power and signal integrity solutions

TRANSTECTOR




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The Transtector Difference

Power and Signal Integrity

Transtector Systems provides a complete systems approach for the protection of communications systems and critical electronics from lightning and power anomalies.

Our product offering includes AC, DC high speed data and signal protection, EMP, power conditioners, UPS and power distribution units, as well as accredited educational courses and consulting.

Engineering Expertise in Custom Solutions

Transtector was founded on the ability to provide **custom engineered solutions** for unique protection circumstances. Regardless of your requirements, Transtector Systems has the proven ability to design, develop and manufacture the solution.

Our engineers are industry leaders and decision makers within regulatory agencies including **IEC**, **IEEE**, **UL** and **NEC**. We continually strive to create innovative product offerings for global markets which include Telecommunications, Medical Imaging, Transportation, Energy, Security and Military.

Silicon Diode Leader

Silicon diodes provide the best protection for sensitive electronics, other technologies degrade over time and allow surges to damage equipment before reacting. For high amperage applications, Transtector also offers numerous devices with MOV back-up configurations that leverage non degrading silicon technology with robust MOV current handling capability.

Transtector's manufacturing facilities are ISO 9001:2000 and ISO 14001 certified.

Smiths Group PLC

Transtector Systems is part of Smiths Interconnect a division of Smiths Corporation PLC. The Protection group includes **PolyPhaser Corporation** a leading provider of proprietary protection for RF and data communications as well as **LEA International** whose protection products focus on MOV based systems for commercial and broadcast markets. Working across the organization, Transtector Systems is able to provide the best end-to-end power quality solutions for our customers. Additional information regarding Smiths Group can be found at ***www.smiths-group.com***.

Committed to Service

Meeting our customers' needs has always been paramount to Transtector Systems' efforts in creating highly satisfied customers. We lead the industry in on-time delivery and continually strive to engineer and manufacture power and signal integrity products that provide our customers with the highest quality solutions at competitive pricing.

Ordering is Simple

It is easy to do business with Transtector. Our technical sales representatives are available at **800.882.9110** or **208.772.8515**, and additional product information can be found online at ***www.transtector.com***. We thank you for considering Transtector and look forward to working with you on your next project.

innovative and reliable power and signal integrity solutions

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Data/Signal Surge Protection

General Overview

Transtector Systems, global end-to-end data/signal protection solutions offer designs engineered to electrical performance and safety standards:

- UL 497, 497A and 497B
- GR 1089
- IEEE 802
- IEC 61000-4-5
- EN 61000-4-5
- Motorola R-56
- RoHS
- MIL-STD 188-125

In addition to our custom designs, we offer commercial off-the-shelf products for digital and analog signals in both indoor and outdoor enclosures.

- GigE
- POE
- Ethernet
- TDM
- Digital loop
- RS232, RS422, RS485

Data/Signal Surge Protection

Cross Connect Surge Protection

DXR Series
1101-875-1
(fully loaded configuration shown)

Features

- Non degrading, quick response, silicon diode technology
- Line and load bidirectional protection
- Fused for power line cross safety
- Live monitoring for T1/E1 and DS3
- Multiple chassis available
- Front face input, output and loading
- Bracket for wall mount available
- Additional chassis available

Module Options

- Ethernet module (Part Number 1000-1194)
- T1/E1 module (Part Number 1000-1192)
- DS3 module (Part Number 1000-1193)
- GigE module (Part Number 1000-1203)

Digital Exchange Rack Chassis

(Part # 1101-875-1)

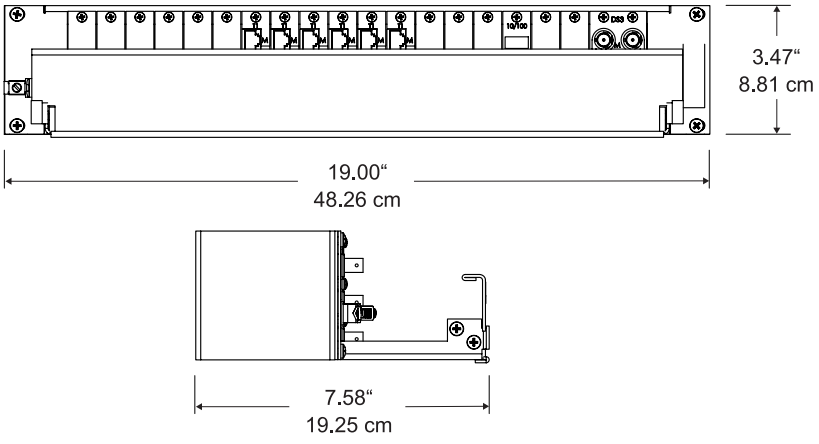
Modular, reconfigurable cross connect surge protector for T1/E1, Ethernet, GigE, and DS3 multiprotocol installations

Environmental

Enclosure Rating	Indoor
Operating Temperature	-40°C to +75°C
Humidity	99% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.5 x 19.0 x 7.6
Dimensions (HxWxD in cm)	8.9 x 48.3 x 19.3
Maximum Weight (lbs.)	3.5
Maximum Weight (kg.)	1.6



Specification Sheet: 1400-620-2

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Digital Exchange Rack Modules

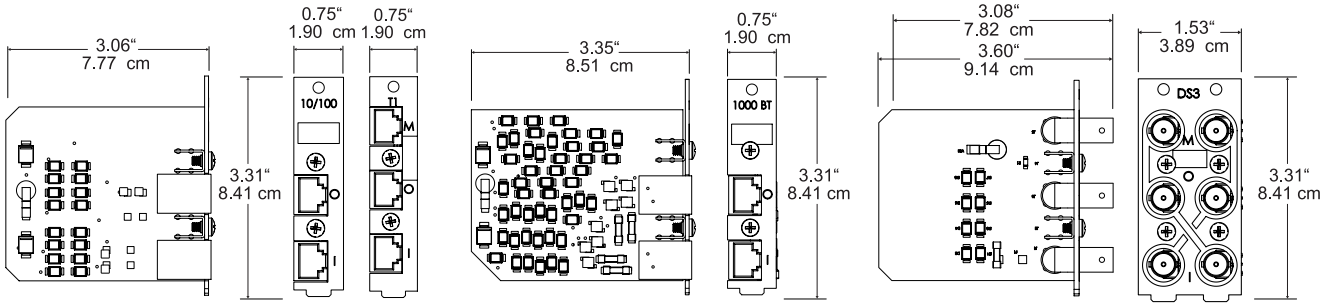
Module surge protector for indicated protocol installations used in the Digital Exchange Rack (DXR) Series Chassis (Part # 1101-875-1)

Electrical

	Ethernet Module (Part # 1000-1194)	**T1/E1 Module** (Part # 1000-1192)	**DS3 Module** (Part # 1000-1193)	**GigE Module** (Part # 1000-1203)
Data Rate	10 or 100 Mb/s	1.544 to 2.048 Mb/s	45 Mb/s	10, 100 or 1000 Mb/s
Operating Voltage	5V	3V		5V
Maximum Continuous Operating Voltage	6Vpk		5.5Vpk	6Vpk
Maximum Continuous Current	1A			
Insertion Loss	–	<-0.20dB @ 772kHz		–
Return Loss	–	<-30dB @ 772kHz		–
Isolation/Cross Talk	<-60dB @ 32MHz	<-60dB @ 772kHz		–
Impedance	85 to 115 ohms	–		85 to 115 ohms
Attenuation	<-1dB @ 16MHz	–		
Connector	RJ-45 Cat5		75ohm BNC ring bonded to ground	RJ-45 Cat5
Pins Protected	(1,2), (3,6), (4,5), (7,8) bonded to ground	(1,2), (4,5), (3,6), (7,8) bonded to ground	–	All pins
Data Voltage Protection Level 10/1000µs	<25Vpk @ 100A			
Peak Current 10/1000µs	550A			
Peak Current 8/20µs	5kA			
Response Time	<5 nanoseconds			

Mechanical

Dimensions (HxWxD in inches)	3.4 X 1.6 X 3.1	3.4 X 1.6 X 3.6	3.4 X 1.6 X 3.1
Dimensions (HxWxD in cm)	8.5 x 3.9 x 7.8	8.5 x 3.9 x 9.2	8.5 x 3.9 x 7.8



Ethernet and T1/E1 Module **DS3 Module** **GigE Module**

Data/Signal Surge Protection

Rack Mount Cross Connect Data/Signal Protection

DPR Series
1000-1206
(fully loaded configuration shown)

Features

- 14 gauge aluminum with black powder coat finish
- 1RU holds up to 16 signal line protection modules
- Adjustable to fit 19" or 23" racks

DPR Modules
(wall, rack or DIN rail mountable)

Features

- Non degrading, low clamping, leadless silicon diode protection (All modules except Ethernet module, part number 1101-911)
- Line and load bidirectional protection (All modules except Ethernet module, part number 1101-911)
- High surge current capacity (Ethernet module only, part number 1101-911)

Data Protection Rack Chassis

(Part # 1000-1206)

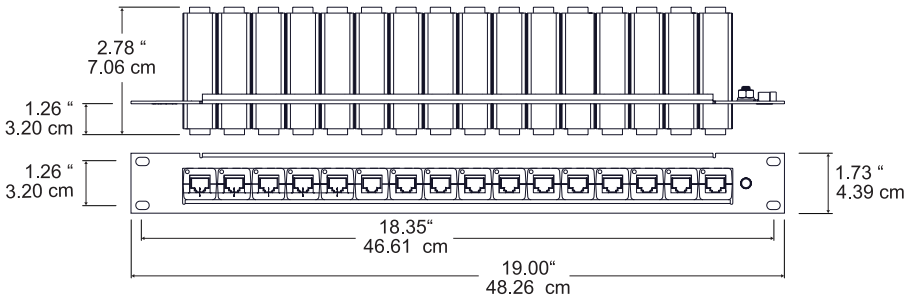
Modular, reconfigurable, rack mount, cross connect surge protection unit for DSL, T1/E1, Ethernet, GigE and 60V POE

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-40°C to +75°C
Humidity	99% non condensing

Mechanical

	Chassis	Module
Dimensions (HxWxD in inches)	1.8 x 19.0 x 2.8	1.2 X 1.0 X 3.7
Dimensions (HxWxD in cm)	4.6 x 48.3 x 7.2	3.0 x 2.6 x 9.4
Maximum Weight (lbs.)	5.2	0.2
Maximum Weight (kg.)	2.4	0.1



Specification Sheet: 1400-594

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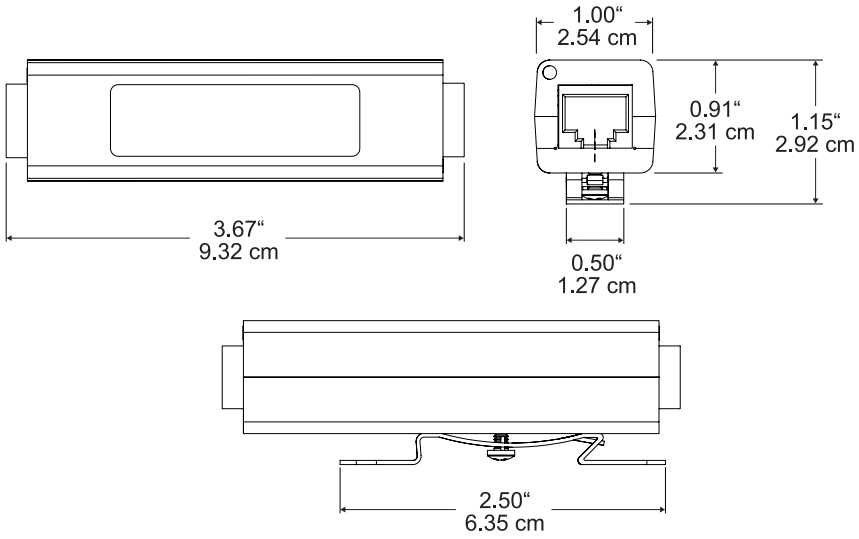
Data Protection Rack Modules

DPR individual modules are designed as standalone units that are an inline component and can be mounted to the wall, in a chassis or on a DIN rail

Electrical

	DSL (Part # 1101-829)	**T1/E1** (Part # 1101-830)	**Ethernet** (Part # 1101-828)	**Ethernet II** (Part # 1101-911)	**POE** (Part # 1101-905)	**GigE** (Part # 1101-882)
Data Rate (Mb/s)	6.312	1.544/2.048	10/100			10/100/1000
Maximum Continuous Operating Voltage	5.5VDC pins (1,2) (4,5)/(3,6) (7,8) bonded to ground	6V pins (1,2) (4,5)/pins (3,6) (7,8) bonded to ground	6V pins (1,2) (3,6)/pins (4,5) (7,8) bonded to ground	6V pins (1,2) (3,6)/pins (4,5) (7,8) bonded to ground	60VDC pins (1,2) (3,6) (4,5) (7,8)	6V pins (1,2) (3,6) (4,5) (7,8)
Connector	RJ-48 Cat5	RJ-45 Cat5				
Technology	Silicon diode			Gas tube	Silicon diode	
Voltage Protection Level	100A 10/1000µs			50Vp @ 2.5kA 8/20µs	<75VDC @ 100A/VDC 10/1000µs L-N	<22VDC @100A/VDC 2/10µs L-N
Response Time	<5 nanoseconds					



Data/Signal Surge Protection

T1/E1 Silicon Equipment Protection

TSJ 48 CLT
1101-300

Features

- Non degrading, low clamping leadless silicon diode technology
- Line and load bidirectional protection
- UL 497A Listed
- 1/4-20 ground stud

Options

- Ground bus bar available for rack mounting (Part Number 1101-747)
- High surge current configuration (Part Number 1101-300-2)
- RJ-11 configuration (Part Number 1100-592)
- RJ-11 connector and high surge current configuration (Part Number 1101-740)

Specification Sheet: 1400-281

TSJ T1 Protection (Part # 1101-300)

Multi-connector, RJ-48 (RJ-45 compatible) and screw terminal, silicon diode surge protector for T1, low voltage, DC power or signal

Electrical

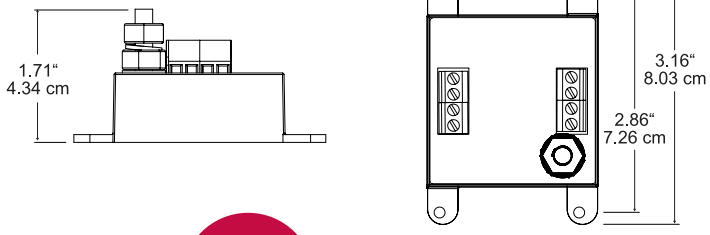
Data Rate	1.544 Mb/s
Operating Voltage	12VDC
Maximum Continuous Operating Voltage	12VAC
Maximum Continuous Current	1A
Impedance	<1ohm
Attenuation	-3db @ 90 MHZ
Connector	RJ-48 (RJ-45 compatible)
Pins Protected	1, 2, 4, 5
Data Voltage Protection Level 10/1000µs	21.5Vpk @ 194A
Data Voltage Protection Level 8/20µs	27Vpk @ 2.5kA
DC Voltage Protection Level 8/20µs	27Vpk @ 2.5kA
Peak Current 10/1000µs	194A
Peak Current 8/20µs	2.5kA
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	UL94-5V
Operating Temperature	-40°C to +85°C
Humidity	90% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.2 x 2.2 x 1.8
Dimensions (HxWxD in cm)	8.1 x 5.6 x 4.4
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



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PBM 6607
1101-162

Features

- Non degrading, low clamping, leadless silicon diode protection
- Functions as bridge clip and provides bidirectional protection

Options

- 230VDC bridge clip for 66 punchdown block (Part Number 1101-115)
- Ground bar required for installation (Part Number 1101-621)

PBM 6607 (Part # 1101-162)

45VDC silicon diode, T1, 66 block bridge clip surge protector

Electrical

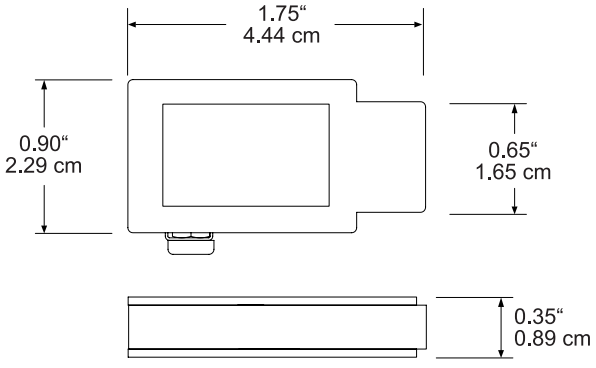
Data Rate	T1 1.544 Mb/s
Protection Level 10/1000µs	56VDC
Surge Current Rating 8/20µs	150A
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-20°C to +50°C

Mechanical

Input Connection	66 punch down block
Output Connection	66 punch down block
Dimensions (HxWxD in inches)	1.8 x 0.9 x 0.4
Dimensions (HxWxD in cm)	4.5 x 2.3 x 0.9
Maximum Weight (lbs.)	<0.1
Maximum Weight (kg.)	<0.1



Specification Sheet: 1400-344

Data/Signal Surge Protection

Power Over Ethernet Protection

ALPU ORT
1101-778

Features

- Non degrading, quick response, silicon diode technology
- Line and load bidirectional protection
- Supports MIMO/OFDM radios
- Takes protected equipment offline during extraordinary surge events
- External ground lug
- Motorola R-56 approved
- Cat5 applications

Options

- Pole mount kit (Part Number 1000-1164)
- Available NEMA 4X metal enclosure (Part Number 1101-926)

Specification Sheet: 1400-550

ALPU ORT (Part # 1101-778)

Outdoor Cat5, 48VDC, 110 punch down block, GigE power over Ethernet protector, supports point to point and point to multi point radios

Electrical

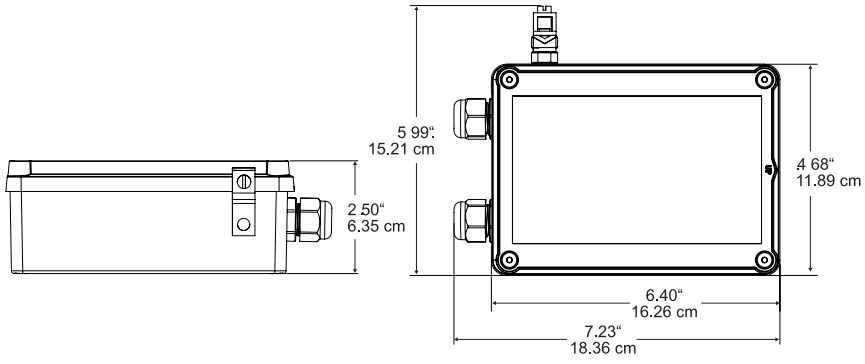
Data Rate	1000Mb/s
Operating Voltage	48VDC on all wires
Maximum Continuous Operating Voltage	90VDC all wires
Maximum Continuous Current	1A
Connector	110 IDC punch down block
Pins Protected	8 wires protected L-L, L-G
Voltage Protection Level 10/1000µs	130Vpk @150A
Voltage Protection Level 8/20µs	152Vpk @1.5kA
Peak Current 10/1000µs	150A
Peak Current 8/20µs	1.5kA
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	NEMA 3R/UL94-5V
Operating Temperature	-40°C to +80°C
Humidity	100% non condensing

Mechanical

Dimensions (HxWxD in inches)	7.3 x 4.7 x 2.5
Dimensions (HxWxD in cm)	18.4 x 11.9 x 6.4
Maximum Weight (lbs.)	1.6
Maximum Weight (kg.)	0.7



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ALPU ALVR
1101-640

Features

- Non degrading, quick response, silicon diode technology
- Line and load bidirectional protection
- Protection from power line cross, sneak current and over voltage
- External ground lug
- Cat5 applications
- UL497 Listed

Options

- Pole mount kit
  (Part Number 1000-1164)

Specification Sheet: 1400-446

ALPU ALVR (Part # 1101-640)

Outdoor Cat5, 55VDC, 110 punch down block power over Ethernet protector, supports point to point and point to multipoint radios

Electrical

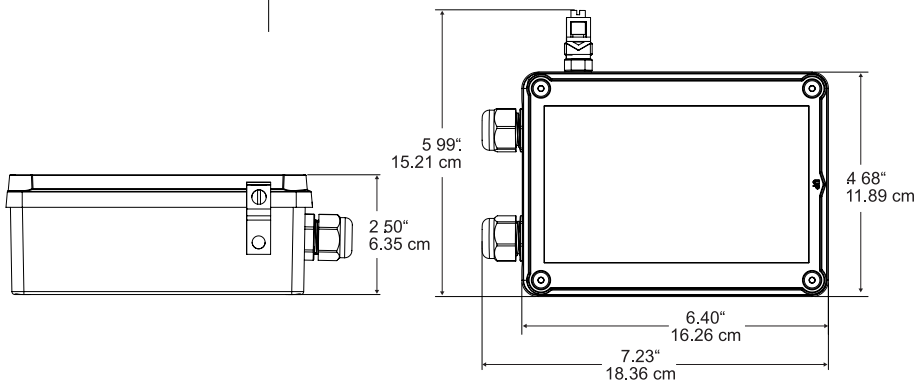
Data Rate	100Mb/s
Operating Voltage	55VDC all wires
Maximum Continuous Operating Voltage	90VDC
Maximum Continuous Current	1A
Connector	110 IDC punch down block
Pins Protected	(10 wires total) 2ea. +VDC and -VDC; transmit +/-pair; receive +/- pair; LED signal; reset
Voltage Protection Level 10/1000µs	130Vpk @150A
Voltage Protection Level 8/20µs	152Vpk @1.5kA
Peak Current 10/1000µs	150Apk
Peak Current 8/20µs	1.5kApk
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	NEMA 3R/UL94-5V
Operating Temperature	-40°C to +85°C

Mechanical

Dimensions (HxWxD in inches)	7.3 x 4.7 x 2.5
Dimensions (HxWxD in cm)	18.4 x 11.9 x 6.4
Maximum Weight (lbs.)	1.7
Maximum Weight (kg.)	0.8



Data/Signal Surge Protection

Power Over Ethernet Protection

ALPU TSU
1101-656

Features

- Non degrading, quick response, silicon diode technology
- Line and load bidirectional protection
- Supports MIMO/OFDM radios
- Takes protected equipment offline during extraordinary surge events
- External ground lug
- Cat5 applications

Options

- Pole mount kit
  (Part Number 1000-1164)

ALPU TSU (Part # 1101-656)

Outdoor RJ-45, Cat5e, 24/48VDC, power over Ethernet protector, supports point to point and point to multimedia point radios

Electrical

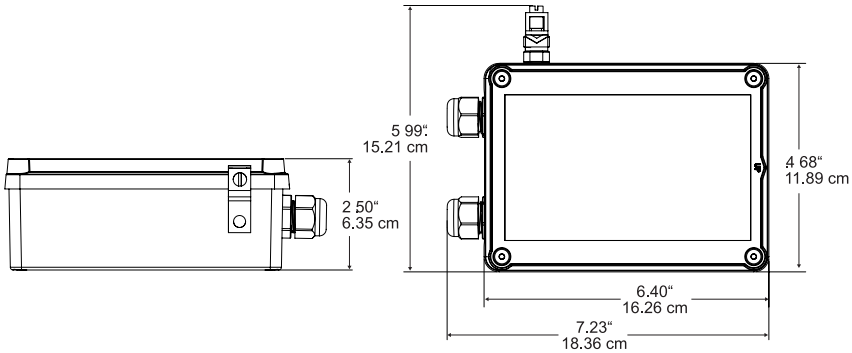
Data Rate	100Mb/s
Operating Voltage	DC 48VDC data
Maximum Continuous Operating Voltage	DC 55VDC and data 14VDC
Maximum Continuous Current	1A
Connector	Screw-terminal and RJ-45
Pins Protected	RJ-45 data pins (1,2), (3,6) and DC pins (4,5), (7,8)
Voltage Protection Level 10/1000µs	DC @ 200A 86Vpk and data @ 200A 21.5Vpk
Voltage Protection Level 8/20µs	DC @ 2.5kA 108Vpk and data @ 2.5kA 27Vpk
Peak Current 10/1000µs	2.5kA
Peak Current 8/20µs	200A
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	NEMA 3R/UL94-5V
Operating Temperature	-40°C to +80°C
Humidity	99% non condensing

Mechanical

Dimensions (HxWxD in inches)	7.3 x 4.7 x 2.5
Dimensions (HxWxD in cm)	18.4 x 11.9 x 6.4
Maximum Weight (lbs.)	1.5
Maximum Weight (kg.)	0.7



Specification Sheet: 1400-458

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ALPU POE 06V
1101-873

Features

- Compact design
- 1/4-20 ground stud

Options

- Available in 60V POE configuration (Part Number 1101-897)
- Available in 90V POE configuration (Part Number 1101-898)
- Available in metal enclosures
- Pole mount kit (Part Number 1000-1164)

ALPU POE Series (Part # 1101-873)

Compact outdoor Cat5, RJ-45, power over Ethernet protector, supports point to point and point to multi point radios

Electrical

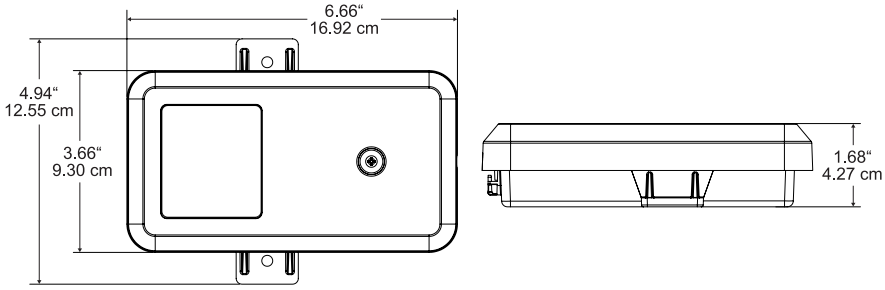
Data Rate	100Mb/s
Operating Voltage	5V on pins (1, 2), (3, 6) and 48VDC on pins (4,5), (7,8)
Maximum Continuous Operating Voltage	6V on pins (1, 2), (3, 6) and 60VDC on pins (4,5), (7,8)
Maximum Continuous Current	1A
Isolation/Cross Talk	<-60dB @ 32 MHz
Impedance	85 to 115ohms
Attenuation	<-1dB @ 16MHz
Connector	RJ-45 Cat5
Pins Protected	All pins protected
Data Voltage Protection Level 10/1000µs	<25Vpk @ 100A (1,2), (3,6)
DC Voltage Protection Level 10/1000µs	<75V peak on pins (4,5), (7,8)
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-40°C to +80°C
Humidity	99% non condensing

Mechanical

Dimensions (HxWxD in inches)	6.7 x 5.0 x 1.7
Dimensions (HxWxD in cm)	17.0 x 12.6 x 4.3
Maximum Weight (lbs.)	0.5
Maximum Weight (kg.)	0.2



Specification Sheet: 1400-616

Data/Signal Surge Protection

Power Over Ethernet Protection

TSJ POE 48
1101-693

Features

- Nondegrading, low clamping leadless silicon diode technology
- Line and load bidirectional protection
- 1/4-20 ground stud

Options

- 24VDC POE configuration (Part Number 1101-692)
- Ground bus bar for rack mounting (Part Number 1101-747)

Specification Sheet: 1400-489

TSJ POE Protection (Part # 1101-693)

Compact, RJ-45 Cat5, 10/100Base-T, power over Ethernet surge protector

Electrical

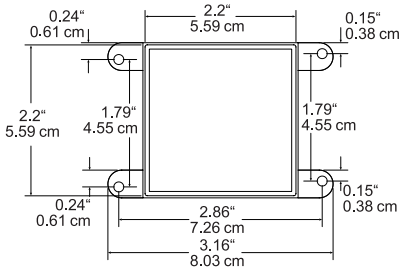
Data Rate	100Mb/s
Operating Voltage	12VDC on pins (1, 2), (3, 6) and 48VDC on pins (4, 5), (7, 8)
Maximum Continuous Operating Voltage	14VDC on pins (1, 2), (3, 6) and 58VDC on pins (4, 5), (7, 8)
Maximum Continuous Current	1A
Connector	RJ-45 Cat5
Pins Protected	Data on pins (1, 2), (3, 6) and DC on pins (4, 5), (7, 8)
Data Voltage Protection Level 10/1000µs	25Vpk @ 100A
Data Voltage Protection Level 8/20µs	27Vpk @ 2.5kA
DC Voltage Protection Level 10/1000µs	100Vpk @ 100A
DC Voltage Protection Level 8/20µs	108Vpk @ 2.5kA
Peak Current 10/1000µs	200A
Peak Current 8/20µs	2.5kA
Response Time	<5 nanoseconds

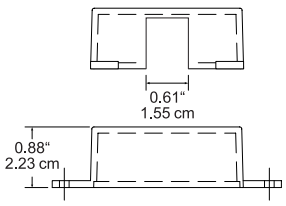
Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-40°C to +85°C
Humidity	99% non condensing

Mechanical

Dimensions (HxWxD in inches)	2.2 x 3.2 x 0.9
Dimensions (HxWxD in cm)	5.6 x 8.1 x 2.3
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1





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ALPU Gigabit
1101-923

Features

- Non degrading, fast response, silicon diode technology
- Line and load bidirectional protection
- Supports MIMO/OFDM radios
- Takes protected equipment offline during extraordinary surge events
- External ground lug

Options

- Multiple mounting options
- Available NEMA 3R metal enclosure
- Pole mount kit (Part Number 1000-1164)

ALPU Gigabit (Part # 1101-923)

Compact outdoor Cat5e, RJ-45, 1000BT Gigabit Ethernet protector, supports point to point and point to multi point radio

Electrical

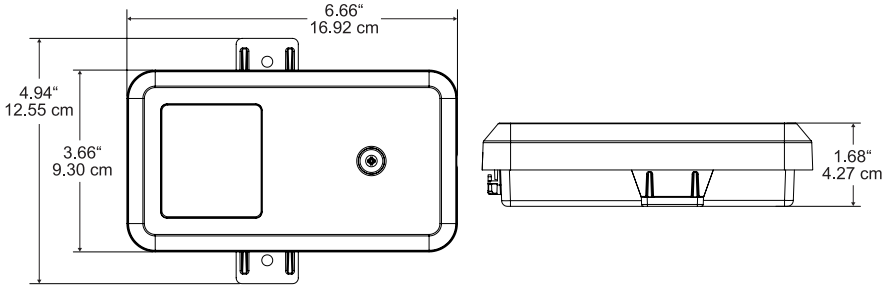
Data Rate	1000Mb/s
Operating Voltage	3.3Vpk
Maximum Continuous Operating Voltage	6Vpk
Connector	RJ-45 Cat5e shielded 100ohm
Pins Protected	(1,2) (3,6) (4,5) and (7,8) pass through
Impedance	85 to 115ohm
Frame Transmission	100% Tramsmission @ 1000Mb/s
Surge Suppression	<25Vpk @ 100A 10/1000µs

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-40°C to +80°C
Humidity	99% non condensing

Mechanical

Dimensions (HxWxD in inches)	6.4 x 4.7 x 2.5
Dimensions (HxWxD in cm)	16.3 x 11.9 x 6.4
Maximum Weight (lbs.)	0.5
Maximum Weight (kg.)	0.3



Specification Sheet: 1400-616-1

Data/Signal Surge Protection

Ethernet Surge Protection

TSJ 10/100BT
1101-620

Features

- Non degrading, low clamping leadless silicon diode technology
- Line and load bidirectional protection
- 1/4-20 ground stud

Options

- Ground bus bar for rack mounting (Part Number 1101-747)

TSJ Ethernet Protection (Part # 1101-620)

Compact RJ-45, Cat5, 10/100 Base-T, silicon diode surge protector

Electrical

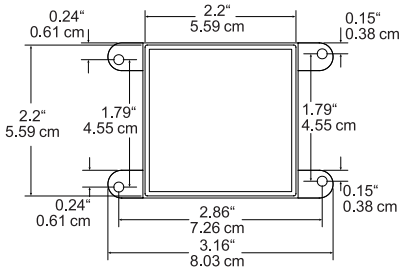
Data Rate	100Mb/s
Operating Voltage	12VDC
Maximum Continuous Operating Voltage	14VDC on each pin
Maximum Continuous Current	1A
Attenuation	3db @ 90MHz
Connector	RJ-45 Cat5
Pins Protected	All pins protected
Data Voltage Protection Level 10/1000µs	25Vpk @ 100A
Data Voltage Protection Level 8/20µs	27Vpk @ 2.5kA
Peak Current 10/1000µs	200A
Peak Current 8/20µs	2.5kA
Response Time	<5 nanoseconds

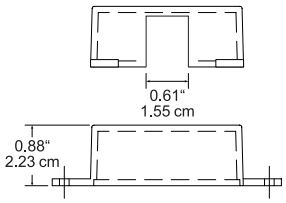
Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-40°C to +85°C
Humidity	90% non condensing

Mechanical

Dimensions (HxWxD in inches)	2.2 x 3.2 x 0.9
Dimensions (HxWxD in cm)	5.6 x 8.1 x 2.3
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1





Specification Sheet: 1400-432

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TCP CCTV MF
1101-810

Features

- Non degrading, low clamping, leadless silicon diode protection
- Line and load bidirectional protection
- 12" (30.5cm) long 16 AWG ground
- Protects both center conductors and shielded circuits
- Continues to pass signal or power if supression fails

Options

- 132A, female to female connector (Part Number 1102-001-8)
- 26A, BNC connector (Part Number 1102-001-21)
- 20kA, female to female with male adapter (Part Number 1102-001-49)

CCTV BNC (Part # 1101-810)

10VDC silicon diode, BNC, coaxial surge protector

Electrical

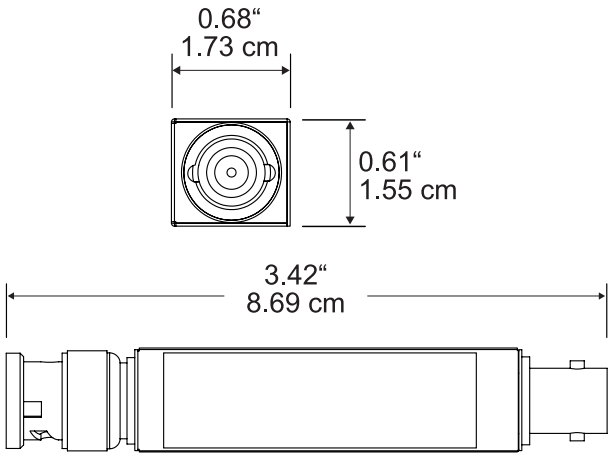
Maximum Continuous Operating Voltage	10Vpk
Protection Level 10/1000µs	20V @ 100A
Protection Level 8/20µs	20V @ 500A
Response Time	<1 nanosecond

Environmental

Operating Temperature	-20°C to +65°C
Humidity	90% non condensing

Mechanical

Input Connection	BNC male
Output Connection	BNC female
Dimensions (HxWxD in inches)	3.5 x 0.7 x 0.7
Dimensions (HxWxD in cm)	8.7 x 1.8 x 1.6
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Specification Sheet: 1400-577

Data/Signal Surge Protection

12VDC Silicon Equipment Protection

DLP 9
1102-001-22

Features

- Non degrading, low clamping, leadless silicon protection
- Line and load bidirectional protection
- Optimized for RS232
- Separate ground wire
- All pins protected

Options

- 15 pin D-sub configuration (Part Number 1102-001-23)
- 25 pin D-sub configuration (Part Number 1102-001-24)

Digital Loop Protector (Part # 1102-001-22)

12VDC silicon, DB9 equipment surge protector

Electrical

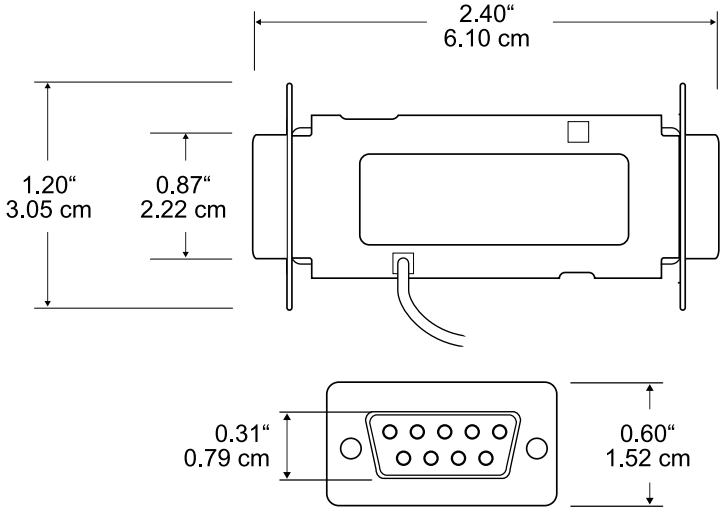
Maximum Continuous Operating Voltage	14VDC
Protection Level 10/1000µs	18Vpk @ 60A
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-30°C to +65°C

Mechanical

Input Connection	DB9 male
Output Connection	DB9 female
Dimensions (HxWxD in inches)	2.4 x 1.2 x 0.6
Dimensions (HxWxD in cm)	6.1 x 3.1 x 1.6
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Installation Guide: 1200-134

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CCTV-PTZ
1101-607

Features

- Non degrading, low clamping, leadless silicon diode DC protection
- Line and load bidirectional protection
- Two 22-16 AWG screw terminal pairs for grounding

Options

- 24V, 190A configuration (Part Number 1101-613)

Specification Sheet: 1400-411

CCTV Pan/Tilt/Zoom (Part # 1101-607)

Silicon diode surge protector for one coax, one 24VDC and one RS232, RS422 or RS485 line

Electrical

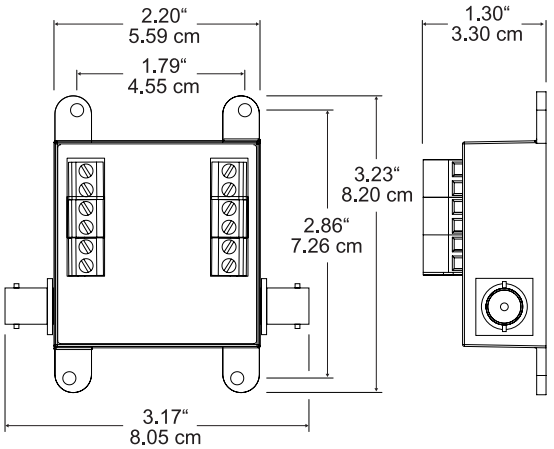
Coax Maximum Continuous Operating Voltage	12VDC tip to ring and 40VDC ring to ground
Coax Surge Current Rating 10/1000µs	140A
DC Maximum Continuous Operating Voltage	40VDC
Surge Current Rating 10/1000µs	150A
Input Connection	BNC male
Output Connection	BNC male
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-40°C to +65°C
Humidity	90% non condensing

Mechanical

Input Connection	Two position screw terminal (22-16AWG)
Output Connection	Two position screw terminal (22-16AWG)
Dimensions (HxWxD in inches)	3.3 x 2.2 x 1.3
Dimensions (HxWxD in cm)	8.2 x 5.6 x 3.3
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Data/Signal Surge Protection

15VDC Silicon Equipment Protection

VPR 30
1101-726

Features

- Leadless, non degrading, low clamping, silicon diode technology
- Line and load bidirectional protection
- UL 1449 Recognized
- Motorola R-56 approved

Options

- 15 pin D-shell connector configuration (Part Number 1101-748)

Ribbon Cable Protector (Part # 1101-726)

15VDC silicon diode, 10 pin amp latch, ribbon cable equipment protector for lightning strike, electrostatic discharge and power line cross

Electrical

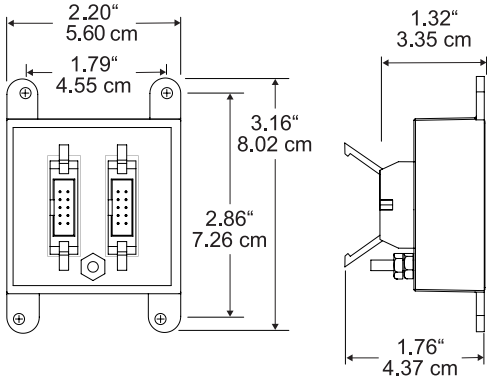
Service Voltage	+/-15VDC
Maximum Continuous Operating Voltage	+/-28VDC
Data Line Maximum Amperage	2A
Protection Level 10/1000µs	60V @ 100A
Protection Level 8/20µs	70VDC @ 2.5kA
Surge Current Rating 8/20µs	2.5kA
Electrostatic Discharge	15kV
Response Time	<1 nanosecond

Environmental

Enclosure Rating	94V-0
Operating Temperature	-40°C to +75°C
Humidity	90% non condensing

Mechanical

Input Connection	Ribbon cable amp latch connector (10 male pins)
Output Connection	Ribbon cable amp latch connector (10 male pins)
Dimensions (HxWxD in inches)	3.2 x 2.2 x 1.4
Dimensions (HxWxD in cm)	8.1 x 5.6 x 3.4
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Specification Sheet: 1400-516

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3W3 48VDC 69
1101-616

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Line and load bidirectional protection
- Normal and common mode suppressor function

3W3 48 (Part # 1101-616)

48VDC silicon diode, 3W3 equipment surge suppressor

Electrical

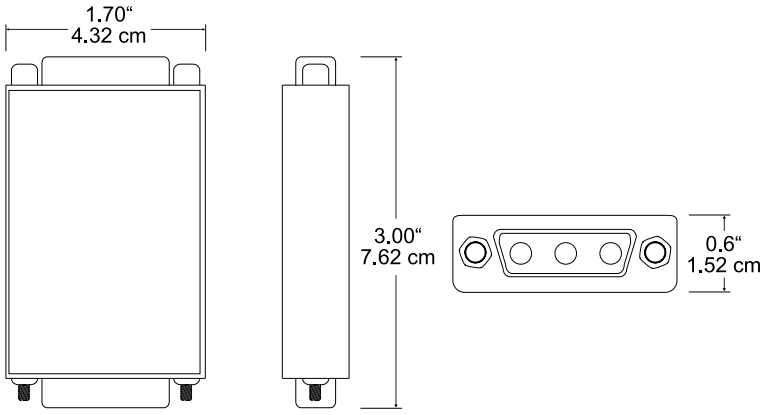
Maximum Continuous Operating Voltage	65VDC
Protection Level 10/1000µs	97V @ 154A
Protection Level 8/20µs	149V @1.5kA L-L, L-G
Surge Current Rating 8/20µs	1.5kA
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-30°C to +65°C
Humidity	90% non condensing

Mechanical

Input Connection	20A 3W3
Output Connection	20A 3W3
Dimensions (HxWxD in inches)	1.7 x 0.6 x 3.0
Dimensions (HxWxD in cm)	4.4 x 1.6 x 7.7



Product Data Sheet: 1452-008

Data/Signal Surge Protection

50VDC Silicon DIN Rail Equipment Protection

SXRR 50V
1101-707

Features

- Non degrading, low clamping, leadless silicon diode protection
- Line and load bidirectional protection
- Gas discharge tube back-up protection
- Suppressor status visual indication

Options

- 90VDC configuration (Part Number 1101-744)
- 120VDC configuration (Part Number 1101-764)

SXRR 50 (Part # 1101-707)

50VDC signal, silicon diode, railroad crossing equipment surge suppressor

Electrical

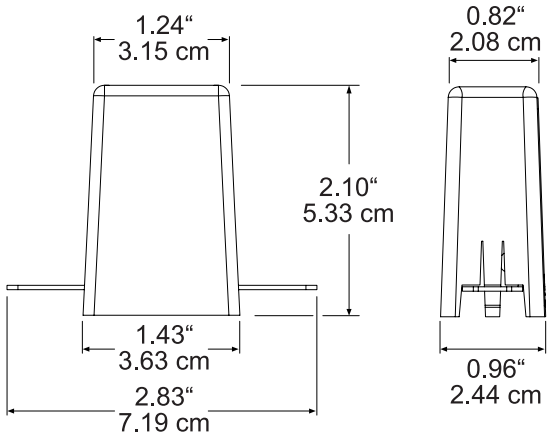
Maximum Continuous Operating Voltage	50VDC
VBR	75VDC
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	UL 94V-0
Operating Temperature	-40°C to +75°C

Mechanical

Input Connection	1/4" wide terminal clip
Output Connection	1/4" wide terminal clip
Dimensions (HxWxD in inches)	2.1 x 2.9 x 1.0
Dimensions (HxWxD in cm)	5.4 x 7.2 x 2.5
Maximum Weight (lbs.)	0.1
Maximum Weight (kg.)	<0.1



Specification Sheet: 1400-504

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DC Surge Protection

General Overview

Transtector Systems, global end-to-end DC protection solutions offer designs engineered to electrical performance and safety standards:

- UL 497, 497A and 497B
- GR 1089
- IEEE 802
- IEEE C 62.45
- IEC 61000-4-5
- EN 61000-4-5
- RoHS
- MIL-STD 188-125
- Motorola R-56

In addition to our custom designs, we offer commercial off-the-shelf products for low voltage DC, 24VDC, 48VDC and high voltage DC in indoor and outdoor enclosures, including rack mount and DIN rail.

DC Surge Protection

12VDC Silicon Equipment Protection

FSP 4001 MC
1101-372-1

Features

- Non degrading, low clamping, leadless silicon diode protection
- Line and load bidirectional protection
- Optimized for RS422, RS485 and 4-20mA loop
- Protects up to three low speed data, power signal, or three differential pair signal lines

Options

- 24VDC configuration (Part Number 1101-372-2)
- 54VDC configuration (Part Number 1101-372-3)
- 160VDC gas tube configuration (Part Number 1101-372-6)

FSP 4001 (Part # 1101-372-1)

12VDC low power signal, silicon diode, three pair, equipment surge protector

Electrical

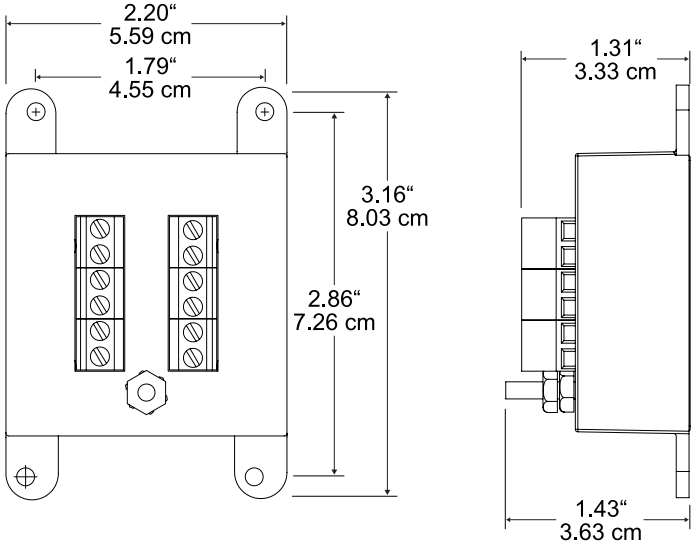
Maximum Continuous Operating Voltage	13VDC
Protection Level 10/1000µs	22V @ 200A L-L, L-G
Protection Level 8/20µs	26V @ 1.8kA L-L, L-G
Surge Current Rating 8/20µs	1.8kA
Response Time	<5 nanoseconds

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-20°C to +85°C
Humidity	90% non condensing

Mechanical

Input Connection	Six position screw terminal block
Output Connection	Six position screw terminal block
Dimensions (HxWxD in inches)	3.2 X 2.2 X 1.5
Dimensions (HxWxD in cm)	8.1 X 5.6 X 3.7
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Specification Sheet: 1400-321-1

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DRDC 24
1101-680

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Line and load bidirectional protection
- Replaceable suppression module (no rewiring required)
- Fused (6A)
- Other applications RS422, RS485 and 4-20mA current loops, low frequency data circuits
- UL 1449 Recognized

Options

- 7VDC configuration (Part Number 1101-678)
- 12VDC configuration (Part Number 1101-679)
- 70VDC configuration (Part Number 1101-724)

Specification Sheet: 1400-477

DRDC 24 (Part # 1101-680)

24VDC silicon diode, DIN rail, 28-12 AWG, equipment surge protector

Electrical

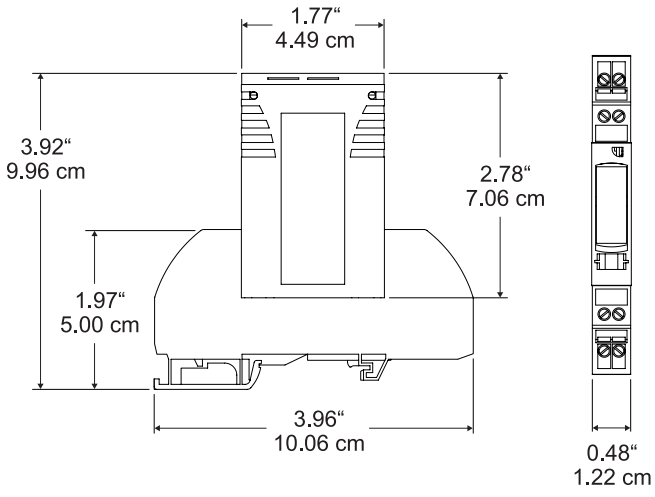
Service Voltage	24VDC
Maximum Continuous Operating Voltage	32VDC
Protection Level 10/1000µs	50VDC @ 134A
Protection Level 8/20µs	60VDC @ 1.2kA
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-40°C to +80°C
Humidity	100% non condensing

Mechanical

Input Connection	Four screw terminals
Output Connection	Four screw terminals
Dimensions (HxWxD in inches)	4.0 x 0.5 x 4.0
Dimensions (HxWxD in cm)	10.1 x 1.3 x 10.0
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



DC Surge Protection

24VDC Silicon DIN Rail Equipment Protection

DRI 24
1101-869

Features

- Non degrading, low clamping, leadless silicon diode protection
- Illuminated and remote (dry contact relay) status indication
- Line and load bidirectional protection
- Plug-in supressor module
- Protects up to four low speed data, power signal, or two different pair signal lines

Options

- 120VAC configuration (Part Number 1101-870)

DRI 24 (Part # 1101-869)

24VDC low power signal, silicon diode, DIN rail, equipment surge suppressor with visual status indication for constantly or intermittently powered devices

Electrical

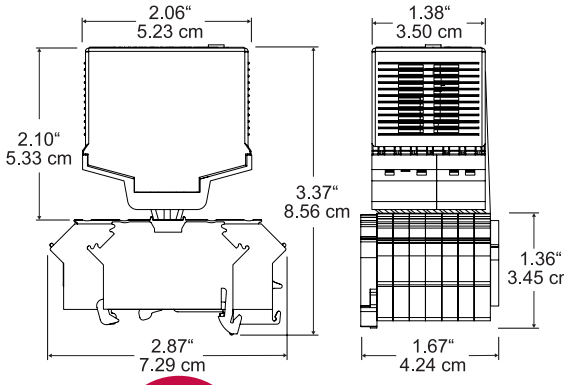
Service Voltage	24VDC
Data Rate	Up to 32Kb/s
Data Line Voltage	24VDC
Data Line Maximum Amperage	5A
Maximum Continuous Operating Voltage	34VDC
Protection Modes	L-L, L-G
Protection Level 10/1000µs	<110 Vpk @ 1kA peak
Protection Level 8/20µs	<48 Vpk @ 100A peak
Surge Current Rating 8/20µs	1.5kA
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-40°C to +85°C
Humidity	99% non condensing

Mechanical

Input Connection	Screw clamp (28-12AWG solid or multi-strand)
Output Connection	Screw clamp (28-12AWG solid or multi-strand)
Dimensions (HxWxD in inches)	3.4 x 1.7 x 2.9
Dimensions (HxWxD in cm)	8.6 x 4.3 x 7.3
Maximum Weight (lbs.)	0. 35
Maximum Weight (kg.)	0.16



Specification Sheet: 1400-613

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I²R® ICP 48VDC Silicon Diode
1101-626

Features

- Non degrading, low clamping, leadless silicon diode protection
- Parallel installation
- Replaceable suppression module (no rewiring required)
- Illuminated status indication
- 35mm DIN rail or wall mount
- UL 497B Listed

Options

- 12VDC configuration (Part Number 1101-624)
- 24VDC configuration (Part Number 1101-625)

I²R® ICP 48 (Part # 1101-626)

48VDC silicon diode, DIN rail, 28-12 AWG screw clamp, equipment surge protector

Electrical

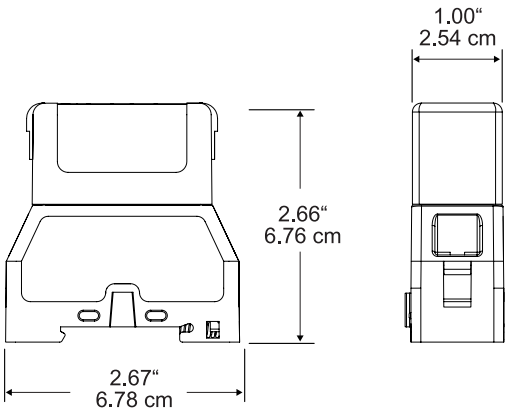
Service Voltage	48VDC
Maximum Continuous Operating Voltage	57VDC
Protection Level 10/1000µs	90VDC @ 300A
Protection Level 8/20µs	90VDC @ 500A
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-40°C to +80°C
Humidity	100% non condensing

Mechanical

Input Connection	4-14 AWG screw-terminal block
Output Connection	4-14 AWG screw-terminal block
Dimensions (HxWxD in inches)	2.7 x 1.0 x 2.7
Dimensions (HxWxD in cm)	6.8 x 2.6 x 6.8
Maximum Weight (lbs.)	0.4
Maximum Weight (kg.)	0.2



Specification Sheet: 1400-429

DC Surge Protection

48VDC Silicon Panel Protection

CB 48
1101-511

Features

- Non degrading, low clamping, leadless silicon diode protection
- Illuminated and remote (dry contact relay) status indication
- UL 1449 Recognized

Options

- 7VDC configuration (Part Number 1101-678)

CB 48 (Part # 1101-511)

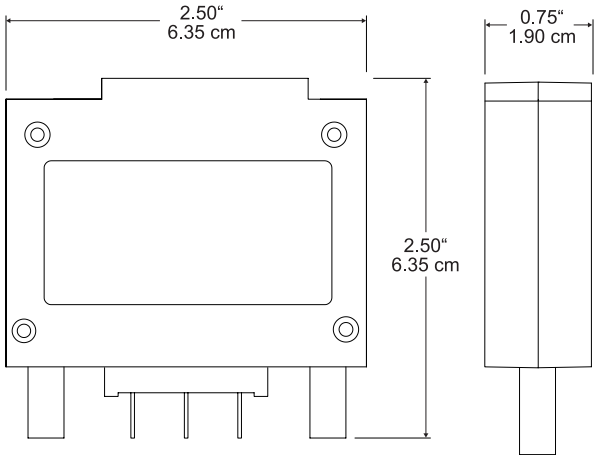
48VDC silicon diode, bullet terminal, breaker interface panel surge protector with remote monitoring

Electrical

Service Voltage	+/-48VDC
Protection Level 10/1000µs	150VDC @ 380A
Protection Level 8/20µs	150VDC @ 3kA
Response Time	<5 nanoseconds

Mechanical

Input Connection	Bullet style terminal (10-32 thread)
Output Connection	Bullet style terminal (10-32 thread)
Dimensions (HxWxD in inches)	2.5 x 0.8 x 2.5
Dimensions (HxWxD in cm)	6.4 x 1.9 x 6.4
Maximum Weight (lbs.)	0.3
Maximum Weight (kg.)	0.1



Specification Sheet: 1400-354

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AC Surge Protection

General Overview

Transtector Systems, global end-to-end AC surge suppression solutions offer designs engineered to the following electrical performance and safety standards:

- UL 1449
- GR 1089
- IEEE C 62.45
- IEC 61643
- RoHS
- MIL-STD 188-125
- Motorola R-56

In addition to our custom designs, we offer commercial off-the-shelf AC panel, equipment and signal protection in self contained enclosures, modular DIN rail, and rack mount configurations.

- 120VAC
- 120/240VAC
- 120/208VAC
- 240VAC
- 240/415VAC
- 277/480VAC
- 480VAC

AC Surge Protection

120VAC Silicon Panel Protection

I²R® ICP 120VAC Silicon Diode
1101-627

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated and remote (dry contact relay) status indication
- Line and load bidirectional protection
- UL 1449 Recognized

Options

- 240VAC silicon diode with remote monitoring (Part Number 1101-629)
- MOV configurations available visit www.transtector.com for details

I²R® Single Phase (Part # 1101-627)

120VAC single phase, silicon diode, DIN rail surge protector with status indication

Electrical

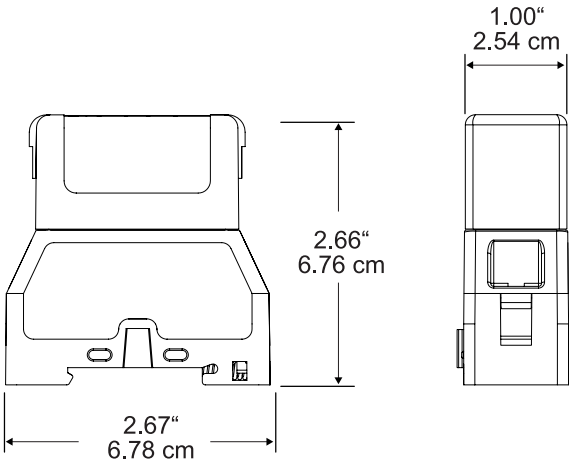
Service Voltage	120VAC
Maximum Continuous Operating Voltage	140VAC
Protection Level 8/20µs @ 6kV 500A	330Vpk
Surge Current Rating 8/20µs	7kA
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-40°C to +80°C
Humidity	100% non condensing

Mechanical

Dimensions (HxWxD in inches)	2.7 x 1.0 x 2.7
Dimensions (HxWxD in cm)	6.7 x 2.6 x 6.7
Maximum Weight (lbs.)	0.4
Maximum Weight (kg.)	0..2



Specification Sheet: 1400-429

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I²R® STORM 120V 5KA
1101-651

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated and remote (dry contact relay) status indication
- Line and load bidirectional protection
- UL 1449 Recognized

Options

- 10kA configuration (Part Number 1101-652)
- 120/240VAC split phase configuration (Part Number 1101-653)
- 240VAC 10kA configuration (Part Number 1101-654)
- 120VAC 40kA MOV configuration (Part Number 1102-014-13)
- 230VAC 40kA MOV configuration (Part Number 1102-014-7)

I²R® Storm Single Phase (Part # 1101-651)

120VAC single phase, silicon diode, panel surge suppressor with remote monitoring

Electrical

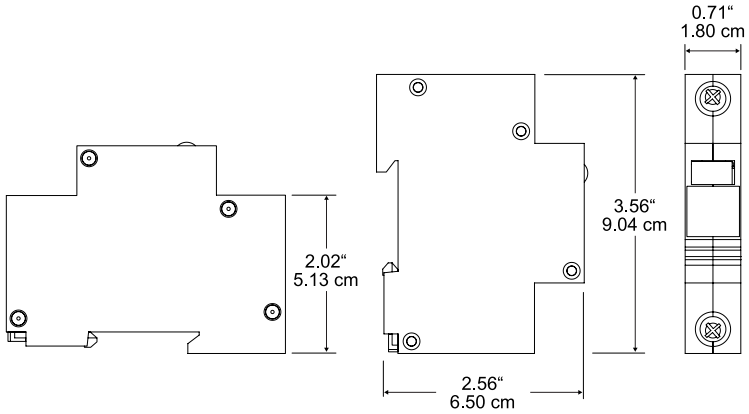
Service Voltage	120VAC
Maximum Continuous Operating Voltage	150VAC
Protection Level 8/20µs @ 6kV 500A	330Vpk L-N
Surge Current Rating 8/20µs	5kA
Response Time	<5 nanoseconds
IEEE Location Category	C Low
IEC-61643-1	Class II

Environmental

Operating Temperature	-20°C to +65°C
Humidity	90% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.6 x 0.8 x 2.1
Dimensions (HxWxD in cm)	9.1 x 1.8 x 5.2
Maximum Weight (lbs.)	0.3
Maximum Weight (kg.)	0.2



Specification Sheet: 1400-455

AC Surge Protection

120VAC Silicon Panel Protection

ACP 100 BWN3
1100-954

Features

- Compact, high current capacity, non degrading, leadless silicon diode
- Illuminated status indication
- Line and load bidirectional protection
- Fused for extraordinary surge current
- UL 1449 Recognized

Options

- Non fused UL/CSA Recognized configuration (Part Number 1100-629)
- DIN rail mount configuration (Part Number 1101-739)
- Remote status monitoring configuration (Part Number 1100-855)

ACP Fused Single Phase (Part # 1100-954)

120VAC 15A single phase, wire-in, silicon diode surge suppressor with internal fuse and status indication

Electrical

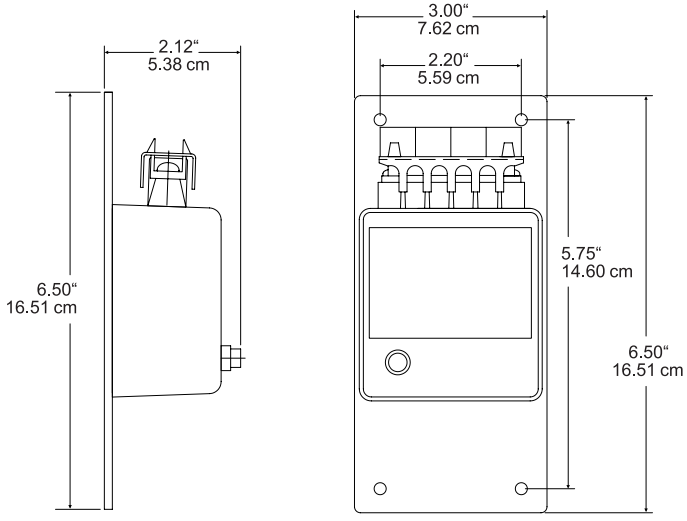
Service Voltage	120VAC
Maximum Continuous Operating Voltage	145VAC
Protection Level UL category listing	330Vpk L-N
Surge Current Rating 8/20µs	700A
Response Time	<5 nanoseconds
IEEE Location Category	A

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-30°C to +65°C
Humidity	Up to 95% non condensing

Mechanical

Dimensions (HxWxD in inches)	6.5 x 3.0 x 2.2
Dimensions (HxWxD in cm)	16.6 x 7.7 x 5.4
Maximum Weight (lbs.)	0.7
Maximum Weight (kg.)	0.3



Specification Sheet: 1400-181

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ACP 100 MN
1100-647

Features

- Compact, high current capacity, non degrading, leadless silicon diode
- Line and load bidirectional protection
- Fused for extraordinary surge current
- 6" 14 AWG leads for connection
- UL 1449 Recognized

Options

- 240VAC configuration available Visit www.transtector.com for additional information

ACP Fused Single Phase (Part # 1100-647)

120VAC 15A single phase, silicon diode surge suppressor with internal fuse and leads

Electrical

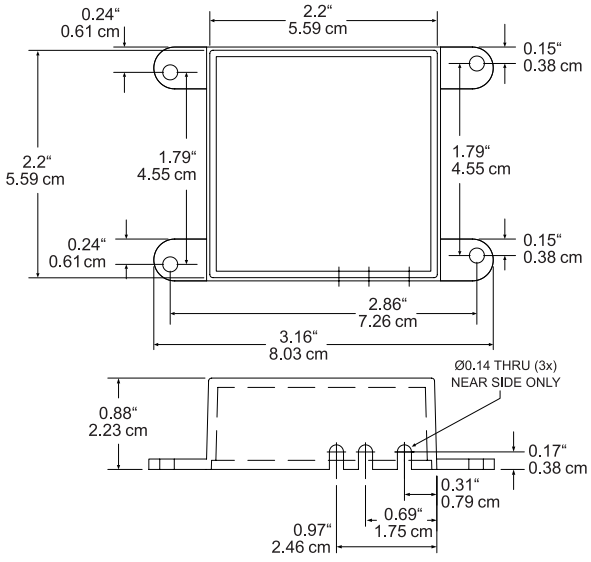
Service Voltage	120VAC
Maximum Continuous Operating Voltage	145VAC
Protection Level UL category listing	330Vpk L-N
Surge Current Rating 8/20µs	700A
Response Time	<5 nanoseconds
IEEE Location Category	A

Environmental

Enclosure Rating	UL94V-1
Operating Temperature	-40°C to +70°C
Humidity	Up to 95% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.2 x 2.2 x 0.9
Dimensions (HxWxD in cm)	8.1 x 5.6 x 2.3
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Specification Sheet: 1400-078

AC Surge Protection

120VAC Silicon DIN Rail Equipment Protection

DRI 120
1101-870

Features

- Non degrading, low clamping, leadless silicon diode protection
- Illuminated and remote (dry contact relay) status indication
- Line and load bidirectional protection
- Plug-in supressor module
- Protects up to four low speed data, power signal, or two different signal lines

Options

- 24VDC configuration (Part Number 1101-869)

Specification Sheet: 1400-613

AC Signal Protector (Part # 1101-870)

120VAC silicon diode, DIN rail equipment surge suppressor with visual status indication for constant or intermittent power devices

Electrical

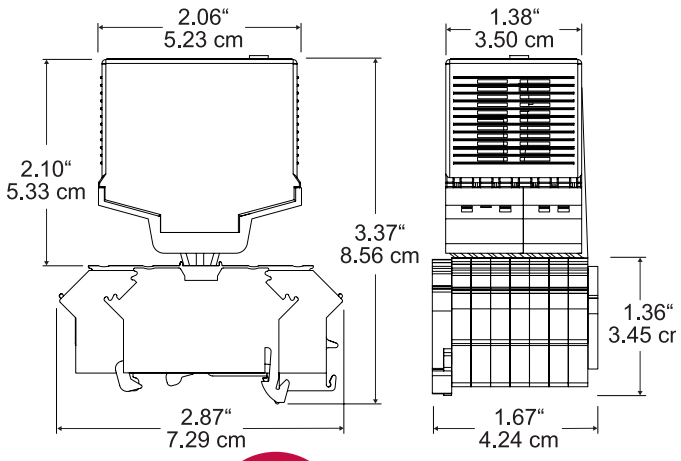
Service Voltage	110 to 125VAC
Data Rate	Up to 32kb/s
Data Line Voltage	120VAC
Data Line Maximum Amperage	5A
Maximum Continuous Operating Voltage	135VAC
Protection Modes	L-L, L-G
Protection Level 10/1000µs	<310 Vpk @ 1000 A peak
Protection Level 8/20µs	<250 Vpk @ 85A peak
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-40°C to +85°C
Humidity	99% non condensing

Mechanical

Input Connection	Wire cage clamp (28-12 AWG solid or multi-strand)
Output Connection	Wire cage clamp (28-12 AWG solid or multi-strand)
Dimensions (HxWxD in inches)	3.4 x 1.7 x 2.9
Dimensions (HxWxD in cm)	8.6 x 4.3 x 7.3
Maximum Weight (lbs.)	0.35
Maximum Weight (kg.)	0.16



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DR 120
1101-346

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- UL 1449 Recognized

DR Single Phase (Part # 1101-346)

120VAC single phase, silicon diode, DIN rail, equipment surge suppressor with remote monitoring

Electrical

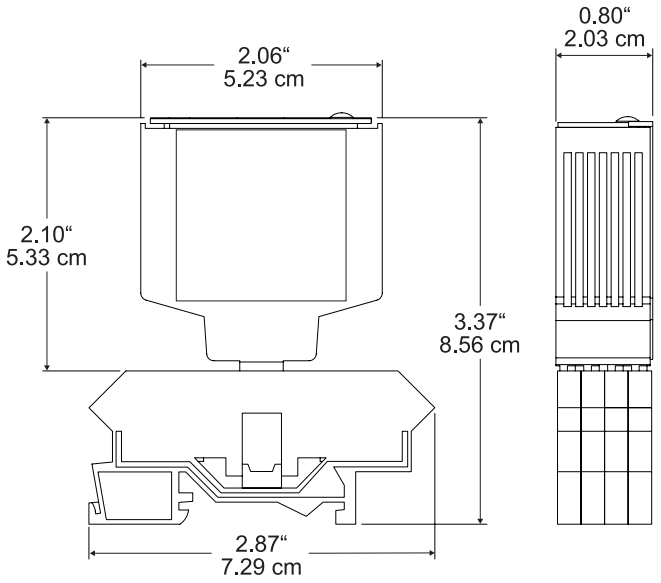
Service Voltage	120VAC
Maximum Continuous Operating Voltage	140VAC
Protection Level	330V peak
Surge Current Rating 8/20µs	1.5kA
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-40°C to +85°C
Humidity	95% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.4 x 0.8 x 2.9
Dimensions (HxWxD in cm)	8.6 x 2.1 x 7.3
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Specification Sheet: 1400-320

AC Surge Protection

120VAC Silicon Rack Mount Equipment Protection

RMP 920A
1102-007-9

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated status indication
- Line and load bidirectional protection
- NEMA 5-20 plug
- Nine 5-20 receptacles
- UL 1449 Listed
- Mounting L-brackets

Options

- Six NEMA 5-15 receptacle configuration (Part Number 1101-534)
- Six NEMA 5-20 receptacle configuration (Part Number 1101-211)
- L5-20 plug/eight NEMA 5-20 receptacle configuration (Part Number 1101-560)

RMP Single Phase (Part # 1102-007-9)

120VAC 20A single phase, silicon diode, nine NEMA 5-20 receptacles, rack mount surge suppressor

Electrical

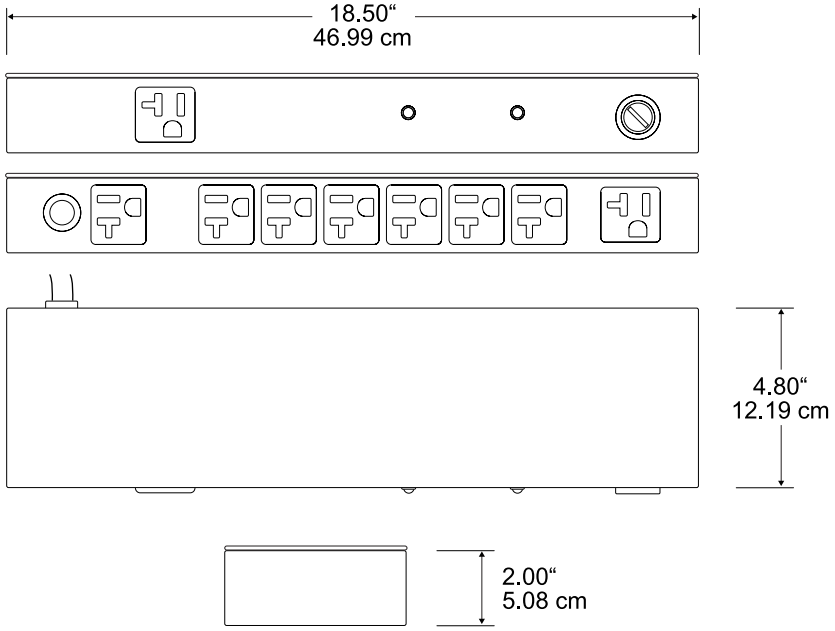
Service Voltage	120VAC
Protection Level UL category listing	330VAC L-N
Response Time	<5 nanoseconds
IEEE Location Category	A

Environmental

Operating Temperature	-30°C to +65°C

Mechanical

Dimensions (HxWxD in inches)	2.0 x 18.5 x 4.8
Dimensions (HxWxD in cm)	5.1 x 47.0 x 12.1



Installation Guide: 1200-059

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ACP 100 BLN2
1100-563

Features

- Compact, high current capacity, non degrading, leadless silicon diode
- Illuminated status indication
- Line and load bidirectional protection
- Fused for extraordinary surge current
- UL 1449 Listed

Options

- Available in non fused UL/CSA listing (Part Number 1100-545)
- Available in hardwire DIN rail configuration with remote monitoring (Part Number 1101-608)

ACP Duplex 5-15 (Part # 1100-563)

120VAC 15A single phase, plug-in, silicon diode surge suppressor with internal fuse, status indication and two NEMA 5-15 receptacles

Electrical

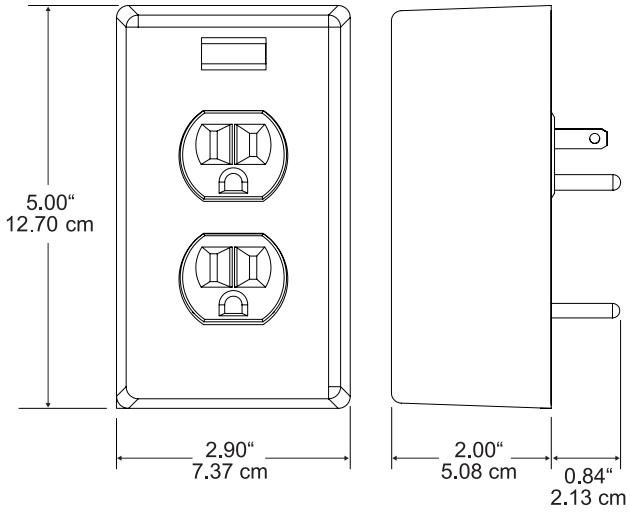
Service Voltage	120VAC
Protection Level UL category listing	330Vpk L-N
Surge Current Rating 8/20µs	700A
Response Time	<5 nanoseconds
IEEE Location Category	A

Environmental

Enclosure Rating	UL94V-0
Operating Temperature	-30°C to +65°C
Humidity	Up to 95% non condensing

Mechanical

Dimensions (HxWxD in inches)	5.0 x 2.9 x 2.0
Dimensions (HxWxD in cm)	12.7 x 7.4 x 5.1
Maximum Weight (lbs.)	1.0
Maximum Weight (kg.)	0.5



Specification Sheet: 1400-034

AC Surge Protection

120VAC Silicon Plug-In Protection

SL CSA/UL
1100-426

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- NEMA 5-15 plug
- NEMA 5-15 receptacle
- UL 1449 Listed

SL 5-15 (Part # 1100-426)

120VAC 15A single phase, silicon diode, plug-in equipment surge suppressor

Electrical

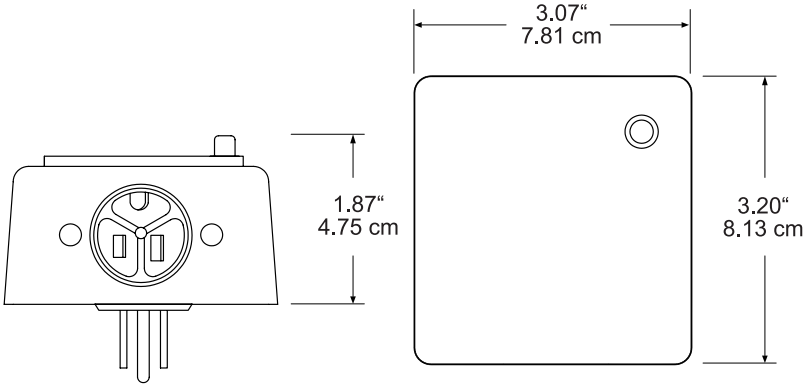
Service Voltage	120VAC
Protection Level 8/20µs @ 6kV 500A	300VAC L-N
Response Time	<5 nanoseconds
IEEE Location Category	A

Environmental

Operating Temperature	-30°C to +65°C
Humidity	95% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.2 x 3.1 x 1.9
Dimensions (HxWxD in cm)	8.2 x 7.9 x 4.8
Maximum Weight (lbs.)	0.7
Maximum Weight (kg.)	0..4



Product Data Sheet: 1451-011

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AC Surge Protection

120VAC Silicon Plug-in Protection

TS 120 520SM
1101-557

Features

- Non degrading, low clamping, leadless silicon diode primary protection (L-N); with MOV backup (L-N, L-G, N-G)
- Illuminated and remote (dry contact relay) status indication per phase
- NEMA 5-20 plug on 12" cord
- NEMA 5-20 receptacle
- Wall mountable
- Line and load bidirectional protection
- UL 1449 Listed

Options

- NEMA 6-20 version (Part Number 1101-634)

Specification Sheet: 1400-525

TS 520SM (Part # 1101-557)

120VAC single phase, silicon diode primary with MOV back-up, plug-in equipment surge suppressor

Electrical

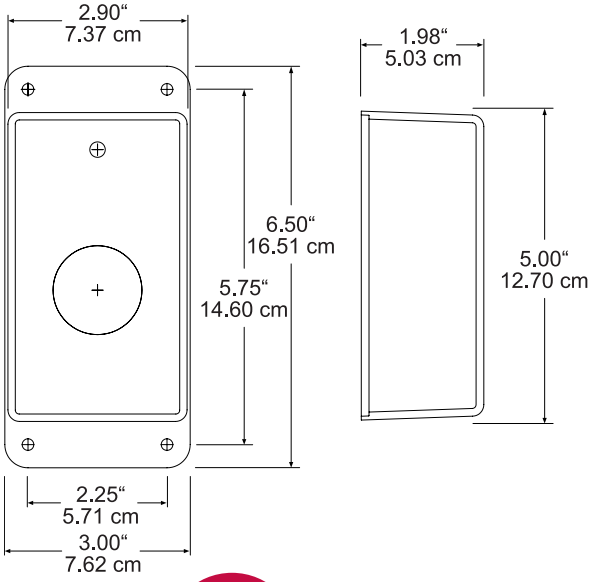
Service Voltage	120VAC
Maximum Continuous Operating Voltage	140 Vrms L-N
Protection Level @ 6kV 500A	330V peak L-N
Surge Current Rating 8/20µs	1400 VDC @ 10kA
Response Time	<5 nanoseconds
IEEE Location Category	A

Environmental

Enclosure Rating	UL 94-5V
Operating Temperature	-40°C to +55°C
Humidity	95% non condensing

Mechanical

Dimensions (HxWxD in inches)	6.5 x 3.0 x 2.0
Dimensions (HxWxD in cm)	16.6 x 7.4 x 5.1
Maximum Weight (lbs.)	1.4
Maximum Weight (kg.)	0.6



AC Surge Protection

120/240VAC Silicon Panel Protection

MCP 120TA-10M
1101-299

Features

- Non degrading, low clamping, silicon diode technology
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection

Options

- Outdoor configuration (Part Number 1101-424)
- Outdoor 20kA configuration (Part Number 1101-645)
- 20kA configuration (Part Number 1101-689)

MCP Split Phase (Part # 1101-299)

120/240VAC split phase, silicon diode with MOV backup, panel surge suppressor with remote monitoring

Electrical

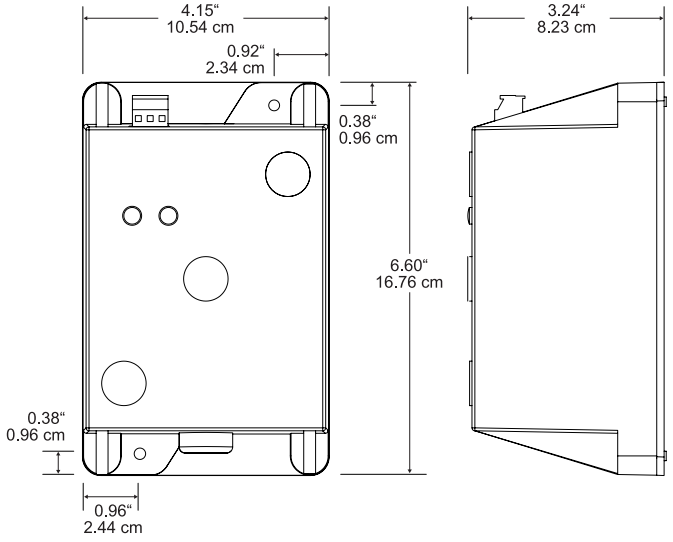
Service Voltage	120/240VAC
Maximum Continuous Operating Voltage	140/208Vrms
Protection Level UL category listing	330Vpk L-N
Surge Current Rating 8/20µs	10kA @ 20kV
Response Time	<5 nanoseconds
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94V-0
Operating Temperature	-40°C to +85°C
Humidity	90% non condensing

Mechanical

Dimensions (HxWxD in inches)	6.6 x 4.2 x 3.3
Dimensions (HxWxD in cm)	16.8 x 10.6 x 8.3
Maximum Weight (lbs.)	4.0
Maximum Weight (kg.)	1.9



Specification Sheet: 1400-309

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APEX IV X5 120 TMR
1101-460

Features

- Non degrading, low clamping, leadless silicon diode primary protection with MOV backup
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Easy to remove plug-in modules
- UL 1449 Listed

Options

- MOV only configurations also available Visit www.transtector.com for additional voltage and product configurations

Specification Sheet: 1400-406

APEX IV Split Phase (Part # 1101-460)

120/240VAC split phase, modular, 10kA silicon diode panel surge suppressor with remote monitoring and MOV back-up

Electrical

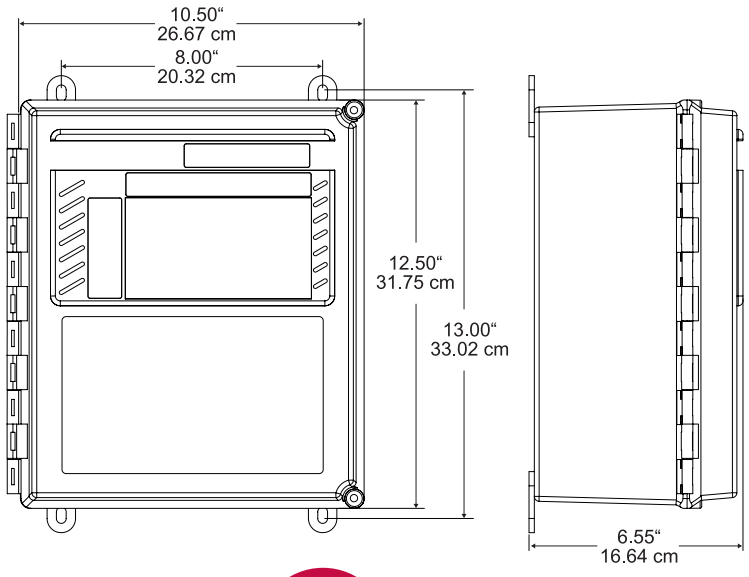
Service Voltage	120/240VAC
Maximum Continuous Operating Voltage	150VAC
Protection Level UL category listing	330Vpk L-N
Surge Current Rating 8/20µs	10kA silicon
Response Time	<5 nanoseconds
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94-5V/NEMA 4X
Operating Temperature	-30°C to +65°C

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	10.5
Maximum Weight (kg.)	4.8



AC Surge Protection

120/240VAC Silicon Hybrid Panel Protection

APEX Imax 120/240
1101-808

Features

- Motorola R-56 approved
- Hybrid silicon diode MOV design
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Thermally protected MOV
- Plug-in modules
- UL 1449 Listed

Options

- Available in steel powder coated NEMA 12 enclosure (Part Number 1101-808M)

Specification Sheet: 1400-581

Imax Split Phase (Part # 1101-808)

120/240VAC modular, silicon diode hybrid with MOV, 160kA per phase, 65kAIC, panel surge suppressor with remote monitoring

Electrical

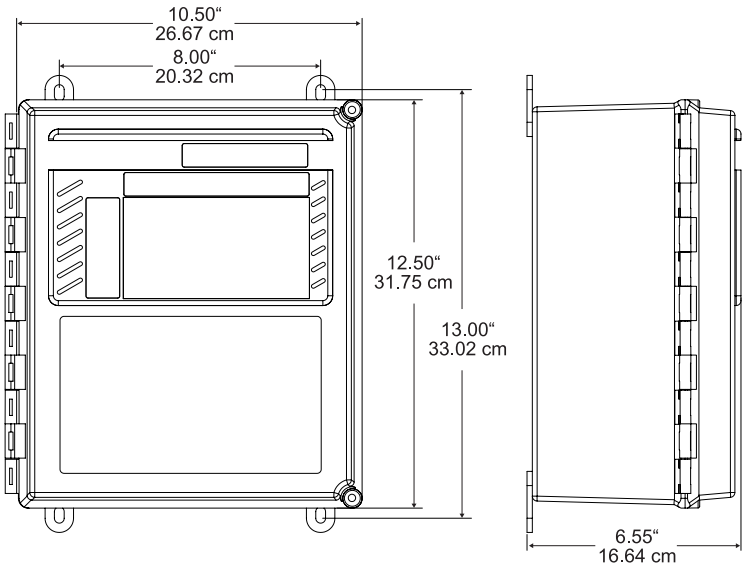
Service Voltage	120/240VAC
Maximum Continuous Operating Voltage	145VAC
Protection Level UL category listing	330Vpk L-N
Surge Current Rating 8/20µs	160kA per phase
Response Time	<1 nanosecond
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94-5V/NEMA 4X
Operating Temperature	-40°C to +65°C
Humidity	100% non condensing

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	14.0
Maximum Weight (kg.)	6.5



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APEX IV 120TR MOV
1101-338

Features

- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Easy to remove plug-in modules
- UL 1449 Listed

APEX IV Split Phase (Part # 1101-338)

120/240VAC split phase, modular, 30kA MOV per phase, panel surge suppressor with remote monitoring

Electrical

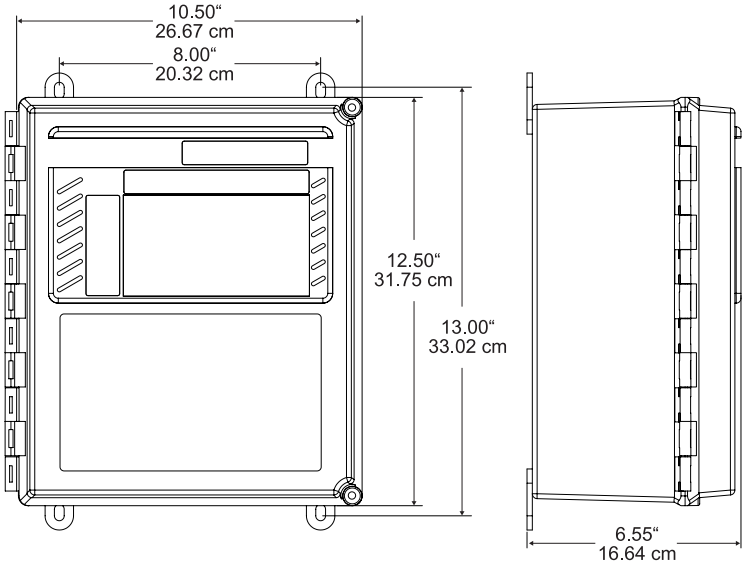
Service Voltage	120/240VAC
Maximum Continuous Operating Voltage	150VAC
Protection Level @ 6kV 500A	800VAC
Surge Current Rating 8/20µs	30kA per phase
Response Time	<5 nanoseconds
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94-5V/NEMA 4X
Operating Temperature	-30°C to +65°C

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	10.5
Maximum Weight (kg.)	4.8



Specification Sheet: 1400-406

AC Surge Protection

120/240VAC MOV Panel Protection

APEX Imax 120/240 MOV
1101-808MM

Features

- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Thermally protected MOV
- Plug-in modules
- UL 1449 Listed

Options

- Available in steel powder coated NEMA 12 enclosure (Part Number 1101-808MMM)

Imax Split Phase (Part # 1101-808MM)

120/240VAC split phase, modular, 160kA MOV, 65kAIC, panel surge suppressor with remote monitoring

Electrical

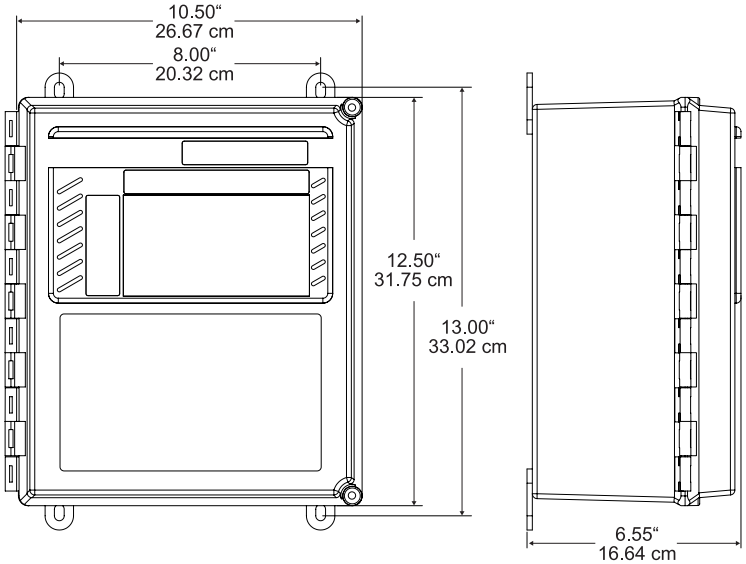
Service Voltage	120/240VAC
Maximum Continuous Operating Voltage	145VAC L-N
Protection Level @ 6kV 500A	400Vpk
Surge Current Rating 8/20µs	160kA per phase
Response Time	1 Nanosecond
IEEE Location Category	C High

Environmental

Enclosure Rating	UL94-5V/NEMA 4X
Operating Temperature	-40°C to +65°C
Humidity	100% non condensing

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	14.0
Maximum Weight (kg.)	6.5



Specification Sheet: 1400-581

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APEX IV X5 120WMR 3-phase
1101-464

Features

- Non degrading, low clamping, leadless silicon diode primary protection with MOV backup
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Easy to remove plug-in modules
- UL 1449 Listed

Options

- Silicon only back-up configuration (Part Number 1101-439-434)
- International voltage configuration (Part Number 1101-719)
- Other configurations voltages available
  Visit www.transtector.com for information

APEX IV 3-phase Wye (Part # 1101-464)

120/208VAC 3-phase wye, modular, 10kA silicon diode, panel surge suppressor with remote monitoring and MOV back-up

Electrical

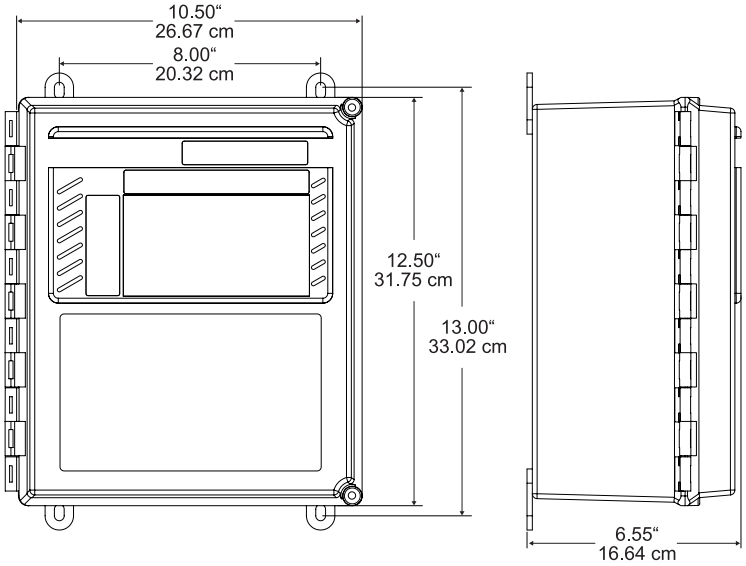
Service Voltage	120/208VAC
Maximum Continuous Operating Voltage	150VAC
Protection Level UL category listing	330Vpk L-N
Surge Current Rating 8/20µs	10kA silicon
Response Time	<5 nanoseconds
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94-5V/NEMA 4X
Operating Temperature	-30°C to +65°C

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	10.5
Maximum Weight (kg.)	4.8



Specification Sheet: 1400-406

AC Surge Protection

120/208VAC Silicon/MOV Panel Protection

MCP 120W SASD/MOV
1101-732

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- UL 1449 Listed

Options

- Outdoor configuration (Part Number 1101-738)
- MOV only configurations also available Visit www.transtector.com for additional details
- MCP SASD-MOV enclosure with counter (Part Number 1101-771)

MCP 3-phase Wye (Part # 1101-732)

120/208VAC 3-phase wye, MOV back-up, panel surge suppressor with remote monitoring

Electrical

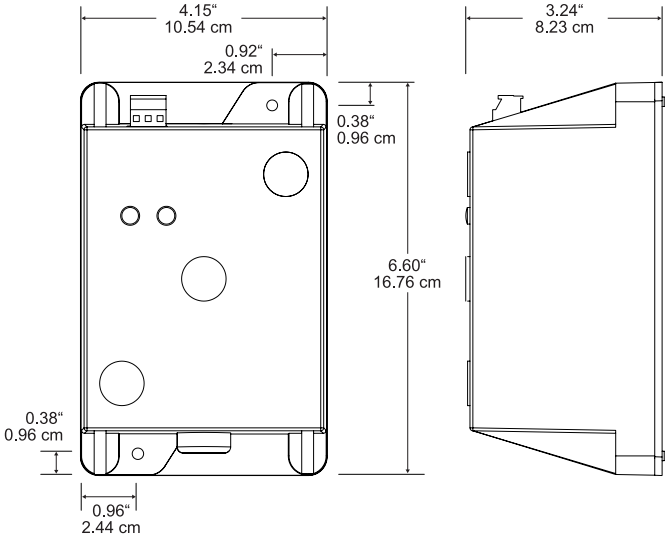
Service Voltage	120/208VAC
Maximum Continuous Operating Voltage	160VAC
Protection Level UL category listing	330V L-N
Surge Current Rating 8/20µs	1200V @ 120kA 8/20µs
Response Time	<1 nanosecond
IEEE Location Category	C

Environmental

Enclosure Rating	UL 94V-0
Operating Temperature	-40°C to +75°C

Mechanical

Dimensions (HxWxD in inches)	6.6 x 4.2 x 3.3
Dimensions (HxWxD in cm)	16.8 x 10.6 x 8.3
Maximum Weight (lbs.)	2.5
Maximum Weight (kg.)	1.1



Specification Sheet: 1400-525

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APEX Imax 120/208
1101-809

Features

- Hybrid silicon diode MOV design
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Motorola R-56 approved
- Thermally protected MOV
- Plug-in modules
- UL 1449 Listed

Options

- Available in steel powder coated NEMA 12 enclosure (Part Number 1101-809M)

Specification Sheet: 1400-581

Imax 3-phase Wye (Part # 1101-809)

120/208VAC 3-phase wye, modular, silicon diode hybrid with MOV, 160kA surge current rating per phase, 65kAIC, panel surge suppressor with remote monitoring

Electrical

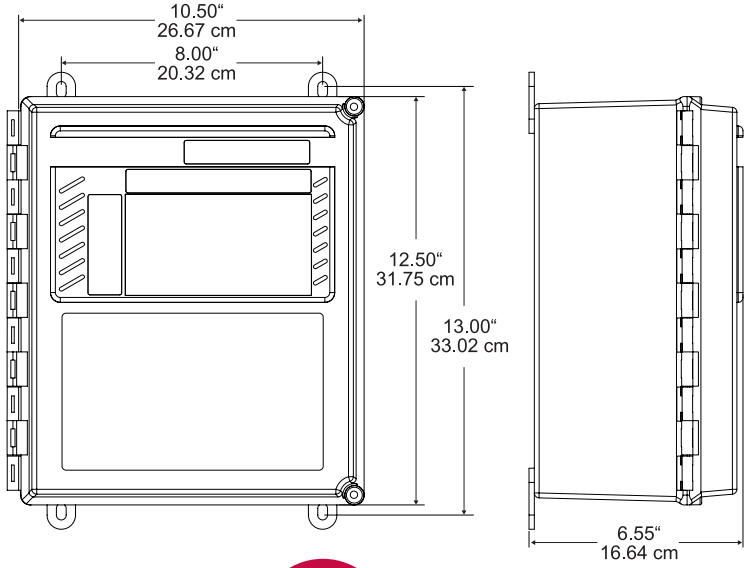
Service Voltage	120/208VAC
Maximum Continuous Operating Voltage	145VAC L-N
Protection Level UL category listing	330Vp
Surge Current Rating 8/20µs	160kA per phase
Response Time	<1 nanosecond
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94-5V/NEMA 4X
Operating Temperature	-40°C to +65°C
Humidity	100% non condensing

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	14.0
Maximum Weight (kg.)	6.5



AC Surge Protection

120/208VAC MOV Panel Protection

APEX Imax 120/208 MOV
1101-809MM

Features

- Non degrading, low clamping, leadless silicon primary protection
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Plug-in modules
- UL 1449 Listed

Options

- Available in steel powder coated NEMA 12 enclosure (Part Number 1101-809MMM)

Imax 3-phase Wye MOV (Part # 1101-809MM)

120/208VAC 3-phase wye, modular, 160kA MOV, 65kAIC, panel surge suppressor with remote monitoring

Electrical

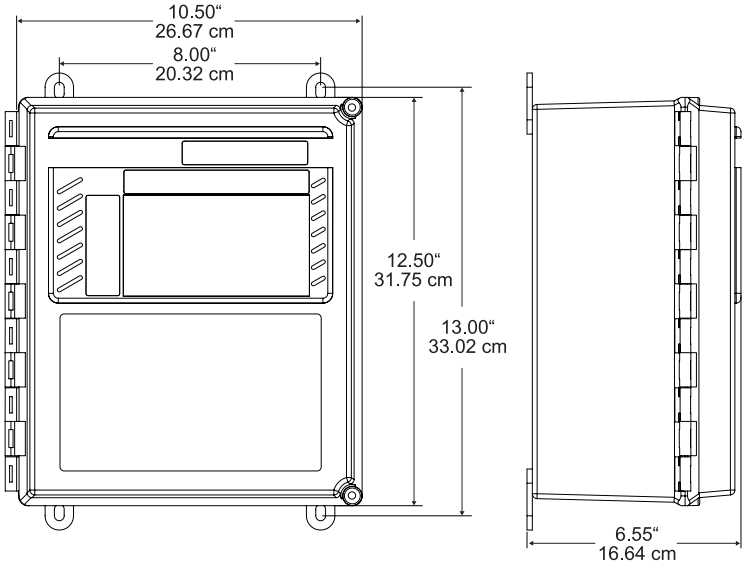
Service Voltage	120/208VAC
Maximum Continuous Operating Voltage	145VAC L-N
Protection Level @ 6kV 500A	400Vpk
Surge Current Rating 8/20µs	160kA per phase
Response Time	<1 nanosecond
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94-5V/NEMA 4X
Operating Temperature	-40°C to +65°C
Humidity	100% non condensing

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	14.0
Maximum Weight (kg.)	6.5



Specification Sheet: 1400-581

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APEX MOV 120WM
1101-546

Features

- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Easy to remove plug-in modules
- UL 1449 Listed

APEX MOV 120WM (Part # 1101-546)

120/208VAC 3-phase wye, modular, 30kA MOV, panel surge suppressor with remote monitoring

Electrical

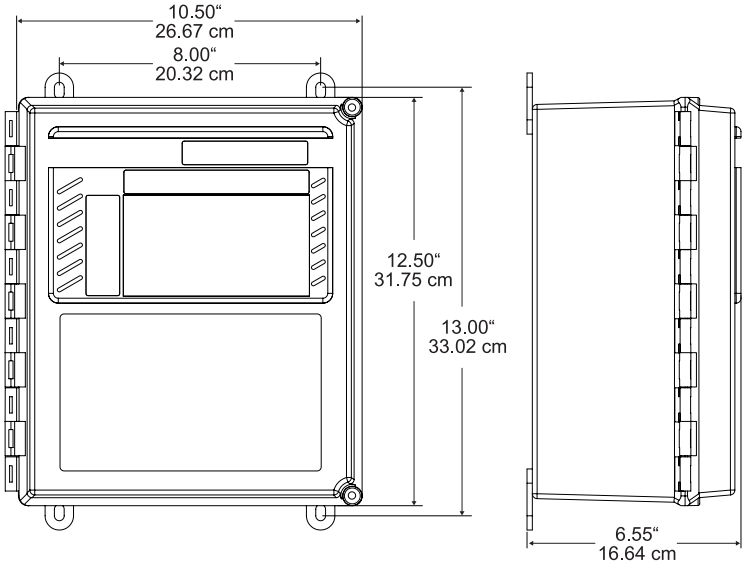
Service Voltage	120/208VAC
Maximum Continuous Operating Voltage	150VAC
Protection Level @ 6kV 500A	800V L-N
Surge Current Rating 8/20µs	30kA per phase
Response Time	<5 nanoseconds
IEEE Location Category	C High

Environmental

Enclosure Rating	UL 94-5V/NEMA 4X
Operating Temperature	-30°C to +65°C

Mechanical

Dimensions (HxWxD in inches)	12.5 x 10.5 x 6.6
Dimensions (HxWxD in cm)	31.8 x 26.7 x 16.7
Maximum Weight (lbs.)	10.5
Maximum Weight (kg.)	4.8



Specification Sheet: 1400-406

AC Surge Protection

240VAC Silicon DIN Rail Equipment Protection

DR 240
1101-347

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- UL 1449 Recognized

DR Single Phase (Part # 1101-347)

240VAC single phase, silicon diode, DIN rail, equipment surge suppressor with remote monitoring

Electrical

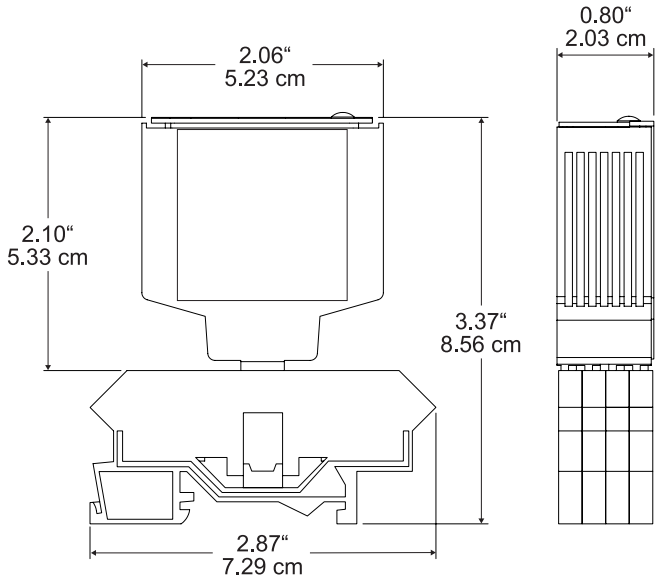
Service Voltage	240VAC
Maximum Continuous Operating Voltage	280VAC
Protection Level	660V peak
Surge Current Rating 8/20µs	1kA
Response Time	<5 nanoseconds

Environmental

Operating Temperature	-40°C to +85°C
Humidity	95% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.4 x 0.8 x 2.9
Dimensions (HxWxD in cm)	8.6 x 2.1 x 7.3
Maximum Weight (lbs.)	0.2
Maximum Weight (kg.)	0.1



Specification Sheet: 1400-320

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SuperHy 240V
1101-826

Features

- Compact, high current capacity, non degrading silicon diode
- High amperage activated MOV circuit
- Visual and remote status indication per phase
- Line and load bidirectional protection
- Overload disconnect per phase

Options

- Enclosure available for single phase configuration

SuperHy Single Phase (Part # 1101-826)

240VAC single phase, silicon diode with cicuit shunt MOV, hardwire, DIN rail, Class I and Class II IEC surge suppressor with remote monitoring

Electrical

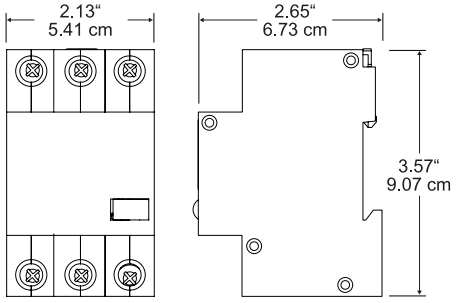
Service Voltage	240VAC
Maximum Continuous Operating Voltage	350VAC
Maximum Series Wired Service Current	63A
Breakdown Voltage Threshold	500V @ 20mA
Protection Level 10/1000µs	800V @ 1.7kA L-N
Protection Level 10/350µs	1200V @ 20kA L-N
Protection Level 8/20µs	600V @ 500A L-N
Surge Current Rating 8/20µs	100kA
Response Time	<1 nanosecond
IEEE Location Category	C High
IEC-61643-1	Class I and Class II

Environmental

Enclosure Rating	UL 94V-0
Operating Temperature	-40°C to +75°C
Humidity	90% non condensing

Mechanical

Dimensions (HxWxD in inches)	3.6 x 2.2 x 2.7
Dimensions (HxWxD in cm)	9.1 x 5.5 x 6.8
Maximum Weight (lbs.)	0.7
Maximum Weight (kg.)	0.3



Specification Sheet: 1400-631

AC Surge Protection

240/415VAC Silicon/MOV Panel Protection

SuperHy 3-phase
1101-901-1

Features

- Compact, high current capacity, non degrading silicon diode
- High current activated MOV circuit
- Visual and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- Overload disconnect per phase

Options

- Normal mode configuration (Part Number 1101-901)
- Available with or without enclosure

Specification Sheet: 1400-631

SuperHy 3-phase Common Mode

(Part # 1101-901-1)

240/415VAC 3-phase common mode, silicon diode with cicuit shunt MOV, hardwire, IP65 enclosure, Class I and Class II IEC surge suppressor with remote monitoring

Electrical

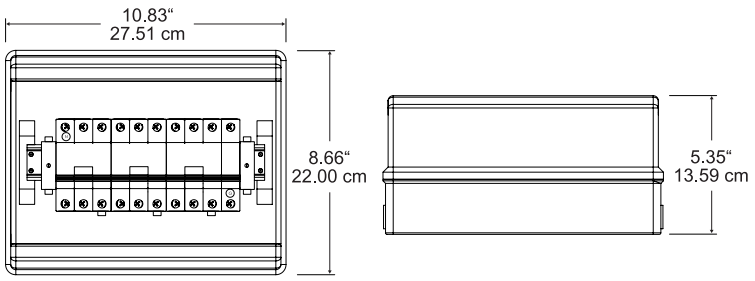
Service Voltage	240/415VAC
Maximum Continuous Operating Voltage	350VAC
Maximum Series Wired Service Current	63A
Breakdown Voltage Threshold	500V @ 20mA
Protection Level 10/1000µs	800V @ 1.7kA L-N
Protection Level 10/350µs	1200V @ 20kA L-N
Protection Level 8/20µs	600V @ 500A L-N
Surge Current Rating 8/20µs	100kA
Response Time	<1 nanosecond
IEEE Location Category	C High
IEC-61643-1	Class I and Class II

Environmental

Enclosure Rating	IP65/UL 94V-0
Operating Temperature	-40°C to +75°C
Humidity	90% non condensing

Mechanical

Dimensions (HxWxD in inches)	8.7 X 10.9 X 5.4
Dimensions (HxWxD in cm)	22.0 X 27.6 X 13.6
Maximum Weight (lbs.)	0.7
Maximum Weight (kg.)	0.3



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SDA 10K 480/277W
1101-429

Features

- Non degrading, low clamping, leadless silicon diode primary protection
- Illuminated and remote status indication per phase
- Parallel installation

SDA 3-phase Wye (Part # 1101-429)

277/480VAC 3-phase wye, modular, 10kA silicon diode, panel suppressor with remote monitoring

Electrical

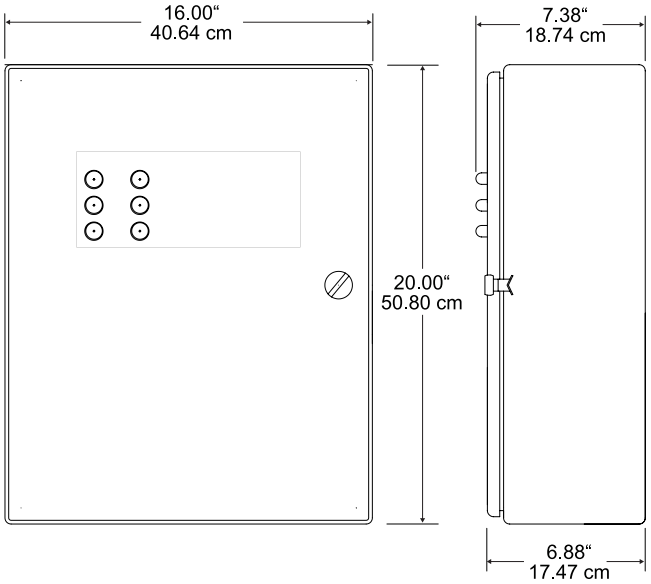
Service Voltage	277/480VAC
Maximum Continuous Operating Voltage	600Vrms L-N
Surge Current Rating 8/20µs	10kA
Response Time	<5 nanoseconds
IEEE Location Category	C High

Environmental

Enclosure Rating	NEMA 4
Operating Temperature	-40°C to +85°C
Humidity	95% non condensing

Mechanical

Dimensions (HxWxD in inches)	20.0 x 16.0 x 6.9
Dimensions (HxWxD in cm)	50.8 x 40.7 x 17.5
Maximum Weight (lbs.)	45.0
Maximum Weight (kg.)	20.4



Specification Sheet: 1400-334

AC Surge Protection

277/480VAC MOV Panel Protection

SPD SP225-277/480-3Y-DS
1102-009-15

Features

- Symmetrically balanced MOV array
- Suppressor attaches in parallel with the load requiring protection
- Provides EMI noise filtering
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- UL 1449 Recognized

SPD 3-phase Wye (Part # 1102-009-15)

277/480VAC 3-phase wye, modular, 225kA MOV, panel surge suppressor with remote monitoring

Electrical

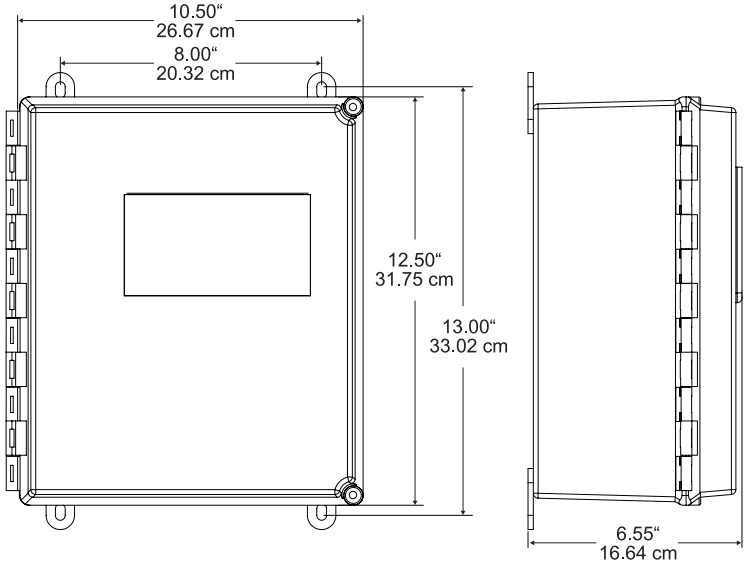
Service Voltage	277/480 VAC
Maximum Continuous Operating Voltage	600VAC
Surge Current Rating	225kA per phase (L-L) 112.5kA (L-N) (L-G) (N-G)
Response Time	<1 nanoseconds
IEEE Location Category	C High

Environmental

Enclosure Rating	NEMA 12
Operating Temperature	-40°C to +80°C
Humidity	95% non condensing

Mechanical

Dimensions (HxWxD in inches)	13.0 x 10.5 x 6.6
Dimensions (HxWxD in cm)	33.1 x 26.7 x 16.5
Maximum Weight (lbs.)	48.0
Maximum Weight (kg.)	21.8



Specification Sheet: 1400-334

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I²R® SA480D 40
1102-014-26

Features

- Low clamping, leadless MOV primary protection
- Illuminated and remote (dry contact relay) status indication per phase
- Line and load bidirectional protection
- UL 1449 Recognized

Options

- 120VAC single phase configuration (Part Number 1102-014-13-1)
- 120/240VAC split phase configuration (Part Number 1101-515-2110)

I²R® Delta (Part # 1102-014-26)

480VAC 3-phase Delta, MOV, 40kA, DIN rail, panel surge suppressor with remote monitoring

Electrical

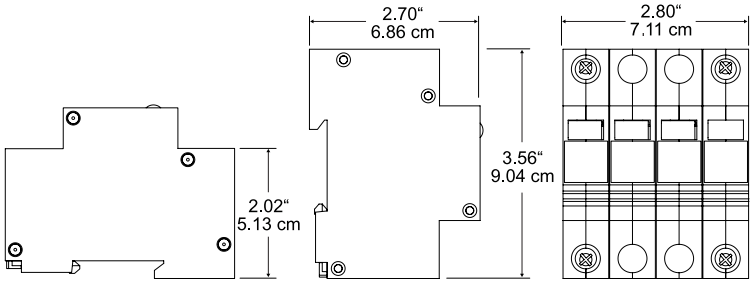
Service Voltage	480VAC
Maximum Continuous Operating Voltage	600VAC
Protection Level 8/20µs @ 6kV 500A	1.1kV @ 500A
Surge Current Rating 8/20µs	40kA
Response Time	<25 nanoseconds
IEEE Location Category	C High

Environmental

Operating Temperature	-40°C to +85°C

Mechanical

Dimensions (HxWxD in inches)	3.6 x 2.8 x 2.7
Dimensions (HxWxD in cm)	9.0 x 7.0 x 6.7
Maximum Weight (lbs.)	0.9
Maximum Weight (kg.)	0.4



Installation Guide: 1200-142

Integrated Power Protection Cabinets

General Overview

Transtector's Integrated Power Protection Cabinets provide full functionality for quick site setup and termination of both electrical and communication utility feeds. They include AC, DC and data/signal surge protection options for commercial applications, including indoor and outdoor telecommunication sites.

Transtector provides exceptional lead time, on-time delivery and value for options based power distribution and telecommunications cabinets.

Indoor Cabinets

- Interior Service Panels

Outdoor Cabinets

- AC Power and Telecommunication Combination Cabinets
- Automatic Transfer Switch (ATS) Cabinets
- Dual Generator Cabinets with Automatic Transfer Switch (ATS)
- Standalone AC Power Demarcation Cabinets
- Standalone Telecommunication Demarcation Cabinets
- TransComm Rail Cabinet

PTC 64

Features

- Mechanically interlocked mains
- Integrated surge suppression
- Three point latching system and pad lockable handle
- 135° wind stop
- GFCI convenience outlet
- UL 891 Listed

Cabinet Options

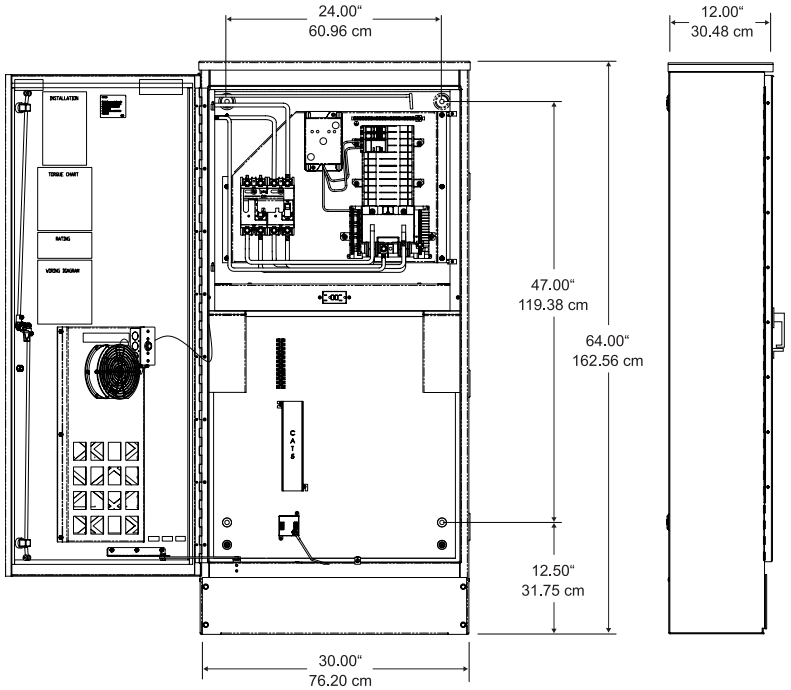
- 100A or 200A generator receptacle
- Thermostatically controlled fan
- Integrated T1/E1 protection
- Integrated Cat5 punch down block
- 12 position terminal strip
- Remote status monitoring
- Numerous AC/DC/data/signal surge protection configurations available

AC Power and Telecommunications Combination Cabinets (PTC 64)

120/240VAC single phase, 100A or 200A, combination AC Power and Telco cabinet

Specifications

Material	Heavy gauge aluminum
Finish	Powder coat
Dimensions (HxWxD in inches)	64 x 30 x 12
Dimensions (HxWxD in cm)	162.6 x 76.2 x 30.5
Maximum Weight (lbs.)	150
Maximum Weight (kg.)	68
Mount	Wall, concrete pad or H frame
Enclosure Type	NEMA 3R
Operating Temperature	-40°C to +75°C
Surge Suppression	Silicon diode with MOV secondary
Relative Humidity	100% non condensing



Specification Sheet: 1400-564

Integrated Power Protection Cabinets

Outdoor Cabinet

ATS

Features

- Provides main breakers for incoming power, and ATS for transfer between utility and generator sources
- LED status indication
- UL 50

Options

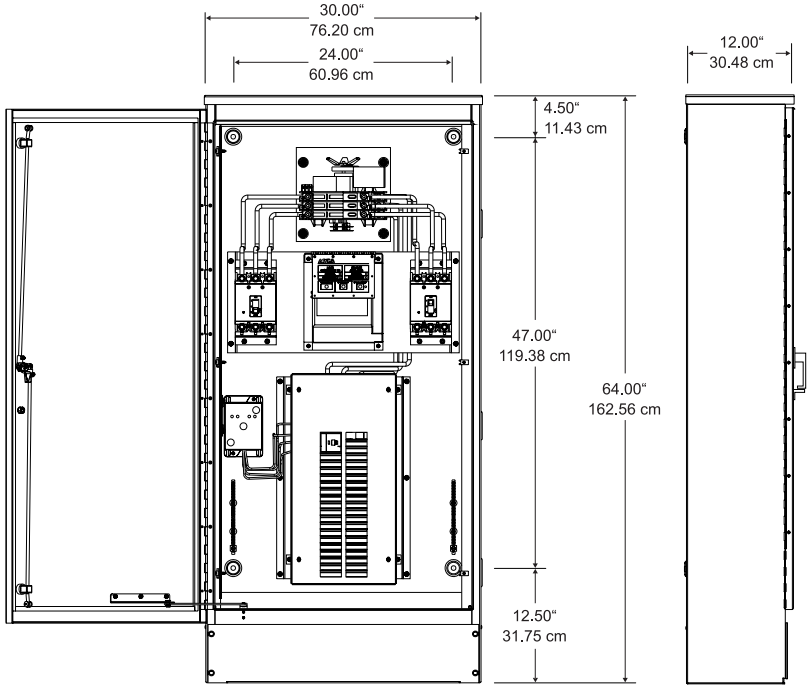
- 240VAC single phase
- GE/Zenith, 200A ATS (automatic transfer switch)
- ASCO 300, 200A, 2 pole ATS (automatic transfer switch)
- ASCO 300, 200A, 3 pole ATS (automatic transfer switch)
- Remote status monitoring
- Numerous AC/DC/data/signal surge protection configurations available

Automatic Transfer Switch (ATS) Cabinets

120/240VAC, single phase, 100A or 200A power protection cabinet with ATS (automatic transfer switch)

Cabinet Specifications

Material	Heavy gauge aluminum
Finish	Powder coat
Dimensions (HxWxD in inches)	64 x 30 x 12
Dimensions (HxWxD in cm)	162.6 x 76.2 x 30.5
Maximum Weight (lbs.)	150
Maximum Weight (kg.)	68
Mount	Structure, concrete pad or H frame
Enclosure Type	NEMA 3R
Operating Temperature	-40°C to +75°C
Surge Suppression	Silicon diode with MOV secondary
Relative Humidity	100% non condensing



Specification Sheet: 1400-565

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Dual Generator w/ATS

Features

- Voltage sensing with automatic and manual switching between two generators
- UL 891 Listed

Options

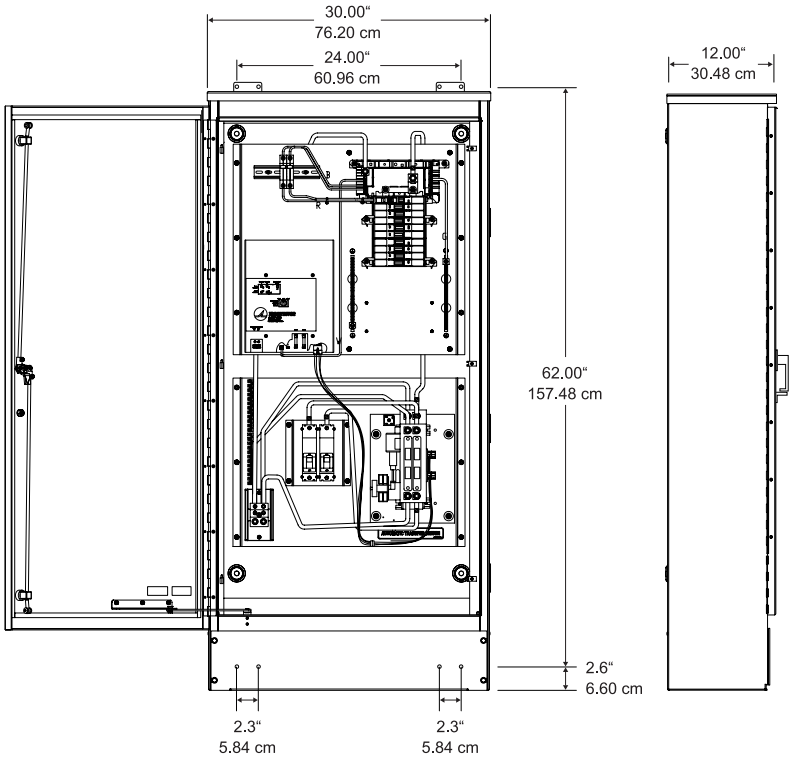
- Transtector I²R® 240VAC surge suppression
- GE/Zenith, 200A ATS (automatic transfer switch)
- Remote status monitoring
- Numerous AC/DC/data/signal surge protection configurations available

Dual Generator Cabinet with Automatic Transfer Switch (ATS)

100A, 20 position outdoor, power protection cabinet with 240VAC ATS (automatic transfer switch) - intended for use in critical applications that require continous, protected AC power to sensitive loads

Cabinet Specifications

Material	Heavy gauge aluminum
Finish	Powder coat
Dimensions (HxWxD in inches)	62 x 30 x 12
Dimensions (HxWxD in cm)	157.5 x 76.2 x 30.5
Maximum Weight (lbs.)	150
Maximum Weight (kg.)	68
Mount	Structure, concrete pad or H frame
Enclosure Type	NEMA 3R
Operating Temperature	-40°C to +75°C
Surge Suppression	Silicon diode with MOV secondary
Relative Humidity	100% non condensing



Specification Sheet: 1400-615

Integrated Power Protection Cabinets

Outdoor Cabinet

PPC 40

Features

- Mechanically interlocked mains
- Illuminated status indication
- Three point latching system and pad lockable handle
- Integrated surge protection
- Multipoint ground bar
- GFCI convenience outlet

Options

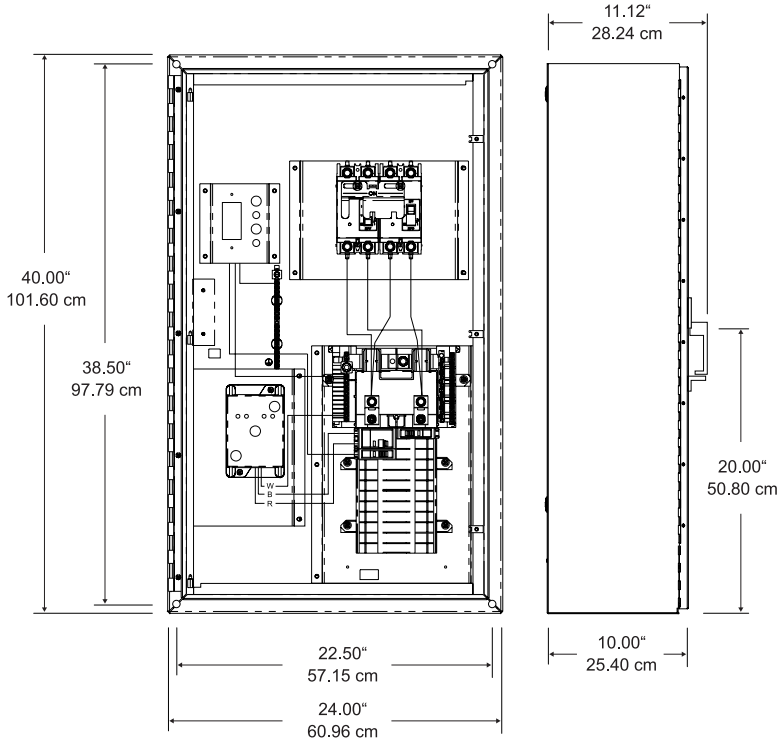
- 100A or 200A generator receptacle
- GFI with status indication
- DIN rail mounted control assembly
- Remote status monitoring
- Numerous AC/DC/data/signal surge protection configurations available

Standalone AC Power Protection Cabinet (PPC 40)

Integrated surge protection in an industrial grade indoor/outdoor 40” cabinet (can be combined with the Telco 40 to support line-up applications)

Cabinet Specifications

Material	Heavy gauge aluminum
Finish	Powder coat
Dimensions (HxWxD in inches)	40 x 24 x 10
Dimensions (HxWxD in cm)	101.6 x 61.0 x 25.4
Mount	Wall or frame
Enclosure Type	NEMA 3R
Operating Temperature	-40°C to +75°C
Surge Suppression	Silicon diode with MOV secondary
Relative Humidity	100% non condensing



Specification Sheet: 1400-390

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Telco 40

Features

- Louver style ventalation
- Air flow filter
- 3/4" panel plywood back panel
- Multipoint ground bar
- Easy access front cover panel

Options

- Intrusion alarm contact
- 120AC thermostatically controlled fan with guard
- 66 termination punchdown block
- 12 position terminal strip
- Floresent lamp
- Numerous AC/DC/data/signal surge protection configurations available

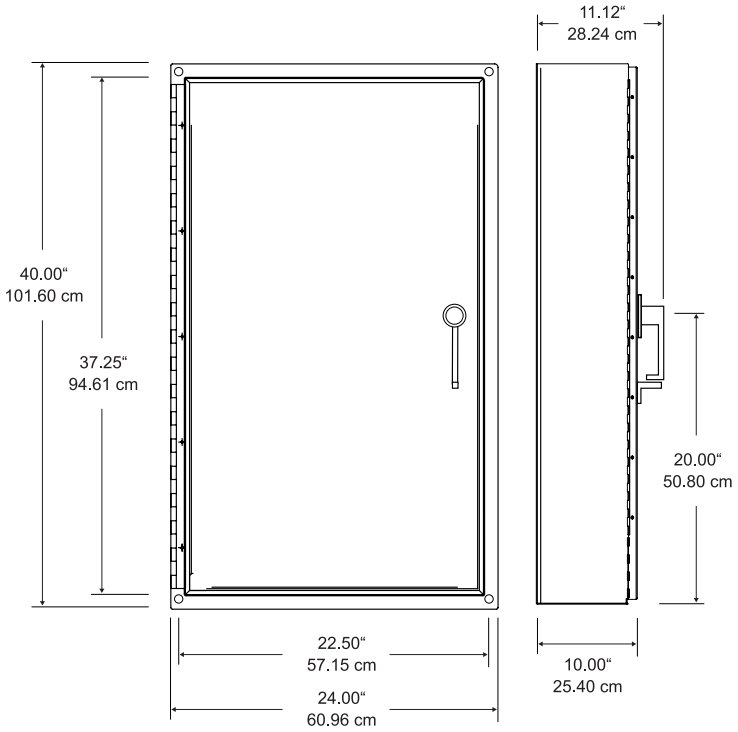
Specification Sheet: 1400-390

Standalone Telecommunications Demarcation Cabinet (Telco 40)

Indoor/outdoor Telco demarcation cabinet with integrated signal line surge suppression options (can be combined with PPC 40 to support line-up applications)

Specifications

Material	Heavy gauge aluminum		
Finish	Powder coat		
Dimensions (HxWxD in inches)	58 x 24 x 20	40 x 24 x 10	24 x 20 x 10
Dimensions (HxWxD in cm)	147.3 x 60.9 x 50.8	101.6 x 61.0 x 25.4	61.0 x 50.8 x 25.4
Mount	Wall or H frame		
Enclosure Type	NEMA 3R		
Operating Temperature	-40°C to +75°C		
Relative Humidity	100% non condensing		



Integrated Power Protection Cabinets

Outdoor Cabinet

TransComm

Features

- Automated programable environmental control system
- AC distribution with silicon diode surge protection
- Multipoint ground bar (six position)
- Grounded metal backplane

Options

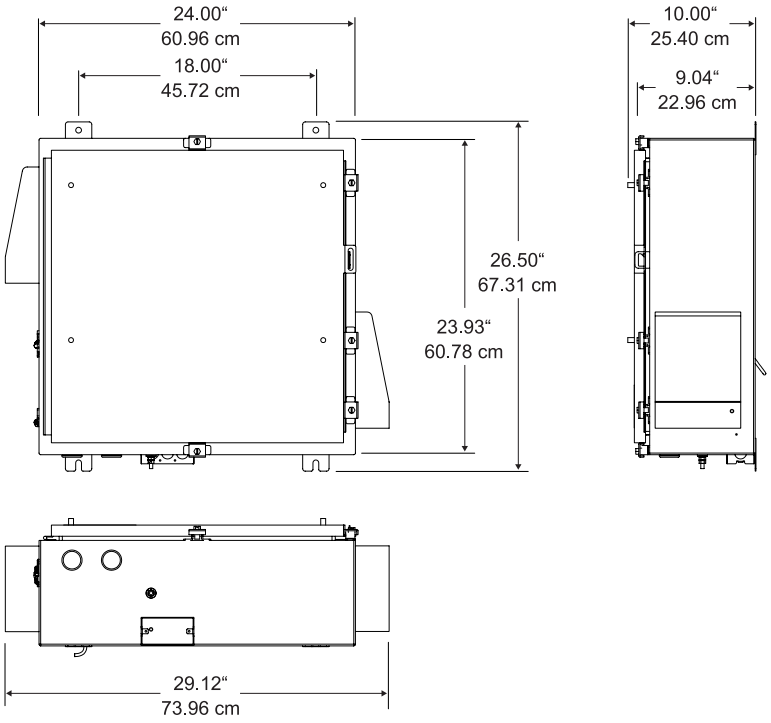
- Numerous AC/DC/data/signal surge protection configurations available

TransComm Rail Cabinet

Rugged cabinet for sensitive railway communications equipment

Cabinet Specifications

Material	Heavy gauge aluminum
Finish	Powder coat
Dimensions (HxWxD in inches)	24 x 24 x 10
Dimensions (HxWxD in cm)	61.0 x 61.0 x 24.7
Mount	Wall or pole mount
Enclosure Type	NEMA 4
Operating Temperature	-40°C to +75°C
Relative Humidity	100% non condensing



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ISP 44

Interior Service Panels (ISP 44)

Indoor AC power panels with integrated surge suppression

Cabinet Specifications

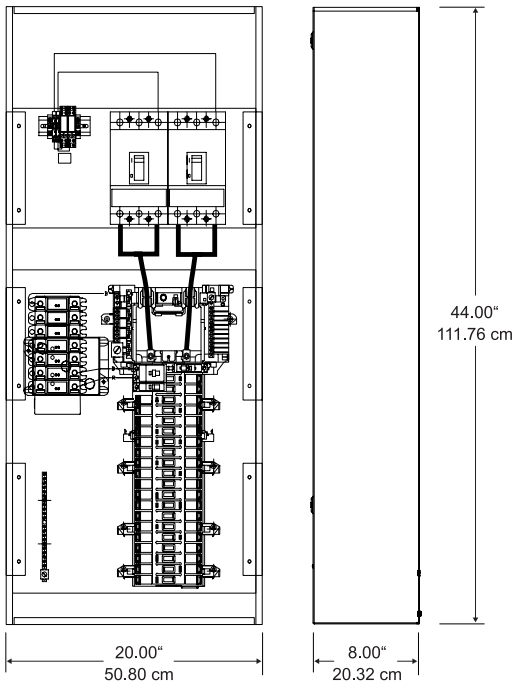
Material	16 gauge steel		
Finish	Powder coat		
Dimensions (HxWxD in inches)	27 x 20 x 8	44 x 20 x 8	56 x 20 x 8
Dimensions (HxWxD in cm)	68.6 x 50.9 x 30.5	111.8 x 50.9 x 30.5	142.2 x 50.9 x 30.5
Mount	Wall mount		
Enclosure Type	NEMA 1		
Operating Temperature	-40°C to +75°C		
Surge Suppression	Silicon diode with MOV secondary		
Relative Humidity	100% non condensing		

Features

- Mechanically interlocked mains
- Secure front cover panel for unit installation and load circuit additions
- Recessed circuit breaker panel
- Integrated surge protection
- Heavy duty ground bar
- UL 891 Listed

Options

- 27”, 44”, or 56” configurations available
- 120/240 single phase or 120/208 three phase
- 100A, 200A or 400A main breaker options
- 12, 24, 30 or 42 position load center
- ATS (automatic transfer switch)
- Numerous AC/DC/data/signal surge protection configurations available



Specification Sheet: 1400-424

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Part Number

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