



2010
NH Three Phase

Wylex Industrial Circuit Protection

Wylex have a comprehensive range of Industrial Circuit protection products that meet the demanding needs of many Industry sectors, in particular, Education, Health, Manufacturing and the ever changing requirements of electrical installations in just about every Commercial Building that exists today.

A range of Wylex metering has been introduced to enable end users to meet the Building Regulations Part L2.

Building operators need to have a clear understanding of exactly where all the energy is being consumed by utilising sub-metering to monitor at least 90% of the energy usage assigned to various end use categories eg: Heating, Lighting, Power and various others. This is explained in detail by the Chartered Institution of Building Services Engineers guide to energy sub-metering in non-domestic buildings ref TM39 Building energy metering.

This includes buildings that are used for multiple occupancy purposes such as hotels, student accommodation blocks, boarding houses, hospitals, hotels etc.

Range Overview

NH Distribution Boards - All metal enclosures ●
for both Type A (single phase) and Type B (three phase) ratings 125A and 250A - choice of incoming devices plus a choice of either 10kA or 6kA MCBs and RCBOs

NH125 Panelboards - 250A or 400A fault rated ●
fully shrouded busbar systems.
NHG125 MCCBs 16A to 125A
rated - 25kA fault breaking capacity.
Conforms fully with BSEN 60943-1 form 2

NH200 Panelboards - 400A, 630A and 800A ●
fault rated fully shrouded busbar systems.
NHJ200 MCCBs 16A to 200A - 25kA
fault breaking capacity. Conforms fully with
BSEN 608943-1 form 2





The Value Engineered Solution.

Wylex aim is to provide the best value engineered solution offering quality circuit protection systems that can also help Building Managers, Landlords and Tenants to understand the energy usage and consequently create opportunities to reduce the overall energy consumption - today and for the future.

NH MCB Distribution

- Over 250 different boards available from standard Catalogue items
- Each board has the facility to fit an add-on sub metering option from standard catalogued items
- A dual metered incoming pack available for split sub-metered, - "Lighting and Power" distribution units - 49 configuration options available
- Any individual outgoing circuit MCB up to 80 Amps has an option to be metered with a direct connected kWh meter and extension enclosure
- Choice of incoming devices including Switch Disconnector, RCDs or Direct connection
- Removable pan assembly and gland plates for easy fixing and cable entry
- Comprehensive range of 10kA and 6kA MCBs Type B, C and D curve and RCBOs Type B and C curve

NH125/200 MCCB Panel Boards

- 250A, 400A, 430A or 800A fault rated fully shrouded busbar system.
- Each Panel Board has the facility for metering. For NH125 this is an add-on enclosure, for NH200 this is factory fitted and supplied as a complete Factory Built Assembly.
- Individual outgoing MCCB circuits up to 125 Amps have an option to be metered with our direct connected kWh meter and extension enclosures using standard catalogue items.



NH DISTRIBUTION BOARDS

The Wylex range of NH distribution Boards is designed to cater for a variety of industrial and commercial applications.

The wide range of boards is complemented by an extensive choice of incoming Devices including direct connection, switch disconnecter and RCD, outgoing devices include a broad selection of MCBs and RCBOs.

This comprehensive collection of circuit protection and distribution products allows the contractor to select the most economical and electrically appropriate solutions.

- Choice of incoming devices including Switch Disconnector, RCDs, or Direct Connection
- Two frame sizes 125A and 250A B Boards
- B Boards accept four pole incomers (125A)
- Over 250 different boards available from standard catalogue items
- Removable pan assembly and gland plates for easy fixing and cable entry
- Range of 10kA and 6kA MCBs
- Single pole 18mm wide RCBOs



NH DISTRIBUTION BOARDS



NH TYPE A SP&N DISTRIBUTION BOARDS (Switch Disconnecter fitted)

SP WAYS	SWITCH RATING	LIST NO
5	125A	NHSPN0051
8	125A	NHSPN0081
11	125A	NHSPN00111
14	125A	NHSPN00141
16	125A	NHSPN00161
19	125A	NHSPN00191

NH A BOARD OPTIONAL INCOMERS

DESCRIPTION	LIST NO
100A 2 Pole Switch Disconnecter	WS102
100A 2 Pole RCD 30mA	WRS100/2
100A 2 Pole RCD 100mA	WRM100/2
DP Direct Connection Terminals	NHDPDC

A wide range of custom built variations are also available.
Contact Wylex Technical for full details.



NH TYPE B TP&N DISTRIBUTION BOARDS (excluding Incomer)

TP WAYS	SP WAYS	125A	250A
4	12	NHTN4	NHTN2540
6	18	NHTN6	NHTN2560
8	24	NHTN8	NHTN2580
12	36	NHTN12	NHTN25120
16	48	NHTN16	NHTN25160
20	60	NHTN20	NHTN25200
24	72	NHTN24	NHTN25240

For flush mounting add suffix /Flu

NH HEAVY DUTY IP66 B TYPE 125A DISTRIBUTION BOARDS (excluding Incomer)

TP WAYS	SP WAYS	LIST NO
4	12	NHTN4HD
6	18	NHTN6HD
8	24	NHTN8HD
12	36	NHTN12HD
16	48	NHTN16HD



INCOMERS FOR 125A TP&N DISTRIBUTION BOARDS

RATING	DIRECT CONNECT	SWITCH	30mA RCD	100mA RCD	300mA RCD
63A	-	WS603	WRS63/4*	WRM63/4*	WRL63/4*
100A	-	WS103	WRS100/4*	WRM100/4*	WRL100/4*
100A	-	WS104*	-	-	-
125A	NHTPDC	WS123	-	-	-
125A	-	WS124*	-	-	-

Note: *Four pole incomers require connection kit. Ref: NH4PINKIT

INCOMERS FOR 250A TP&N DISTRIBUTION BOARDS

RATING	DIRECT CONNECT	SWITCH
250A	NH250DC	NH250TPSW
200A	-	NH200TPSW

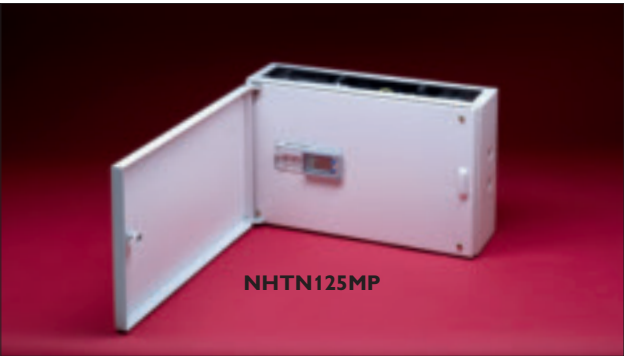


DISTRIBUTION BOARD ACCESSORIES

DESCRIPTION	LIST NO
4 Pole Incomer Connection Kit *	NH4PINKIT
Single row DIN accessory box (18 mod)	NHAB
Two row DIN accessory box (36 mod)	NHAB2
Three row DIN accessory box (54 mod)	NHAB3
Four row DIN accessory box (72 mod)	NHAB4
Five row DIN accessory box (90 mod)	NHAB5
Plain extension box	NHEB
Replacement gland plate	NHEP11
Locking device for MCB (requires padlock)	MCBLDX
Padlock for MCBLDX	WPL
Standard door lock	NHPBDL
Door lock with padlocking device	PSDPL
Solid Blank Dummy MCB	NHB1PP
Twist Fit Blank	NH00PP
3 way MCB & busbar way blank kit	PSBL3
9 way MCB & busbar way blank kit	PSBL9
Busbar tap off kit	NHBBTOK

A wide range of custom built variations with metering for outgoing ways are also available contact Wylex Technical for full details.

NH METERING DISTRIBUTION BOARDS



METER KIT EXTENSION BOXES

DESCRIPTION	LIST NO
125A	NHTN125MP

- For use with 125A TP MCB B Boards
- Complete with Meter, Current Transformers & Cable Loom
- Digital Meter with kWh, Amps and Volts readout

250A	NHTN250MP
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- For use with 250A TP MCB Boards
- Complete with Meter, Current Transformers & Cable Loom
- Digital Meter with kWh, Amps and Volts readout

For MID approved options contact Wylex Technical for full details.



LIGHT AND POWER EXTENSION METERING KIT

DESCRIPTION	LIST NO
125A	NHTN125LP

- For use with 125A TP MCB Boards
- Complete with Meter, Current Transformers & Cable Loom
- Digital Meter with kWh, Amps and Volts readout

250A	NHTN250LP
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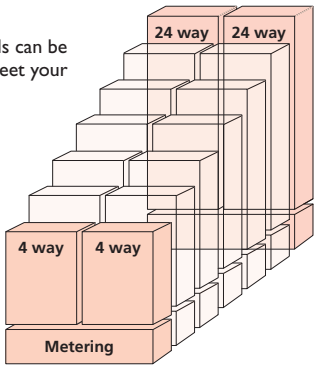
- For use with 250A TP MCB Boards
- Complete with Meter, Current Transformers & Cable Loom
- Digital Meter with kWh, Amps and Volts readout

For MID approved options contact Wylex Technical for full details.



DUAL METERED LIGHT AND POWER BOARDS

- Suitable for use with any size of distribution board of the same rating
- 42 Options / Variations on outgoing ways
- Min 2x 4 TP way
- Max 2x 24 TP ways
- Any two standard size distribution boards can be mounted to the L&P Metering unit to meet your specific requirements



A wide range of custom built variations are also available.
Contact Wylex technical for full details.



KILOWATT HOUR METERS

DESCRIPTION	MODULE	LIST NO
80A SP kWh Meter	2	NHCM80SP
80A TP kWh Meter	4	NHCM80TP
80A SP kWh (MID Approved) Meter	2	NHMID80SP
80A TP kWh (MID Approved) Meter	4	NHMID80TP

- Direct Connected Digital kWh meter
 - Pulsed output for BMS monitoring
 - DIN Rail mounting
- For use in DIN enclosures eg: NHAB

MID approval - see Technical section



10kA MCBs SINGLE POLE

DESCRIPTION	B CURVE	C CURVE	D CURVE
6A SP MCB 10kA	PSB06-B	PSB06-C	PSB06-D
10A SP MCB 10kA	PSB10-B	PSB10-C	PSB10-D
16A SP MCB 10kA	PSB16-B	PSB16-C	PSB16-D
20A SP MCB 10kA	PSB20-B	PSB20-C	PSB20-D
32A SP MCB 10kA	PSB32-B	PSB32-C	PSB32-D
40A SP MCB 10kA	PSB40-B	PSB40-C	PSB40-D
50A SP MCB 10kA	PSB50-B	PSB50-C	PSB50-D
63A SP MCB 10kA	PSB63-B	PSB63-C	PSB63-D
80A SP MCB 10kA	-	PSB80-C	-



10kA MCBs TRIPLE POLE

DESCRIPTION	B CURVE	C CURVE	D CURVE
6A TP MCB 10kA	PSB306-B	PSB306-C	PSB306-D
10A TP MCB 10kA	PSB310-B	PSB310-C	PSB310-D
16A TP MCB 10kA	PSB316-B	PSB316-C	PSB316-D
20A TP MCB 10kA	PSB320-B	PSB320-C	PSB320-D
32A TP MCB 10kA	PSB332-B	PSB332-C	PSB332-D
40A TP MCB 10kA	PSB340-B	PSB340-C	PSB340-D
50A TP MCB 10kA	PSB350-B	PSB350-C	PSB350-D
63A TP MCB 10kA	PSB363-B	PSB363-C	PSB363-D
80A TP MCB 10kA	-	PSB380-C	-



10kA RCBOs SINGLE POLE

DESCRIPTION	B CURVE	C CURVE	D CURVE
6A SP RCBO 10kA	PSBS6-B/1	PSBS6/1	-
10A SP RCBO 10kA	PSBS10-B/1	PSBS10/1	-
16A SP RCBO 10kA	PSBS16-B/1	PSBS16/1	-
20A SP RCBO 10kA	PSBS20-B/1	PSBS20/1	-
32A SP RCBO 10kA	PSBS32-B/1	PSBS32/1	-
40A SP RCBO 10kA	PSBS40-B/1	PSBS40/1	-
50A SP RCBO 10kA	PSBS50-B/1	PSBS50/1	-



DIN RAIL MODULAR DEVICES

PRODUCT	MODULE	LIST NO
Digital Timeclock 1 channel 1xNO/NC Contact 16A	1	SMSCD11
Digital Timeclock 1 channel 1xNO Contact 16A	2	TMSCD21
Digital Timeclock 2 channel	2	TMTCD22
240V Coil 2 Pole 20A Contact rating 2 x N/C	1	MESB-20NC
240V Coil 2 Pole 20A Contact rating 2 x N/O	1	MESB-20NO
240V Coil 4 Pole 24A Contact rating 4 x N/C	2	MESB-24NC
240V Coil 4 Pole 24A Contact rating 4 x N/O	2	MESB-24NO
240V Coil 4 Pole 40A Contact rating 4 x N/C	3	MESB-40NC
240V Coil 4 Pole 40A Contact rating 4 x N/O	3	MESB-40NO
240V Coil 4 Pole 63A Contact rating 4 x N/O	3	MESB-63NO

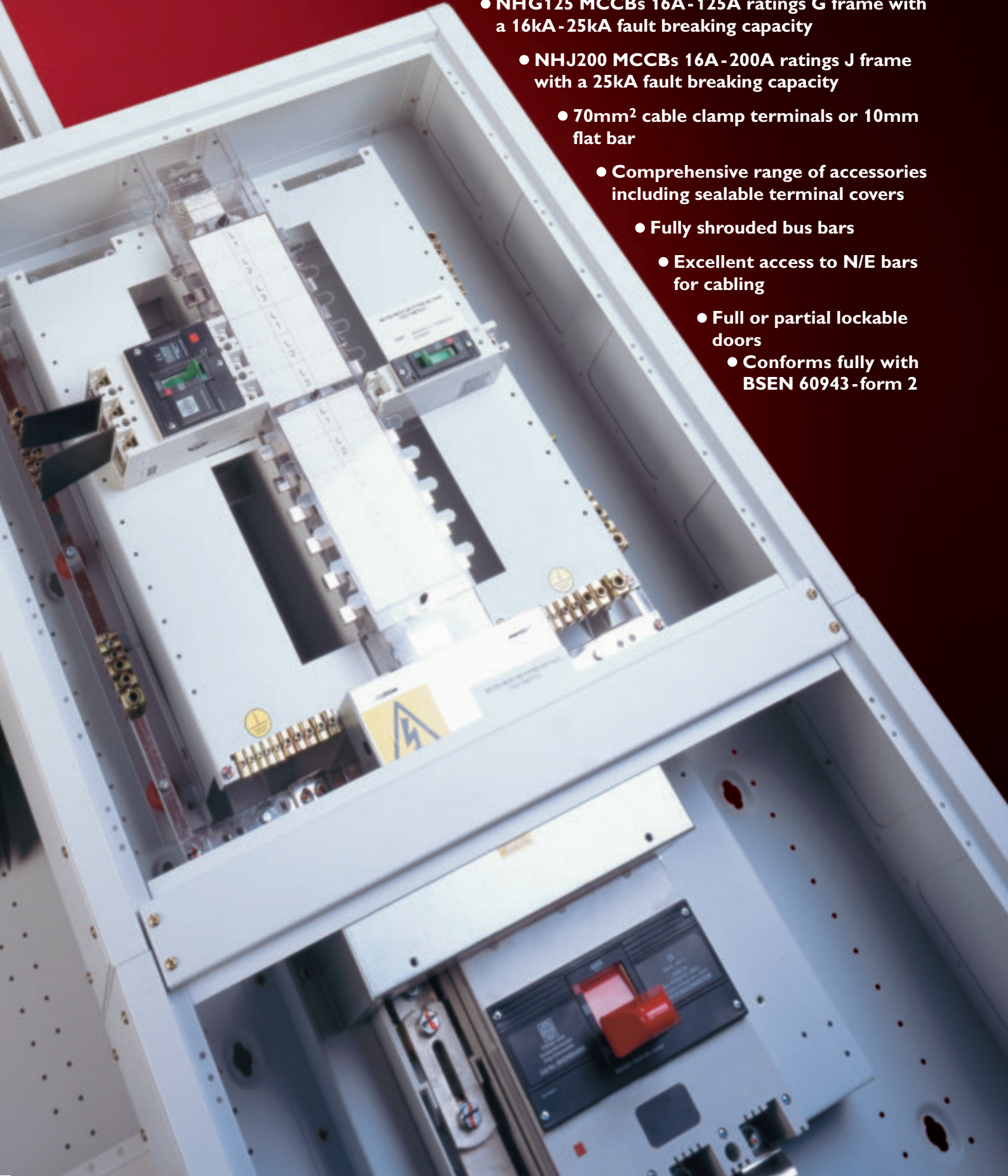
For use in DIN Enclosures EG: NHAB-

NH125G & NH200J MCCB PANELBOARDS

The NH125/200 Panel board system offers 250A, 400A, 630A and 800A fully rated, fully shrouded busbar systems in a modular enclosure system.

The enclosure system combined with either NHG or NHJ MCCBs and a range of accessories, provides a competent flexible main or sub-main distribution board.

- NHG125 MCCBs 16A - 125A ratings G frame with a 16kA - 25kA fault breaking capacity
- NHJ200 MCCBs 16A - 200A ratings J frame with a 25kA fault breaking capacity
- 70mm² cable clamp terminals or 10mm flat bar
- Comprehensive range of accessories including sealable terminal covers
- Fully shrouded bus bars
- Excellent access to N/E bars for cabling
- Full or partial lockable doors
 - Conforms fully with BSEN 60943 - form 2





NH125 G FRAME PANEL BOARDS

Switch Disconnecter Incomer Fitted

200/250A 400A

6 TP Ways Distribution Board	NHPB6SW250	NHPB6SW400
8 TP Ways Distribution Board	NHPB8SW250	NHPB8SW400
12 TP Ways Distribution Board	NHPB12SW250	NHPB12SW400
16 TP Ways Distribution Board	-	NHPB16SW400

Moulded Case Circuit Breaker Incomer Fitted

6 TP Ways Distribution Board	NHPB6CB200	NHPB6CB400
8 TP Ways Distribution Board	NHPB8CB200	NHPB8CB400
12 TP Ways Distribution Board	NHPB12CB200	NHPB12CB400
16 TP Ways Distribution Board	-	NHPB16CB400

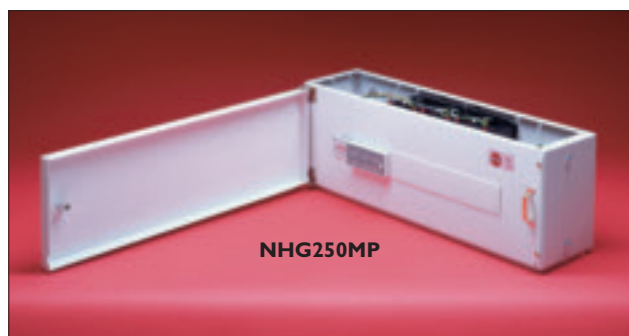
ACCESSORY BOXES

PANELBOARD	MODULAR HEIGHT	HEIGHT (mm)	LIST NO
Cable Spreader Box	4	210	NHCSB
DIN Accessory Box			NHGAB
A Board 13 way			NHG13DB



OUTGOING G FRAME MCCB DEVICES

DESCRIPTION	SINGLE POLE	THREE POLE
16A MCCB	NHGPCB161	NHGPCB163
25A MCCB	NHGPCB251	NHGPCB253
32A MCCB	NHGPCB321	NHGPCB323
40A MCCB	NHGPCB401	NHGPCB403
50A MCCB	NHGPCB501	NHGPCB503
63A MCCB	NHGPCB631	NHGPCB633
80A MCCB	NHGPCB801	NHGPCB803
100A MCCB	NHGPCB1001	NHGPCB1003
125A MCCB	NHGPCB1251	NHGPCB1253



PANEL BOARD METERING KIT

DESCRIPTION	LIST NO
250A	NHG250MP

- For use with 200/250A NHG Panelboards
- Complete with Meter CTs & Cable Loom
- Digital Meter with kWh, Amps and Volts readout

400A	NHG400MP
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- For use with 400A NHG Panelboards
- Complete with Meter CTs & Cable Loom
- Digital Meter with kWh, Amps and Volts readout

For MID approved options contact Wylex Technical for full details.

KILOWATT HOUR METERS

DESCRIPTION	
125A SP kWh *	NHCM125SP
125A TP kWh *	NHCM125TP
125A SP kWh (MID Approved) *	NHMID125SP
125A TP kWh (MID Approved) *	NHMID125TP

- Direct Connected Digital kWh meter
- Pulsed output for BMS monitoring
- DIN Rail mounting

For use in DIN enclosures eg: NHAB

MID approval - see Technical section



* Available Summer 2010

For the availability of side mounted metering extension enclosures and individual metering packs for outgoing ways please contact Wylex technical for full details.



NSPE 4120

NH200 J FRAME MCCB PANEL BOARDS

Switch Disconnecter Incomer Fitted

	400A	630A	800A
4 TP Ways Distribution Board	NSPE-4136	NSPE-4190	NSPE-4151
8 TP Ways Distribution Board	NSPE-4120	NSPE-4191	NSPE-4152
12 TP Ways Distribution Board	NSPE-4137	NSPE-4192	NSPE-4153
16 TP Ways Distribution Board	NSPE-4138	NSPE-4193	NSPE-4154

Moulded Case Circuit Breaker 32kA Incomer Fitted

4 TP Ways Distribution Board	NSPE-4182	NSPE-4171	-
8 TP Ways Distribution Board	NSPE-4183	NSPE-4172	-
12 TP Ways Distribution Board	NSPE-4184	NSPE-4173	-
16 TP Ways Distribution Board	NSPE-4185	NSPE-4174	-

Moulded Case Circuit Breaker 50kA Incomer Fitted

4 TP Ways Distribution Board	NSPE-4186	NSPE-4194	NSPE-4198
8 TP Ways Distribution Board	NSPE-4187	NSPE-4195	NSPE-4199
12 TP Ways Distribution Board	NSPE-4188	NSPE-4196	NSPE-4200
16 TP Ways Distribution Board	NSPE-4189	NSPE-4197	NSPE-4201



NHJPCB2003

OUTGOING J FRAME MCCB DEVICES

DESCRIPTION	SINGLE POLE	THREE POLE
16A MCCB	NHJPCB161	NHJPCB163
25A MCCB	NHJPCB251	NHJPCB253
32A MCCB	NHJPCB321	NHJPCB323
40A MCCB	NHJPCB401	NHJPCB403
50A MCCB	NHJPCB501	NHJPCB503
63A MCCB	NHJPCB631	NHJPCB633
80A MCCB	NHJPCB801	NHJPCB803
100A MCCB	NHJPCB1001	NHJPCB1003
125A MCCB	NHJPCB1251	NHJPCB1253
160A MCCB	NHJPCB1601	NHJPCB1603
200A MCCB	NHJPCB2001	NHJPCB2003

DESCRIPTION	MODULES	LIST NO
Single Pole NHJ Way Blank	1	NHJ00

OUTGOING SECTION OPTIONAL DOORS

	MODULES	CAT REF
3 Mod high door (4W OUT)	3	NHJD03
4 Mod high door (8W OUT)	4	NHJD04
5 Mod high door (12W OUT)	5	NHJD05
6 Mod high door (16W OUT)	6	NHJD06

CABLEWAYS/SPREADER EXTENSION BOXES

	MODULES	CAT REF
3 Mod side cable way †	3	NHJCW3
4 Mod side cable way †	4	NHJCW4
5 Mod side cable way †	5	NHJCW5
6 Mod side cable way †	6	NHJCW6
2 Mod cable spreader box ††	2	NHJCSB2
3 Mod cable spreader box ††	3	NHJCSB3
4 Mod cable spreader box ††	4	NHJCSB4
5 Mod cable spreader box ††	5	NHJCSB5
6 Mod cable spreader box ††	6	NHJCSB6

† Fits left or right hand side of Panelboard

†† Fits at bottom of Panelboard



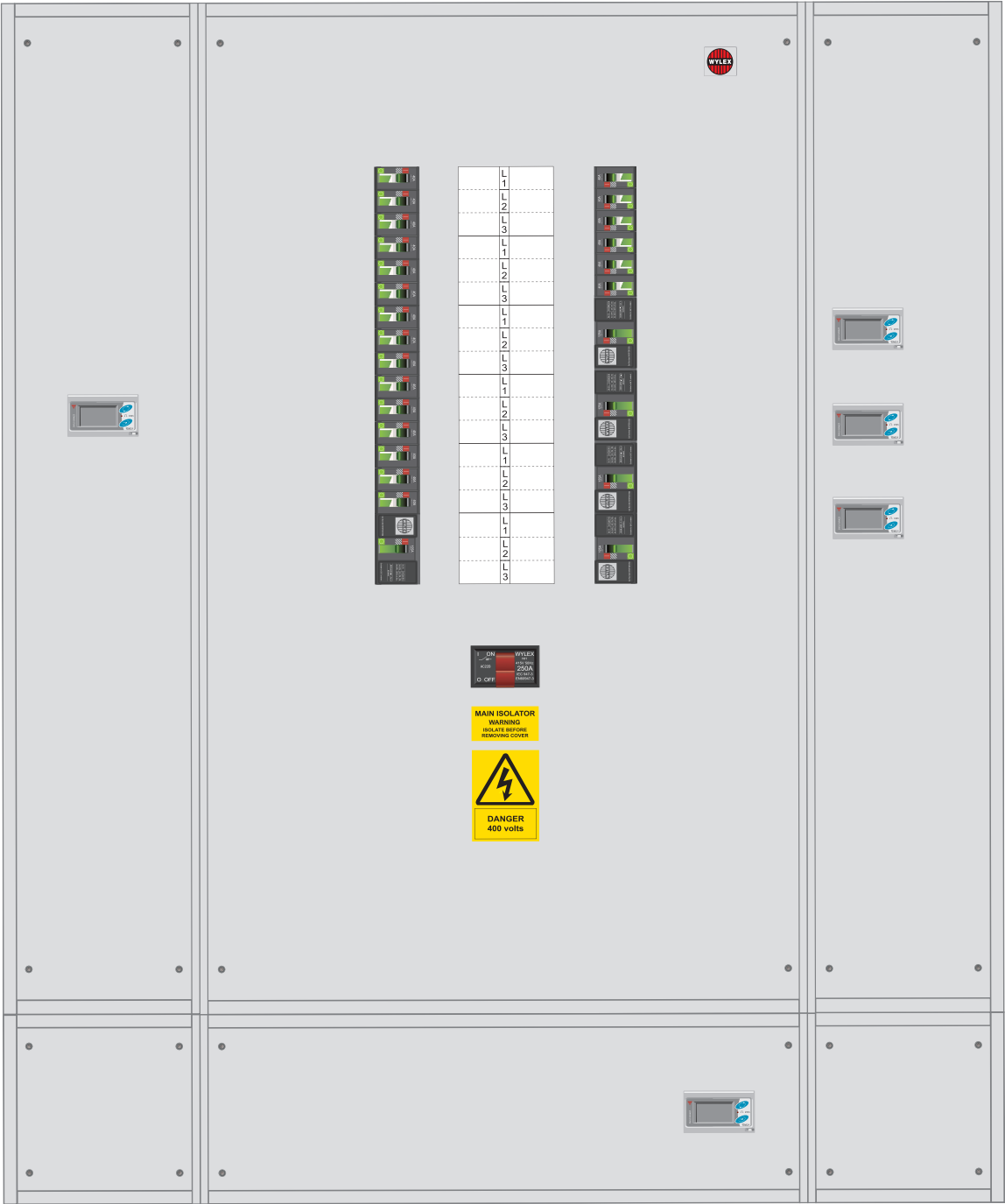
NHJD04

For the availability of Incoming Metering packs, side mounted metering extension enclosures and individual metering packs for outgoing ways please contact Wylex Technical for full details.

FACTORY BUILT ASSEMBLIES

To meet the ever changing requirements and designs of the modern electrical installation - Protection, Control and Metering Wylex offers a Factory Built Assembly service. All of the Three Phase products can be modified, assembled and supplied as complete, tested distribution boards to specific customer needs, helping to substantially reduce on site assembly time for the installer.

Our technical services and engineering teams can assess the feasibility of a product requirement, whilst our modern manufacturing facilities based in Wythenshawe, Manchester will produce a high quality competitive solution.



As a leading manufacturer of electrical domestic and industrial circuit protection products, Wylex is committed to the continual improvement of all quality assurance procedures and performance.

NH FUSE-COMBINATION UNITS

NH Fuse combination units are designed with features that ensure compliance with EN60947 while also providing an economical and high quality range of industrial switchgear products.

With ratings from 20A to 200A and a choice of single pole or three pole configurations, NH fuse combination units have a utilisation category of AC23A, and fused short circuit capacity of 80kA.

- Robust steel enclosures with cable glanding plate supplied top and bottom
- Removable door opens through 180° for ease of access
- Easy access fuse link fixings
- Neutral fully rated
- Fully shrouded terminals
- Handle padlocking facility locks switch & door in off position
- Large cable terminal capacity
- Ingress protection to IP4X
- Positive indication of On and Off





NH FUSE COMBINATION UNIT 20A-32A

AMPERAGE	MODULES	TYPE	SUPPLIED WITH FUSES	CAT REF
20A	4	SP & N	YES	NHSPSF20
20A	4	TP & N	YES	NHTPSF20
32A	4	SP & N	YES	NHSPSF32
32A	4	TP & N	YES	NHTPSF32

Fuse Combination Units Technical Specification

EN 60947-3

IEC 947-3

80kA RMS Fused Short Circuit Capacity

415V ac Rated Voltage

Full Uninterrupted Duty

AC23A Utilisation Category



NH FUSE COMBINATION UNIT 63A-125A

AMPERAGE	MODULES	TYPE	SUPPLIED WITH FUSES	CAT REF
63A	5	SP & N	YES	NHSPSF63
63A	5	TP & N	YES	NHTPSF63
100A	5	SP & N	YES	NHSPSF100
100A	5	TP & N	YES	NHTPSF100
125A	6	TP & N	YES	NHTPSF125

ACCESSORIES

	DESCRIPTION	CAT REF
63A	Copper Isolator links	NHCIL2
100A & 125A	Copper Isolator links	NHCIL3
63A to 100A	Cable Spreader Box	NHCSB2
125A	Cable Spreader Box	NHCSB3

For fuse types see Technical section



NH FUSE COMBINATION UNIT 160A-800A

AMPERAGE	MODULES	TYPE	SUPPLIED WITH FUSES	CAT REF
160A	6	TP & N	NO	NHTPSF160
200A	6	TP & N	NO	NHTPSF200
315A	8	TP & N	NO	NHTPSF315
400A	8	TP & N	NO	NHTPSF400
630A	12	TP & N	NO	NHTPSF630
800A	12	TP & N	NO	NHTPSF800

ACCESSORIES

	DESCRIPTION	CAT REF
100A to 200A	Copper Isolator links	NHCIL3
125A to 200A	Cable Spreader Box	NHCSB3
315A & 400A	Copper Isolator links	NHCIL4
315A & 400A	Cable Spreader Box	NHCSB4
630A & 800A	Copper Isolator links	NHCIL5
630A & 800A	Cable Spreader Box	NHCSB5

For fuse types see Technical section



BUS BAR CHAMBER

AMPERAGE	MODULES	TYPE	CAT REF
400A	16	TP & N	NHSFBBC400
250A	Each	Busbar Terminal	NHSFBBTM250

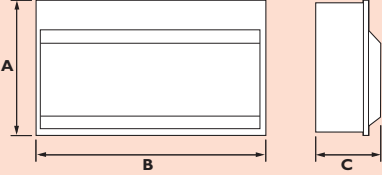
NH ISOLATOR SWITCHES IN STEEL ENCLOSURE

AMPERAGE	BOX SIZE	CAT REF
20A	1	NHSW320
32A	1	NHSW332
40A	1	NHSW340
63A	1	NHSW363
63A	2	NHSW363X
100A	2	NHSW3100
125A	1	NHSW3125

Cable spreading room is allowed for at one end only. To fit a 4 core cable at both ends an additional cable spreader box will be required.

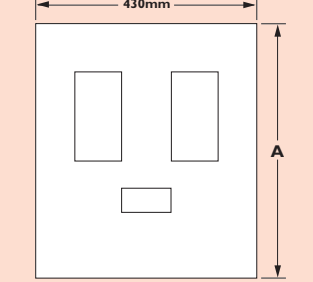
Above 22mm wide cable lugs terminal interphase barriers are required. 1 Module = 52.5mm. Contact Wylex Technical Services department for details.

SINGLE PHASE MCB DISTRIBUTION BOARDS



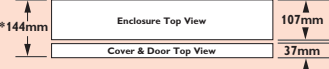
CAT REF	DIMENSIONS		
	A (mm)	B (mm)	C (mm)
NHSPN0051	230	188	113
NHSPN0081	230	242	113
NHSPN00111	230	293	113
NHSPN00141	230	343	113
NHSPN00161	230	394	113
NHSPN00191	230	394	113

THREE PHASE MCB DISTRIBUTION BOARDS AND ACCESSORY BOXES



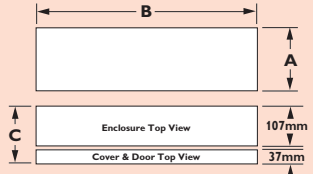
125A DISTRIBUTION BOARDS		250A DISTRIBUTION BOARDS		NHAB DIN ACCESSORY BOXES	
CAT REF	DIMENSION A (mm)	CAT REF	DIMENSION A (mm)	CAT REF	DIMENSION A (mm)
NHTN4	489	NHTN2540	650	NHEB	240
NHTN6	570	NHTN2560	815	NHEB/DIN	240
NHTN8	650	NHTN2580	815	NHAB	240
NHTN12	812	NHTN25120	895	NHAB2	387
NHTN16	894	NHTN25160	975	NHAB3	544
NHTN20	975	NHTN25200	1085	NHAB4	756
NHTN24	1136	NHTN25240	1190	NHAB5	856

Depth 165mm-all sizes



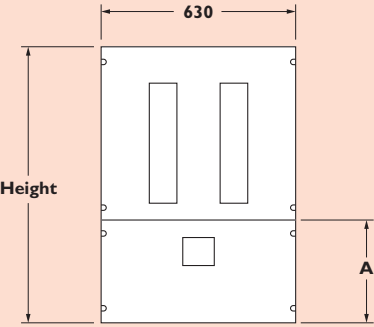
* including fixing feet which are 3.5mm high

THREE PHASE METER KITS



CAT REF	DIMENSIONS		
	A (mm)	B (mm)	C (mm)
NHTN125MP	245	430	144
NHTN250MP	245	430	144
NHTN125LP	420	860	144
NHTN250LP	735	860	144

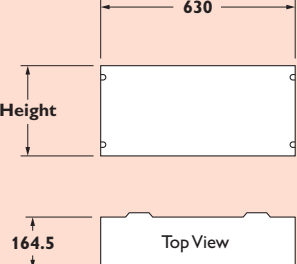
NHG 125 MCCB PANELBOARDS



Depth 165mm-all sizes

200A-250A PANEL BOARDS			
MODULAR HEIGHT	HEIGHT (mm)	A (mm)	CAT REF
17	902	420	NHPB6SW250
17	902	420	NHPB8SW250
20	1060	420	NHPB12SW250
17	902	420	NHPB6CB200
17	902	420	NHPB8CB200
20	1060	420	NHPB12CB200

400A PANEL BOARDS			
MODULAR HEIGHT	HEIGHT (mm)	A (mm)	CAT REF
20	1060	577.5	NHPB6SW400
20	1060	577.5	NHPB8SW400
23	1317	577.5	NHPB12SW400
26	1375	577.5	NHPB16SW400
20	1060	577.5	NHPB6CB400
20	1060	577.5	NHPB8CB400
23	1317	577.5	NHPB12CB400
26	1375	577.5	NHPB16CB400

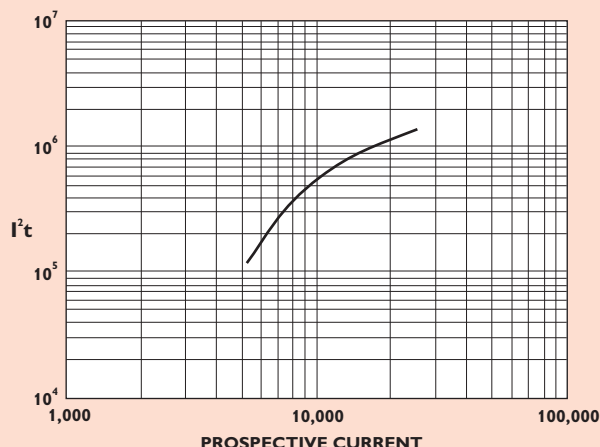


Depth 165mm-all sizes

NH125 MODULAR MCB/DIN ENCLOSURES			
MODULAR HEIGHT	HEIGHT (mm)	CAT REF	
4	210	TO ORDER	
8	420	TO ORDER	

NH 125 G FRAME METER PACKS			
CAT REF	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)
NHG250MP	210	630	165
NHG400MP	210	630	165

NHG MCCBs TECHNICAL SPECIFICATION



NHG MCCB SPECIFICATION

• Specification	BSEN60947-2
• Current Range	16 – 125A
• Ue Rated Operation Voltage	240V SP 415V TP
• Ui Rated Insulation Voltage	500V AC
• Rated Frequency	50/60Hz
• Release	Thermal Magnetic
• Adjustment	None
• Ambient Range	-20°C to 55°C
• Humidity Range	0 – 90%
• Weight	SP - 0.4kg TP - 0.95kg
• Mechanical Duration	8000 operations

SHORT CIRCUIT BREAKING CAPACITY

Type	GB	GN
Ue	Icu	Icu
	SP/TP	TP
220 V	30	30
380 V	16	25
415 V	16	25

Ics = 50% Icu

INSTANTANEOUS TRIP BANDS

SP	TP
25 – 32A	400A
40 – 80A	600A
100 – 125A	600A
Non-adjustable	±10%

TERMINALS

Front-connected clamps –
25A to 125A – 70mm² cable
– 10mm strip

AUXILIARY EQUIPMENT

NHG MCCBs

Auxiliary Contact Ratings (A)

Voltage	Resistive Load (A)	Tungsten Load NC (A)	NO (A)	Inductive Load (A)
AC				
125	3	0.5	0.5	3
250	3	0.5	0.5	3
DC				
30	3	3	0.5	3
50	1	0.7	0.7	1
125	0.5	0.4	0.4	0.05

MAXIMUM EARTH LOOP IMPEDANCES FOR TRIPLE POLE MCCBS Zs (ohms) for Uo = 240V~

Current Rating (A)	16/25	32	40	50	63	80	100	125
0.4 Seconds Disconnection Time	0.17Ω	0.17Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω
5.00 Seconds Disconnection Time	0.96Ω	0.75Ω	0.60Ω	0.48Ω	0.38Ω	0.30Ω	0.24Ω	0.19Ω

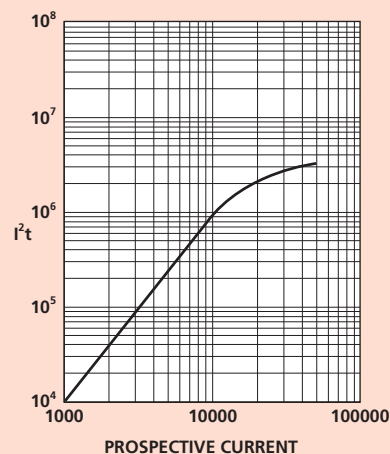
MAXIMUM EARTH LOOP IMPEDANCES FOR SINGLE POLE MCCBS Zs (ohms) for Uo = 240V~

Current Rating (A)	16/25	32	40	50	63	80	100	125
0.4 Seconds Disconnection Time	0.43Ω	0.43Ω	0.27Ω	0.27Ω	0.27Ω	0.27Ω	0.17Ω	0.17Ω
5.00 Seconds Disconnection Time	0.96Ω	0.75Ω	0.60Ω	0.48Ω	0.38Ω	0.30Ω	0.24Ω	0.19Ω

NHJ FRAME MCCBs TECHNICAL SPECIFICATION

NHJ FRAME SPECIFICATION

• Specification	BSEN60947-2
• Current Range	16 – 200A
• Ue Rated Operation Voltage	240V SP 415V TP
• Ui Rated Insulation Voltage	660V AC
• Rated Frequency	50/60Hz
• Release	Thermal Magnetic
• Thermal Adjustment	0.7 - 1.0 x Rated Current
• Instantaneous Adjustment	Non - Adjustable
• Short Circuit Breaking Capacity	Icu at 415V = 25kA, Ics =75% Icu
• Ambient Range	-20°C to 55°C
• Humidity Range	0 – 90%
• Weight	SP - 0.7kg TP - 1.8kg TP & Sw N - 2.4kg



OPTIONS

- Padlocking
- Terminal Shrouds

SHORT CIRCUIT BREAKING CAPACITY

Ue	Icu
220V	50kA
380V	32kA
415V	25kA

Ics = 75% Icu

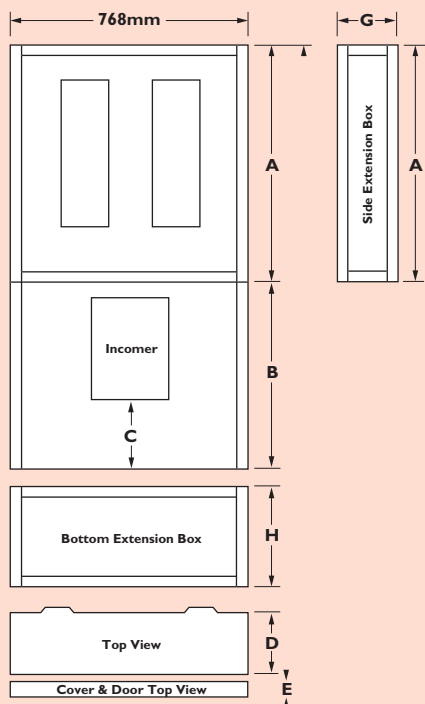
INSTANTANEOUS TRIP BANDS

25 – 63A	400A
80 – 125A	800A
160 – 200A	1600A

TERMINALS

Front-connected clamps –
25A to 200A – 120mm² solid /150mm² stranded

J FRAME DIMENSIONS



400A

	4 WAY (mm)	8 WAY (mm)	12 WAY (mm)	16 WAY (mm)
A Out Going Height	576	768	960	1162
B Incomer Height	768	768	768	768
C Cabling Room	460	460	460	460
D Depth	265	265	265	265
E Depth of Door	32	32	32	32

630A

	4 WAY (mm)	8 WAY (mm)	12 WAY (mm)	16 WAY (mm)
A Out Going Height	576	768	960	1162
B Incomer Height	768	768	768	768
C Cabling Room	460	460	460	460
D Depth	265	265	265	265
E Depth of Door	32	32	32	32

800A

	4 WAY (mm)	8 WAY (mm)	12 WAY (mm)	16 WAY (mm)
A Out Going Height	576	768	960	1162
B Incomer Height	960	960	960	960
C Cabling Room	440	440	440	440
D Depth	265	265	265	265
E Depth of Door	32	32	32	32

SIDE EXTENSION BOXES

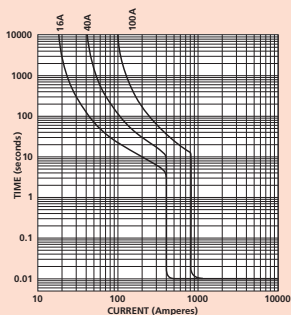
A Out Going Height	576	768	960	1162
G Width	288	288	288	288
D Depth	265	265	265	265

BOTTOM EXTENSION BOXES

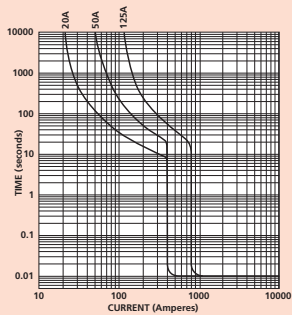
H Height (3 Mod)	576	576	576	576
D Depth	265	265	265	265

J FRAME MCCBs - TYPICAL TIME/CURRENT CHARACTERISTICS

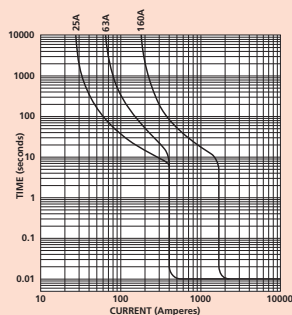
J 16-100 AMP



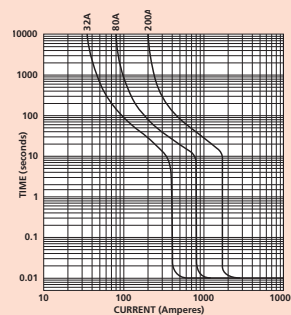
J 20-125 AMP



J 25-160 AMP



J 32-200 AMP



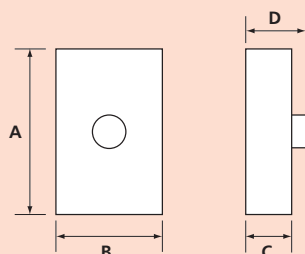
WYLEX NH J FRAME MAXIMUM EARTH LOOP IMPEDANCES Zs (ohms) for Uo = 240V~

Current Rating (A)	16/20/25	32	40	50	63	80	100	125	160	200
0.4 Seconds Disconnection Time	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.250Ω	0.250Ω	0.250Ω	0.125Ω	0.125Ω
5.00 Seconds Disconnection Time	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.250Ω	0.250Ω	0.250Ω	0.125Ω	0.125Ω

SWITCH FUSE COMBINATION UNITS - TECHNICAL INFORMATION

Sheet Steel Enclosure							
RATING IN AMPS	20A	32A	40A	63A	63A*	100A	125A
Rated Insulation Voltage Ui (V)	800	800	800	800	800	800	800
Dielectric Strength (kV) 50 Hz 1 min	3	3	3	3	3	3	3
Shock Resistance Uimp (kV)	8	8	8	8	8	8	8
OPERATIONAL CURRENT IE (A)							
415 V AC - AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	125
AC23A / AC23B	20	32	40	63	80	80	80
500 V AC - AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	125
AC23A / AC23B	20	32	40	40	63	63	63
690 V AC - AC20A / AC20B	20	32	40	63	80	100	125
AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	100
AC23A / AC23B	20	25	25	25	50	50	50
MOTOR POWER (KW) AC 23							
415 V AC	7.5	11	11	15	18.5	37	40
500 V AC	7.5	11	15	18.5	22	37	37
690 V AC	11	11	18.5	18.5	25	30	30
FUSE TYPES TO BS88							
OVERLOAD CAPACITY							
Fuse rating gG	20	32	40	63/40	63	100	125
Short circuit current with fuses (kA Rms)	50	50	50	20/50	50	20	15
Asymmetric short time rating current (kA peak)	6	6	6	9	9	9	9
Admissible short time current 1 s. (kA Rms)	1.26	1.26	1.26	1.5	1.5	1.5	1.5
MAKING & BREAKING CHARACTERISTICS							
Breaking capacity (A Rms) 415 V AC 23 A	160	256	320	504	504	640	640
Making capacity (A Rms) 415 V AC 23 A	200	320	400	630	630	800	800
WITHSTAND							
Mechanical (number of operations) x 1000	100	100	100	100	30	30	30
Electrical (number of operations at 415V AC 23A) x 1000	3	3	3	3	1.5	1.5	1.5
CONNECTION							
Maximum Cu cable section (mm²) lth using stranded cable (mm²)	16	16	16	16	50	50	50
WEIGHT (KG)							
3 pole	2.00	2.00	2.00	2.00	2.50	2.50	2.50
4 pole	2.00	2.00	2.00	2.00	2.50	2.50	2.50

SWITCH FUSE COMBINATION UNITS - DIMENSIONS



CAT REF	BOX SIZE	HEIGHT (A)	WIDTH (B)	DEPTH (C)	TOTAL DEPTH (D)
NHSW320	1	220mm	158mm	136mm	172.5mm
NHSW332	1	220mm	158mm	136mm	172.5mm
NHSW340	1	220mm	158mm	136mm	172.5mm
NHSW363	1	220mm	158mm	136mm	172.5mm
NHSW363X	2	325mm	158mm	136mm	172.5mm
NHSW3100	2	325mm	158mm	136mm	172.5mm
NHSW3125	2	325mm	158mm	136mm	172.5mm

MID approval

Under the Electricity Act 1989 all electricity meters used for billing purposes must be approved. The approval for these meters is obtained by conforming to the European Measuring Instruments Directive (MID) 2004/22/EC (replacing OFGEM approval). This directive covers a number of different Instruments that are used to measure products or services for reselling. Therefore not only does it apply to Electrical Meters but you may see MID approval on a range of items such as the charge meter in a taxi, beer and wine glasses (the volume measurement line) in a Public House or on the petrol pumps when you are filling up your vehicle.

Who should be using MID certified meters?

By Law, anyone who is taking a meter reading that is then used for billing purposes and for which they subsequently receive a payment from the user for the electricity consumed.

Some typical examples:

- A Retail shopping centre owner wants to measure the individual consumption of all the store owners in his shopping mall and send them separate invoices for the electricity that each has used to run their business.
- A Landlord who wants to measure the electricity used by tenants renting apartments in his building and then send them a bill for the electricity they have used.
- A caravan/mobile home Leisure Park wants to measure the consumption of its customers and charge them an exact amount for the electricity used at the end of their rental period.

All of these examples must have the electricity consumption reading taken from a certified MID approved meter. The MID certification validates that the meter is manufactured using quality components, assures the meter is accurate for electricity billing purposes and that it maintains this accuracy over time for consistent readings.

Standard Meters - Non MID approved

If a meter is being used purely for a "check meter reading" and not being used to resell or charge for electricity consumed, then a standard meter that is reasonably accurate may be used to measure energy used at that point in time. For example, a check meter reading is required to meet L2 Building Regulations and Chartered Institution of Building Services Engineers TM39 guide to Building Energy Metering. The reading taken is used as a 'check point' to help reduce energy consumption.

METERING - TECHNICAL DATA

Single Phase and Three Phase Measuring Devices

Direct Connected kW Meters - No external current transformers required.
Standard reading or MID calibrated options.
All meters have pulsed output for Building Management Systems. (BMS)



General Characteristics

Housing Width	2 modules DIN
Mounting	35mm DIN rail
Depth	70mm
Reference standard	EN 50470-1-3 (B), EN 62053-23-31

Operating Features

Connectivity	2
Storage of energy values and configuration	yes
Display tariffs identifier	T1 and T2

Supply

Rated control supply voltage Un	230 VAC
Operating range voltage	184 ... 276 V
Rated frequency fn	50 Hz
Rated power dissipation (max.) Pv	≤8 (0.6) VA (W)

Display (readouts)

Connection errors and phase out	-
Display type LCD - Digits	7 (1 decimal) - 6mm x 3mm
Active energy: 1 display, 7-digit	000000.0 ... 999999.9 kWh
+ display import or export (arrow)	999999.9 ... 000000.0 kWh
Reactive energy: 1 display, 7-digit	000000.0 ... 999999.9 kWh
+ display import or export (arrow)	999999.9 ... 000000.0 kWh
Instantaneous active power: 1 display, 3-digit	000 ... 999 W, kW or MW
Instantaneous reactive power: 1 display, 3-digit	000 ... 999 var, kvar or Mvar
Instantaneous tariff measurement	1 display, 1 digit T1 or T2
Display period refresh (seconds)	1

Measuring accuracy

Active energy and power	±1% (B)
Reactive energy and power	±2 %

Pulse output SO

Pulse output	yes
Pulse quantity	1000 imp/kWh
Pulse duration	30 ±2 ms
Required voltage	5 ... 230 ±5% (5 ...300) VAC (DC)
Permissible current	90 mA
Permissible current	1μA



4 modules DIN			3 modules DIN			6 modules DIN		
35mm DIN rail			35mm DIN rail			35mm DIN rail		
70mm			70mm			70mm		
EN 50470-1-3 (B) , EN 62053-23-31			EN 50470-1-3 (B) , EN 62053-23-31			EN 50470-1-3 (B) , EN 62053-23-31		
2-3-4			2			2-3-4		
yes			yes			yes		
T1 and T2			T1 and T2			T1 and T2		
230 VAC			230 VAC			230 VAC		
184 ... 276 V			184 ... 276 V			184 ... 276 V		
50 Hz			50 Hz			50 Hz		
≤8 (0.6) VA (W)			≤8 (0.6) VA (W)			≤8 (0.6) VA (W)		
PHASE Err			-			PHASE Err		
8 (1 decimal) - 6mm x 3mm			7 (1 decimal) - 6mm x 3mm			8 digits - 6mm x 3mm		
0000000.0 ... 999999.9 kWh			000000.0 ... 999999.9 kWh			000000.0 ... 999999.9 kWh		
999999.9 ... 000000.0 kWh			999999.9 ... 000000.0 kWh			999999.9 ... 000000.0 kWh		
0000000.0 ... 999999.9 kWh			000000.0 ... 999999.9 kWh			000000.0 ... 999999.9 kWh		
999999.9 ... 000000.0 kWh			999999.9 ... 000000.0 kWh			999999.9 ... 000000.0 kWh		
000 ... 999 W, kW or MW			000 ... 999 W, kW or MW			000 ... 999 W, kW or MW		
000 ... 999 var, kvar or Mvar			000 ... 999 var, kvar or Mvar			000 ... 999 var, kvar or Mvar		
1 display, 1 digit T1 or T2			1 display, 1 digit T1 or T2			1 display, 1 digit T1 or T2		
2			2			2		
±1% (B)			±1% (B)			±1% (B)		
±2 %			±2 %			±2 %		
yes			yes			yes		
500 imp/kWh			1000 imp/kWh			100 imp/kWh		
30 ±2 ms			30 ms			30 ms		
5 ... 230 ±5% (5 ...300) VAC (DC)			5 ... 230 ±5% (5 ...300) VAC (DC)			5 ... 230 ±5% (5 ...300) VAC (DC)		
90 mA			90 mA			90 mA		
1µA			1µA			1µA		



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Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Latest details can be obtained from Wylex.

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