		311
E4PBAM	N/A	1490MD4		311
E4PBG	N/A	1435MD		301
E4PBGSS	N/A	1435MSSD		303
E4PBGXM	N/A	MPB4		299
E4PBSS	N/A	1435SSD		303
E4PBSS6	N/A	1435S16D		303
E4PBX	N/A	1437D		305
E4PBXM	N/A	1437MD		305
E4PBXSS	N/A	1437SSD		307
E4SPB	N/A	1435F		301
E4SPBA	N/A	1490G4		311
E4SPBAM	N/A	1490MG4		311
E4SPBG	N/A	1435MF		301
E4SPBX	N/A	1437F		305
E4SPBXM	N/A	1437MF		305
E4SPBY25	N/A	1489P4		309
E4SPBY25M	N/A	1489MP4		309
E6PB	N/A	1435H		301
E6PBA	N/A	1490G6		311
E6PBAM	N/A	1490MG6		311
E6PBG	N/A	1435MH		301
E6PBGSS	N/A	1435MSSH		303
E6PBGXM	N/A	MPB6		299
E6PBSS	N/A	1435SSH		303
E6PBSS6	N/A	1435S16H		303
E6PBX	N/A	1437H		305
E6PBXM	N/A	1437MH		305
E6PBY25	N/A	1489P6		309
E6PBY25M	N/A	1489MP6		309
E8PBA	N/A	1490G8		311
E8PBAM	N/A	1490MG8		311
E9PB	N/A	1435K		301
E9PBA	N/A	1490H9		311
E9PBAM	N/A	1490MH9		311
E9PBG	N/A	1435MK		301
E9PBGSS	N/A	1435MSSK		303
E9PBGXM	N/A	MPB9		299
E9PBSS	N/A	1435SSK		303
E9PBSS6	N/A	1435S16K		303
E9PBX	N/A	1437K		305
E9PBXM	N/A	1437MK		305
E9PBY25	N/A	1489P9		309
E9PBY25M	N/A	1489MP9		309
F126L06	N/A	1485F6		323
F126L12	N/A	1485F12		323
F126L120	N/A	1485F120		323
F126L24	N/A	1485F24		323
F126L36	N/A	1485F36		323
F126L48	N/A	1485F48		323
F126L60	N/A	1485F60		323
F126LA	N/A	1485FX		324
F126LB	N/A	1485FK		326
F126LC	N/A	1485FY		324
F126LE45A	N/A	1485F4N		325
F126LE9A	N/A	1485F9N		325
F126LE9B	N/A	1485F9P		325
F126LE9C	N/A	1485F9Q		325

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
F126LP	N/A	1485FH		327
F126LRE44	N/A	1485FREC		326
F126LRE66	N/A	1485FRED		326
F126LSAG	N/A	1485FS9		323
F126LSGQR	N/A	1485FSM		323
F126LTA	N/A	1485FTN		326
F126LX	N/A	1485FW2		324
F126LXL	N/A	1485FW1		324
F22G120WK	N/A	CWST2120		338
F22G12WK	N/A	CWST212		338
F22G24WK	N/A	CWST224		338
F22G36WK	N/A	CWST236		338
F22G45E	N/A	CWEL245		339
F22G48WK	N/A	CWST248		338
F22G60WK	N/A	CWST260		338
F22G90E	N/A	CWEL290		339
F22GA	N/A	CWTL2		339
F22GCP	N/A	CWCP2		338
F22GDB	N/A	CWHD2		339
F22GPA	N/A	CWAD2		339
F22GSH	N/A	CWHW2		339
F22HB	N/A	1485BL2		327
F22HD	N/A	1485BL1		327
F22L06	N/A	1485B6		323
F22L12	N/A	1485B12		323
F22L120	N/A	1485B120		323
F22L24	N/A	1485B24		323
F22L36	N/A	1485B36		323
F22L48	N/A	1485B48		323
F22L60	N/A	1485B60		323
F22LA	N/A	1485BX		324
F22LB	N/A	1485BK		326
F22LC	N/A	1485BY		324
F22LE45A	N/A	1485B4N		325
F22LE45B	N/A	1485B4P		325
F22LE45C	N/A	1485B4Q		325
F22LE9A	N/A	1485B9N		325
F22LE9B	N/A	1485B9P		325
F22LE9C	N/A	1485B9Q		325
F22LJ	N/A	1485BJ		327
F22LKOKT	N/A	1485BZC12		326
F22LKT	N/A	1485BZ12		326
F22LN1	N/A	1485BM1		324
F22LN2	N/A	1485BM2		324
F22LN3	N/A	1485BM3		324
F22LP	N/A	1485BH		327
F22LSAG	N/A	1485BS9		323
F22LSGQR	N/A	1485BSM		323
F22LTA	N/A	1485BTN		326
F22LTC	N/A	1485BTQ		326
F22LX	N/A	1485BW2		324
F22LXL	N/A	1485BW1		324
F22T	N/A	CWTF2		338
F22T12HC	N/A	1486B12		329
F22T18HC	N/A	1486B18		329
F22T24HC	N/A	1486B24		329
F22T36HC	N/A	1486B36		329
F22T48HC	N/A	1486B48		329
F22T60HC	N/A	1486B60		329
F22T72HC	N/A	1486B72		329
F22W12	N/A	1487B12		332
F22W120	N/A	1487B120		332
F22W24	N/A	1487B24		332
F22W36	N/A	1487B36		332
F22W48	N/A	1487B48		332
F22W60	N/A	1487B60		332
F22WA	N/A	1487BX		333
F22WB	N/A	1487BK		334
F22WC	N/A	1487BY		334
F22WE225	N/A	1487B2P		333
F22WE45	N/A	1487B4P		333
F22WE90	N/A	1487B9P		333

Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
F22WFF	N/A	1485BFF		324
F22WG	N/A	1487BS		331
F22WN1	N/A	1487BM1		332
F22WN2	N/A	1487BM2		332
F22WN3	N/A	1487BM3		332
F22WN6	N/A	1487BM6		332
F22WP	N/A	1487BH		334
F22WSA	N/A	1485BV1		323
F22WSA	N/A	1485BV1		323
F22WSC	N/A	1485BV2		323
F22WT	N/A	1487BT		334
F22WX	N/A	1487BW		333
F22X	N/A	CWCF2		338
F44BK60	N/A	1487CB60		323
F44G120WK	N/A	CWST4120		338
F44G12WK	N/A	CWST412		338
F44G22R	N/A	CWCRD42		NIC
F44G22R	N/A	CWRD42		338
F44G24WK	N/A	CWST424		338
F44G36WK	N/A	CWST436		338
F44G45E	N/A	CWEL445		339
F44G48WK	N/A	CWST448		338
F44G60WK	N/A	CWST460		338
F44G72WK	N/A	CWST472		338
F44G90E	N/A	CWEL490		339
F44GA	N/A	CWTL4		339
F44GCP	N/A	CWCP4		338
F44GDB	N/A	CWHD4		339
F44GPA	N/A	CWAD4		339
F44GSH	N/A	CWHW4		339
F44HB	N/A	1485CL2		327
F44HD	N/A	1485CL1		327
F44L06	N/A	1485C6		323
F44L12	N/A	1485C12		323
F44L120	N/A	1485C120		323
F44L24	N/A	1485C24		323
F44L36	N/A	1485C36		323
F44L48	N/A	1485C48		323
F44L60	N/A	1485C60		323
F44LA	N/A	1485CX		324
F44LB	N/A	1485CK		326
F44LC	N/A	1485CY		324
F44LE45A	N/A	1485C4N		325
F44LE45B	N/A	1485C4P		325
F44LE45C	N/A	1485C4Q		325
F44LE9A	N/A	1485C9N		325
F44LE9B	N/A	1485C9P		325
F44LE9C	N/A	1485C9Q		325
F44LJ	N/A	1485CJ		327
F44LKOKT	N/A	1485CZC12		326
F44LKT	N/A	1485CZ12		326
F44LN1	N/A	1485CM1		324
F44LN2	N/A	1485CM2		324
F44LN3	N/A	1485CM3		324
F44LP	N/A	1485CH		327
F44LRE22	N/A	1485CRE		326
F44LSAG	N/A	1485CS9		323
F44LSGQR	N/A	1485CSM		323
F44LTA	N/A	1485CTN		326
F44LTC	N/A	1485CTQ		326
F44LX	N/A	1485CW2		324
F44LXL	N/A	1485CW1		324
F44T	N/A	CWTF4		338
F44T12HC	N/A	1486C12		329
F44T18HC	N/A	1486C18		329
F44T24HC	N/A	1486C24		329
F44T30HC	N/A	1486C30		329
F44T36HC	N/A	1486C36		329
F44T48HC	N/A	1486C48		329
F44T60HC	N/A	1486C60		329
F44T72HC	N/A	1486C72		329
F44W12	N/A	1487C12		332

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F44W120	N/A	1487C120		332
F44W24	N/A	1487C24		332
F44W36	N/A	1487C36		332
F44W48	N/A	1487C48		332
F44W60	N/A	1487C60		332
F44WA	N/A	1487CX		333
F44WB	N/A	1487CK		334
F44WC	N/A	1487CY		334
F44WE225	N/A	1487C2P		333
F44WE45	N/A	1487C4P		333
F44WE90	N/A	1487C9P		333
F44WFF	N/A	1485CFF		324
F44WG	N/A	1487CS		331
F44WN1	N/A	1487CM1		332
F44WN2	N/A	1487CM2		332
F44WN3	N/A	1487CM3		332
F44WN6	N/A	1487CM6		332
F44WP	N/A	1487CH		334
F44WR22	N/A	1487CRC		335
F44WRE22	N/A	1487CRE		335
F44WSA	N/A	1485CV1		323
F44WSA	N/A	1485CV1		323
F44WSC	N/A	1485CV2		323
F44WT	N/A	1487CT		334
F44WX	N/A	1487CW		333
F44X	N/A	CWCF4		338
F66BK60	N/A	CWBA612		338
F66G120WK	N/A	CWST6120		338
F66G12WK	N/A	CWST612		338
F66G24WK	N/A	CWST624		338
F66G36WK	N/A	CWST636		338
F66G44R	N/A	CWCRD64		NIC
F66G44R	N/A	CWRD64		338
F66G45E	N/A	CWEL645		339
F66G48WK	N/A	CWST648		338
F66G60WK	N/A	CWST660		338
F66G72WK	N/A	CWST672		338
F66G90E	N/A	CWEL690		339
F66GA	N/A	CWTL6		339
F66GCP	N/A	CWCP6		338
F66GDB	N/A	CWHD6		339
F66GPA	N/A	CWAD6		339
F66GSH	N/A	CWHW6		339
F66HB	N/A	1485DL2		327
F66HD	N/A	1485DL1		327
F66L06	N/A	1485D6		323
F66L12	N/A	1485D12		323
F66L120	N/A	1485D120		323
F66L24	N/A	1485D24		323
F66L36	N/A	1485D36		323
F66L48	N/A	1485D48		323
F66L60	N/A	1485D60		323
F66LA	N/A	1485DX		324
F66LB	N/A	1485DK		326
F66LC	N/A	1485DY		324
F66LE45A	N/A	1485D4N		325
F66LE45B	N/A	1485D4P		325
F66LE45C	N/A	1485D4Q		325
F66LE9A	N/A	1485D9N		325
F66LE9B	N/A	1485D9P		325
F66LE9C	N/A	1485D9Q		325
F66LJ	N/A	1485DJ		327
F66LKOKT	N/A	1485DZC12		326
F66LKT	N/A	1485DZ12		326
F66LN1	N/A	1485DM1		324
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F66LN3	N/A	1485DM3		324
F66LP	N/A	1485DH		327
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F66LTC	N/A	1485DTQ		326
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F66LXL	N/A	1485DW1		324
F66T	N/A	CWTF6		338
F66T12HC	N/A	1486D12		329
F66T18HC	N/A	1486D18		329
F66T24HC	N/A	1486D24		329
F66T30HC	N/A	1486D30		329
F66T36HC	N/A	1486D36		329
F66T48HC	N/A	1486D48		329
F66T60HC	N/A	1486D60		329
F66T72HC	N/A	1486D72		329
F66W12	N/A	1487D12		332
F66W120	N/A	1487D120		332
F66W24	N/A	1487D24		332
F66W36	N/A	1487D36		332
F66W48	N/A	1487D48		332
F66W60	N/A	1487D60		332
F66WA	N/A	1487DX		333
F66WB	N/A	1487DK		334
F66WC	N/A	1487DY		334
F66WE225	N/A	1487D2P		333
F66WE45	N/A	1487D4P		333
F66WE90	N/A	1487D9P		333
F66WFF	N/A	1485DFF		324
F66WG	N/A	1487DS		331
F66WN1	N/A	1487DM1		332
F66WN2	N/A	1487DM2		332
F66WN3	N/A	1487DM3		332
F66WN6	N/A	1487DM6		332
F66WP	N/A	1487DH		334
F66WR44	N/A	1487DRC		335
F66WRE44	N/A	1487DRE		335
F66WSA	N/A	1485DV1		323
F66WSA	N/A	1485DV1		323
F66WSC	N/A	1487DV2		332
F66WT	N/A	1487DT		334
F66WX	N/A	1487DW		333
F66X	N/A	CWCF6		338
F88BK60	N/A	CWBA812		338
F88G45E	N/A	CWEL845		339
F88G66R	N/A	CWCRD86		NIC
F88G66R	N/A	CWRD86		338
F88G90E	N/A	CWEL890		339
F88GA	N/A	CWTL8		339
F88GCP	N/A	CWCP8		338
F88GDB	N/A	CWHD8		339
F88GPA	N/A	CWAD8		339
F88GSH	N/A	CWHW8		339
F88HB	N/A	1485EL2		327
F88HD	N/A	1485EL1		327
F88L06	N/A	1485E6		323
F88L12	N/A	1485E12		323
F88L120	N/A	1485E120		323
F88L24	N/A	1485E24		323
F88L36	N/A	1485E36		323
F88L48	N/A	1485E48		323
F88L60	N/A	1485E60		323
F88LA	N/A	1485EX		324
F88LB	N/A	1485EK		326
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F88LE45A	N/A	1485E4N		325
F88LE45B	N/A	1485E4P		325
F88LE45C	N/A	1485E4Q		325
F88LE9A	N/A	1485E9N		325
F88LE9B	N/A	1485E9P		325
F88LE9C	N/A	1485E9Q		325
F88LJ	N/A	1485EJ		327
F88LP	N/A	1485EH		327
F88LRE66	N/A	1485ERE		326
F88LSAG	N/A	1485ES9		323
F88LSGQR	N/A	1485ESM		323

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F88LTC	N/A	1485ETQ		326
F88LX	N/A	1485EW2		324
F88LXL	N/A	1485EW1		324
F88T	N/A	CWTF8		338
F88W12	N/A	1487E12		332
F88W120	N/A	1487E120		332
F88W24	N/A	1487E24		332
F88W36	N/A	1487E36		332
F88W48	N/A	1487E48		332
F88W60	N/A	1487E60		332
F88WA	N/A	1487EX		333
F88WB	N/A	1487EK		334
F88WC	N/A	1487EY		334
F88WE225	N/A	1487E2P		333
F88WE45	N/A	1487E4P		333
F88WE90	N/A	1487E9P		333
F88WFF	N/A	1485EFF		324
F88WG	N/A	1487ES		331
F88WN1	N/A	1487EM1		332
F88WN2	N/A	1487EM2		332
F88WN3	N/A	1487EM3		332
F88WN6	N/A	1487EM6		332
F88WP	N/A	1487EH		334
F88WR44	N/A	1487ERCC		335
F88WR66	N/A	1487ERCD		335
F88WRE44	N/A	1487EREC		335
F88WRE66	N/A	1487ERED		335
F88WSA	N/A	1485EV1		323
F88WSA	N/A	1485EV1		323
F88WSC	N/A	1485EV2		323
F88WSC	N/A	1485EV2		323
F88WT	N/A	1487ET		334
F88WX	N/A	1487EW		333
F88X	N/A	CWCF8		338
G050000	N/A	PFG2000		NIC
G100000	N/A	PFG3000		NIC
G130000	N/A	PFG5000		NIC
HJ1008HW	N/A	PJU1084HF	Also PJ (PJU shown)	126
HJ1008HWPL1	N/A	PJU1084LF	Also PJ (PJU shown)	120
HJ1008W	N/A	PJU1084F	Also PJ (PJU shown)	124
HJ1210HW	N/A	PJU12106HF	Also PJ (PJU shown)	126
HJ1210HWPL2	N/A	PJU12106LF	Also PJ (PJU shown)	120
HJ1210W	N/A	PJU12106F	Also PJ (PJU shown)	124
HJ1412HW	N/A	PJU14126HF	Also PJ (PJU shown)	126
HJ1412HWPL2	N/A	PJU14126LF	Also PJ (PJU shown)	120
HJ1412W	N/A	PJU14126F	Also PJ (PJU shown)	124
HJ1614HW	N/A	PJU16148HF	Also PJ (PJU shown)	126
HJ1614HWPL2	N/A	PJU16148LF	Also PJ (PJU shown)	120
HJ1614W	N/A	PJU16148F	Also PJ (PJU shown)	124
HJ606HW	N/A	PJU664HF	Also PJ (PJU shown)	126
HJ606HWPL1	N/A	PJU664LF	Also PJ (PJU shown)	120
HJ606W	N/A	PJU664F	Also PJ (PJU shown)	124
HJ806HW	N/A	PJU864HF	Also PJ (PJU shown)	126
HJ806HWPL1	N/A	PJU864LF	Also PJ (PJU shown)	120
HJ806W	N/A	PJU864F	Also PJ (PJU shown)	124
HJB1008HWPL1	N/A	PJU1084LWF	Also PJ (PJU shown)	128
HJB1210HWPL2	N/A	PJU12106LWF	Also PJ (PJU shown)	128
HJB1412HWPL2	N/A	PJU14126LWF	Also PJ (PJU shown)	128
HJB1614HWPL2	N/A	PJU16148LWF	Also PJ (PJU shown)	128
HJB606HWPL1	N/A	PJU664LWF	Also PJ (PJU shown)	128
HJB806HWPL1	N/A	PJU864LWF	Also PJ (PJU shown)	128
LHC151512	N/A	EJ664	Ham incl. Panel	3
LHC151512SS	N/A	EJ644SS	Ham incl. Panel	63
LHC201512	N/A	EJ863	Ham incl. Panel	3
LHC201512	N/A	EJ866	Ham incl. Panel	3
LHC201512SS	N/A	EJ863SS	Ham incl. Panel	63
LHC252015	N/A	EJ1086	Ham incl. Panel	3
LHC252015SS	N/A	EJ1084SS	Ham incl. Panel	63
LHC302515	N/A	EJ12105	Ham incl. Panel	3
LHC302515	N/A	EJ12126	Ham incl. Panel	3
LHC302515SS	N/A	EJ12105SS	Ham incl. Panel	63
LHC302515SS	N/A	EJ12105SS	Ham incl. Panel	63
LHC353020	N/A	EJ14128	Ham incl. Panel	3
LHC353020SS	N/A	EJ14128SS	Ham incl. Panel	63
M130116G1014	N/A	DTS1200A115LG	Functional Cross	390
M130126G1008	N/A	DTS1200A230LG	Functional Cross	390
M170216G009	N/A	DTS2000A115LG	Functional Cross	391
M170226G004	N/A	DTS2000A230LG	Functional Cross	391
M280216G013	N/A	DTI9031A115LG	Functional Cross	NIC
M280226G004	N/A	DTI9031A230LG	Functional Cross	NIC
M280416G002	N/A	DTS3141A115LG	Functional Cross	394
M280426G002	N/A	DTS3141A230LG	Functional Cross	394
M280426G032	N/A	DTS3500A230LG	Functional Cross	393
M330416G010	N/A	DTS3500A115LG	Functional Cross	393
M330426G009	N/A	DTS3500A230LG	Functional Cross	393
M520816032	N/A	DTS8000A115LG	Functional Cross	396
M520826015	N/A	DTS8000A230LG	Functional Cross	396
M521216017	N/A	DTS12000A115LG	Functional Cross	396
M521226034	N/A	DTS12000A230LG	Functional Cross	396
MHB110416G307	N/A	DTT4500A115LG	Functional Cross	399
MHB110426G306	N/A	DTT4500A230LG	Functional Cross	399
PC1M12	N/A	CCSTL		246
PC1M12	N/A	CCSTN		246
PDS166	N/A	IMESD166		241
PDS167	N/A	IMESD167		241
PDS168	N/A	IMESD168		241
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PDS186	N/A	IMESD186		241
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PMBLM12	N/A	CLFK		244
PPC1666	N/A	IPC1676		237
PPC1668	N/A	IPC1678		237
PPC1686	N/A	IPC1686		237
PPC1866	N/A	IPC1876		237
PPC1868	N/A	IPC1878		237
PPC1886	N/A	IPC1886		237
PPFSM166	N/A	IMEPS166		239
PPFSM168	N/A	IMEPS168		239
PPFSM184	N/A	IMEPS184		239
PPFSM185	N/A	IMEPS185		239
PPFSM186	N/A	IMEPS186		239
PPFSM188	N/A	IMEPS188		239
PPFSM204	N/A	IMEPS204		239
PPFSM205	N/A	IMEPS205		239
PPFSM206	N/A	IMEPS206		239
PPFSM208	N/A	IMEPS208		239
PRA1916TH	N/A	CCR63TZPL		246
PRA1918TH	N/A	CCR70TZPL		246
PRA1920TH	N/A	CCR78TZPL		246
PSF167	N/A	IMESWF167		247
PSF168	N/A	IMESWF168		247
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PST566SS	N/A	2CSD24R		261
PST5A66	N/A	2CPD24R		261
PST5A66	N/A	2CRD24R		261
Q1PBPCD	N/A	PJ744P1	Ham is polyester	315
Q1PBPCDM	N/A	PJ744P221	Ham is polyester	315
Q2PBPCD	N/A	PJ744P2	Ham is polyester	315
Q2PBPCDM	N/A	PJ744P222	Ham is polyester	315
Q3PBPCD	N/A	PJ944P3	Ham is polyester	315
Q3PBPCDM	N/A	PJ944P223	Ham is polyester	315

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Hoffman + Part No.	Panel = Part No.	Hammond Part No.	Comments	E5 Page
RHJ1008HW	N/A	PJ1084RH	Ham uses feet	115
RHJ1008HWPL1	N/A	PJ1084RL	Ham uses feet	116
RHJ1008W	N/A	PJ1084R	Ham uses feet	114
RHJ1210HW	N/A	PJ12106RH	Ham uses feet	115
RHJ1210HWPL2	N/A	PJ12106RL	Ham uses feet	116
RHJ1210W	N/A	PJ12106R	Ham uses feet	114
RHJ1412HW	N/A	PJ14126RH	Ham uses feet	115
RHJ1412HWPL2	N/A	PJ14126RL	Ham uses feet	116
RHJ1412W	N/A	PJ14126R	Ham uses feet	114
RHJ1614HW	N/A	PJ16148RH	Ham uses feet	115
RHJ1614HWPL2	N/A	PJ16148RL	Ham uses feet	116
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RHJ1816HW	N/A	PJ18168RH	Ham uses feet	115
RHJ1816HWPL2	N/A	PJ18168RL	Ham uses feet	116
RHJ1816W	N/A	PJ18168R	Ham uses feet	114
RHJB1008HWPL1	N/A	PJ1084RLW	Ham uses feet	116
RHJB1210HWPL2	N/A	PJ12106RLW	Ham uses feet	116
RHJB1412HWPL2	N/A	PJ14126RLW	Ham uses feet	116
RHJB1614HWPL2	N/A	PJ16148RLW	Ham uses feet	116
SF0516002	N/A	PF2000	Functional Cross	408
SF0526002	N/A	PF2000230	Functional Cross	408
SF0916002	N/A	PF2500	Functional Cross	408
SF0926002	N/A	PF2500230	Functional Cross	408
SF1016002	N/A	PF3000	Functional Cross	408
SF1026002	N/A	PF3000230	Functional Cross	408
SF1316002	N/A	PF6000	Functional Cross	408
SF1326002	N/A	PF6000230	Functional Cross	408
SG0500002	N/A	PFA1000	Functional Cross	410
SG0500002	N/A	PFA2000	Functional Cross	410
SG1000002	N/A	PFA3000	Functional Cross	410
SG1300002	N/A	PFA5000	Functional Cross	410
T10S3R	N/A	PFRH5000LG	Functional Cross	411
T10S3R	N/A	PFRH5000GY	Functional Cross	411
T10S3RSS	N/A	PFRH5000SS	Functional Cross	411
T290416G100	N/A	DTS3161A115N3LG	Functional Cross	402
T290426G100	N/A	DTS3161A230N3LG	Functional Cross	402
T4S3R	N/A	PFRH2000LG	Functional Cross	411
T4S3R	N/A	PFRH2000GY	Functional Cross	411
T4S3RSS	N/A	PFRH2000SS	Functional Cross	411
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T6S3R	N/A	PFRH3000GY	Functional Cross	411
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WS161608SS	N/A	ST161608SS	Functional Cross	77
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WS201612SS	N/A	ST201612SS	Functional Cross	77
WS202008SS	N/A	ST202008SS	Functional Cross	77
WS202012SS	N/A	ST202012SS	Functional Cross	77
WS242008SS	N/A	ST242008SS	Functional Cross	77
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WS242412SS	N/A	ST242412SS	Functional Cross	77
WS302408SS	N/A	ST302408SS	Functional Cross	77
WS302412SS	N/A	ST302412SS	Functional Cross	77
WS303008SS	N/A	ST303008SS	Functional Cross	77
WS363008SS	N/A	ST363008SS	Functional Cross	77
WS363012SS	N/A	ST363012SS	Functional Cross	77
WS363016SS	N/A	ST363016SS	Functional Cross	77
WS363612SS	N/A	ST363612SS	Functional Cross	77
WS483616SS	N/A	ST483616SS	Functional Cross	77
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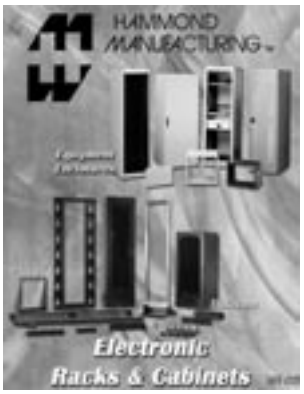
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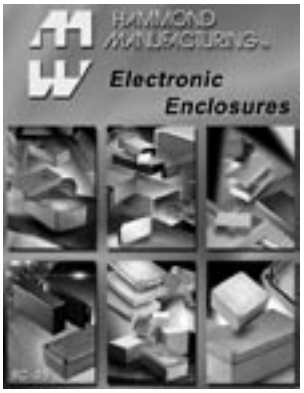
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