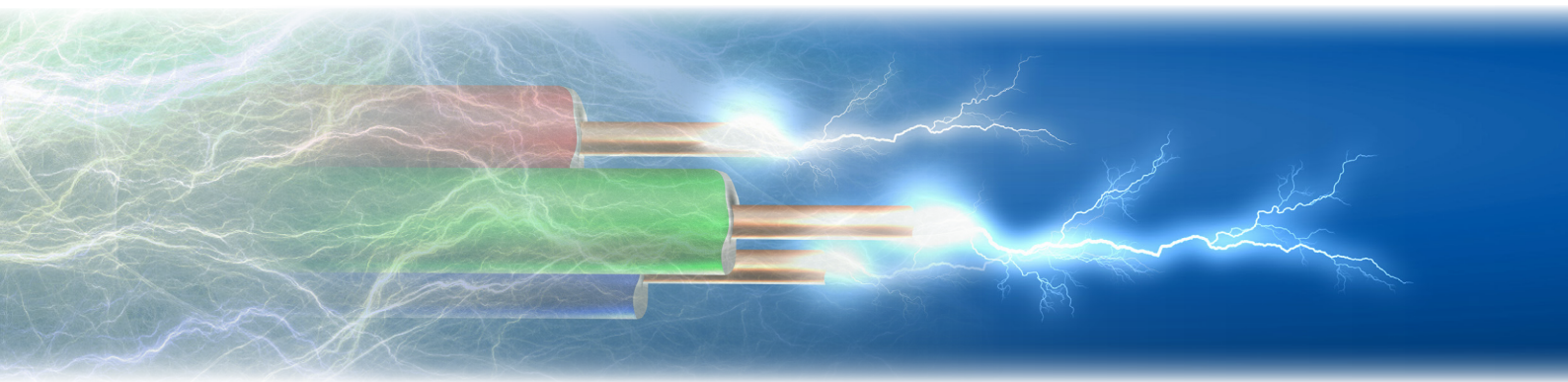



Raycap

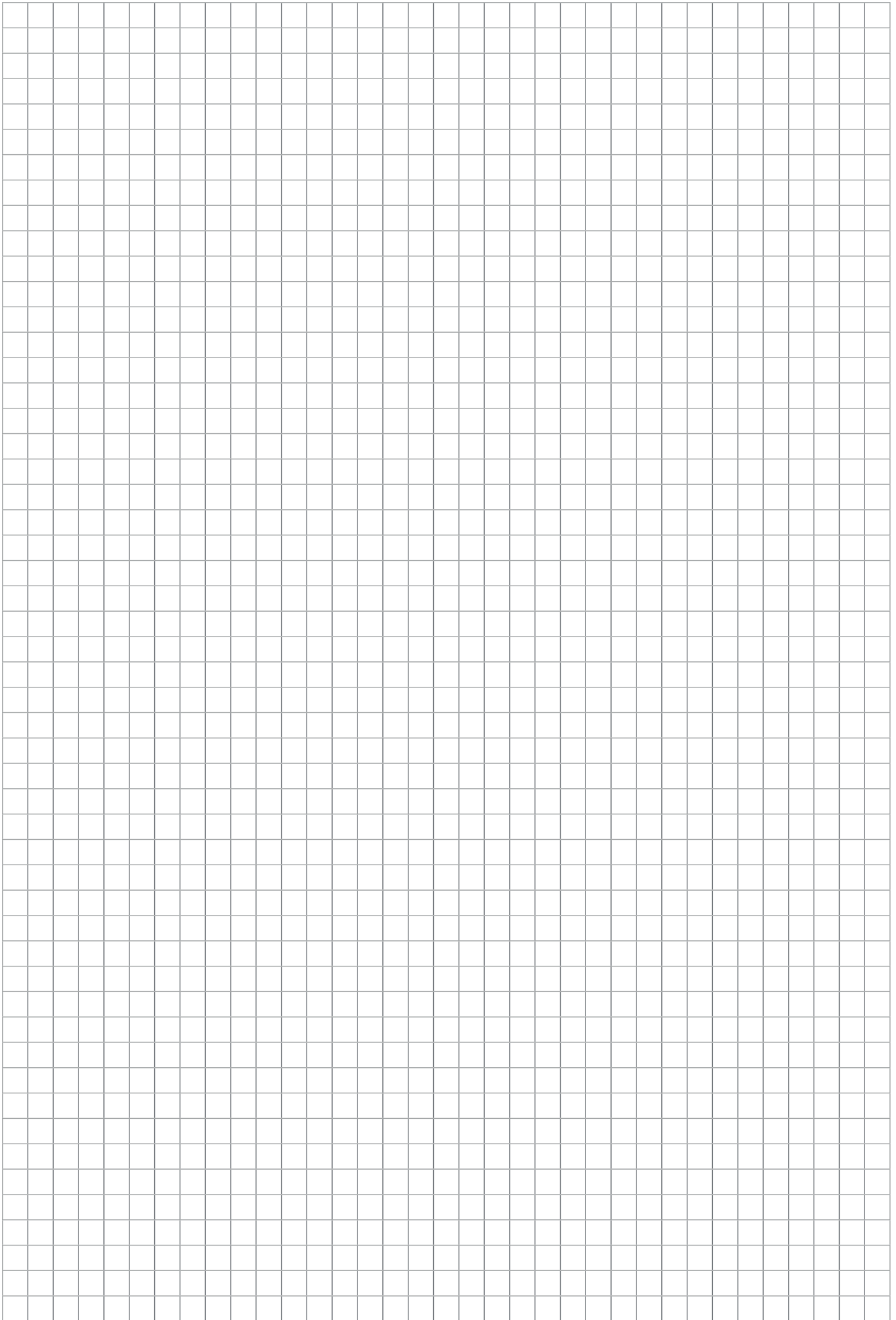
Surge Protection for
Low Voltage Power Systems



2018
CATALOG

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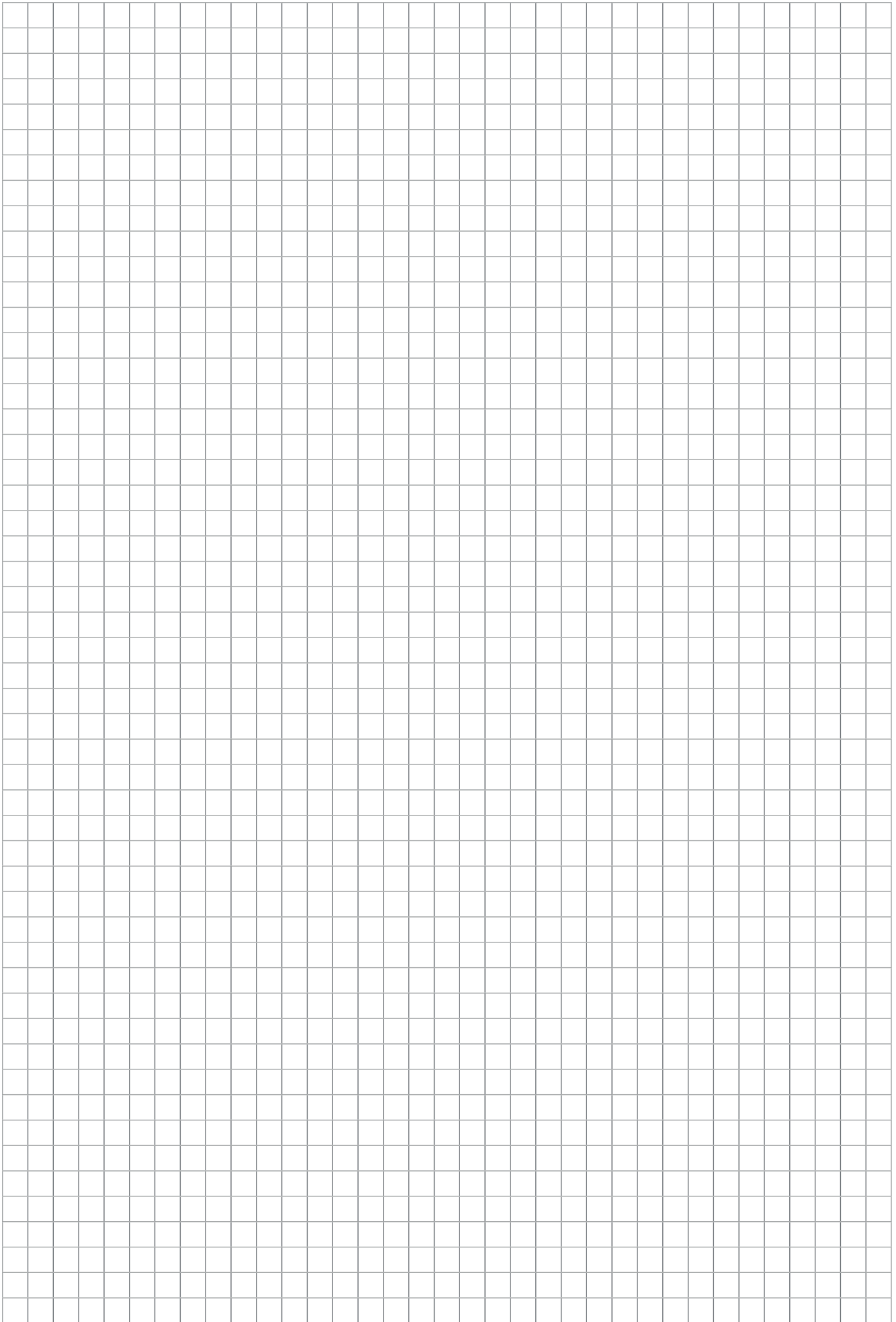
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About Raycap

Raycap was founded in 1987 with a vision of creating and providing solutions that protect the world's infrastructure. From telecommunications to new and traditional energy networks, and from transportation systems to industrial applications of all types, Raycap is there with solutions to ensure equipment uptime in spite of harsh electrical environments. The company strives to keep its customers' sophisticated, mission-critical equipment running seamlessly and continuously, and is driven to make ongoing advancements in its surge protection technologies and product offerings.





Introduction



The electrical environment in which today's sensitive electronic systems are required to operate has become increasingly polluted by electrical disturbances, such as voltage surges and transients. At the same time, the susceptibility of these systems to catastrophic failure due to lightning events continues to exist and increase steadily as the use of micro-controlled electronics has proliferated into many industrial and commercial environments and appliances. Raycap's products and solutions help protect mission-critical applications worldwide.

Regulatory Standards

Regulations	Description
1 CLC/TS 50539-12: 2012	Low-voltage surge protective devices – Surge protective devices for specific application including DC – Part 12: Selection and application principles – SPDs connected to photovoltaic installations
European Standards (EN)	
2 EN 50122-1: 2011+ A3: 2016	Railway applications – Fixed installations – Part 1: Protective provisions relating to electrical safety and earthing
3 EN 50123-5: 2003	Railway applications – Fixed installations – DC switchgear – Part 5: Surge arresters and low-voltage limiters for specific use in DC systems
4 EN 50526-1: 2012	Railway applications – Fixed installations – DC surge arresters and voltage limiting devices – Part 1: Surge arresters
5 EN 50539-11: 2012	Low-voltage surge protective devices - Surge protective devices for specific application including DC – Part 11: Requirements and tests for SPDs in photovoltaic applications
6 EN 50539-12: 2013+ A1: 2014 EN 61643-11: 2012	Low-voltage surge protective devices – Surge protective devices for specific application including DC – Part 12: Selection and application principles – SPDs connected to photovoltaic installations
7 EN 61173: 2001	Overvoltage protection for photovoltaic (PV) power generating systems – Guide 32. SIST EN 61400-1:2006/A1:2011 Wind turbines – Part 1: Design requirements (IEC 61400-1:2005/A1:2010)
8 EN 62561-3: 2012	Lightning protection system components (LPSC) – Part 3: Requirements for isolating spark gaps (ISG)
European Commission on European Standards (EC/EN)	
9 IEC/EN 61326-1: 2012 2LV	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
International Electrotechnical Commission (IEC)	
10 IEC 60038: 2009	IEC standard voltages
11 IEC 60099-4: 2014	Surge arresters – Part 4: Metal-oxide surge arresters without gaps for AC systems
12 IEC 60099-5: 2013	Surge arresters – Part 5: Selection and application recommendations
13 IEC PAS 60099-7: 2004	Surge arresters – Part 7: Glossary of terms and definitions from IEC publications 60099-1, 60099-4, 60099-6, 61643-11, 61643-12, 61643-21, 61643-311, 61643-321, 61643-331 and 61643-341
14 IEC 60364-5-53: 2001+ AMD: 2002+AM2: 2015	Electrical installation of buildings – Part 5-53: Selection and erection of electrical equipment-isolation, switching and control
15 IEC 60364-7-712: 2002	Electrical installations of buildings – Part 7-712: Requirements for special installations or locations – Solar photovoltaic (PV) power supply systems
16 IEC 61000-4-5: 2014	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test
17 IEC 61400-24: 2010	Wind turbine generator systems – Part 24: Lightning protection

Regulations		Description
18	IEC 61643-11: 2011	Surge protective devices connected to low voltage power distribution systems – Requirements and test methods
19	IEC 61643-12: 2008	Surge protective devices connected to low voltage power distribution systems – Selection and application principles
20	IEC 61643-21: 2012	Low voltage surge protective devices – Part 21: Surge protective devices connected to telecommunications and signaling networks – Performance requirements and testing methods
21	IEC 61643-22: 2015	Low-Voltage Surge Protective Devices – Part 22: Surge protection devices connected to telecommunications and signaling networks – Selection and application principles
22	IEC 61643-311: 2013	Components for low-voltage surge protective devices – Part 311: Performance requirements and test circuits for gas discharge tubes (GDT), Edition 2.0, 2013-04
23	IEC 62305-1: 2010	Protection against lightning – Part 1: General principles
24	IEC 62305-2: 2010	Protection against lightning – Part 2: Risk management
25	IEC 62305-3: 2010	Protection against lightning – Part 3: Physical damage to structures and life hazard
26	IEC 62305-4: 2010	Protection against lightning – Part 4: Electrical and electronic systems within structures
27	IEC 62497-2: 2010	Railway applications – Insulation coordination – Part 2: Overvoltages and related protection
28	IEC 62561-6: 2011	Lightning protection system components (LPSC) – Part 6: Requirements for lightning strike counters (LSC)
International Telecommunication Union Standards (ITU-T)		
29	ITU-T K.20: 2011	Protection against interferences: Resistibility of telecommunication equipment installed in a telecommunications center to overvoltages and overcurrents
30	ITU-T K.21: 2016	Protection against interferences: Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents
31	ITU-T K.44: 2016	Protection against interferences: Resistibility test for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation
Harmonization Document (HD)		
32	HD 60364-4-443: 2016	Low voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances – Clause 443: Protection against overvoltages of atmospheric origin or due to switching.
33	HD 60364-7-712: 2016	Low voltage electrical installations – Part 7-712: Requirements for special installations or locations – Photovoltaic (PV) systems
Underwriters Laboratory (UL)		
34	UL 1449 4th Edition	Standard for Surge Protective Devices

Surge Protective Device (SPD) Components & Technology



Typical Components Used in SPDs

Voltage-limiting Type SPD



Metal Oxide Varistor (MOV)

A varistor is a bipolar, non-linear resistor with symmetrical voltage-current characteristics, where the resistance decreases with increasing characteristic curve.



Transient Voltage Suppression (TVS) Diode

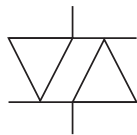
A TVS diode is a clamping device that limits voltage spikes by the low impedance avalanche breakdown of the PN junction. TVS diode contains a PN junction similar to a Zener diode but with a larger cross section, which is proportional to its surge power rating.

Voltage-switching Type SPD



Gas Discharge Tube (GDT)

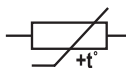
A GDT is an arrangement of electrodes in a gas within an insulating, temperature-resistant ceramic or glass cylinder.



Thyristor Surge Suppressor (TSS)

A Thyristor surge suppressor is voltage-switching device, when above a certain breakdown current, the NPNP structure regenerates and switches to a low voltage condition. The multiple PN junctions of the TSS reduce the overall capacitance.

Current Limiting Devices



Positive Temperature Coefficient Thermistor (PTC Thermistor)

PTC resistors are ceramic components whose electrical resistance rapidly increases when a certain temperature is exceeded. An overcurrent condition causes the devices to increase their resistance, thus reducing current flow.



ADV Staged Disconnection

Staged thermal disconnection of failed internal protective devices, allows for a controlled end-of-life of the SPD. Visual indication as sequential stages are disconnected, allows for planned remedial maintenance and replacement of the device before total end-of-life is reached, thereby ensuring continuous protection of the end-user equipment.



Typical SPD Technologies



SPD Based on MOV Technology

- No problems with follow current I_{fi}
- Quick response time t_A at ≤ 25 ns results in low residual voltage
- Responds well to low overvoltages
- High surge capacity up to 50 kA 10/350 μ s



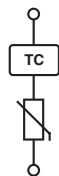
SPD Based on GDT Technology

- High surge capacity up to 100 kA 10/350 μ s
- No exhaust of ionized gases
- For TT systems as galvanic separator between N-PE conductors



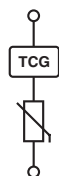
Combination (Hybrid) Type SPD Based on Combined GDT and MOV Technology

- No follow current I_{fi}
- Quick response time t_A at ≤ 25 ns results in low residual voltage
- Responds well to low overvoltages
- High surge capacity up to 25 kA 10/350 μ s
- Intended for applications without Leakage Current



Combination Type SPD with Thermal Control Function (TC)

- No follow current I_{fi}
- Quick response time t_A at ≤ 25 ns results in low residual voltage
- Responds well to low overvoltages
- High surge capacity up to 25 kA 10/350 μ s
- Thermal Control Function (TC)



Combination Type SPD with Thermal Control Function without Leakage Current (TCG)

- No follow current I_{fi}
- Quick response time t_A at ≤ 25 ns results in low residual voltage
- Responds well to low overvoltages
- High surge capacity up to 25 kA 10/350 μ s
- Thermal Control Function without Leakage Current (TCG)



SPD Based on Advanced Protection Technology

- Selective design of Metal Oxide Varistors ensures a staged end-of-life
- Stages are sequentially disconnected
- Residual protection indicated by Green > Yellow > Red flag
- IEC Class II to 50 kA (25 kA + 25 kA) 8/20
- Ideal for critical applications where a level of protection must be retained at all times - e.g. hospitals



Common Terminology

1.2/50 μ s Voltage Impulse

Voltage impulse with a nominal virtual front time of 1.2 μ s and a nominal time to half-value of 50 μ s.

8/20 μ s Current Impulse

Current impulse with a nominal virtual front time of 8 μ s and a nominal time to half-value of 20 μ s.

American Wire Gauge (AWG)

American Wire Gauge (AWG) is a standardized wire gauge system for the diameters of round, solid, nonferrous, electrically conducting wire. The larger the AWG number or wire gauge, the smaller the physical size of the wire. The smallest AWG size is 40 and the largest is 000 (4/0).

Combination Wave

The combination wave is delivered by a generator that applies a 1.2/50 μ s voltage impulse across an open circuit and an 8/20 μ s current impulse into a short circuit. The voltage, current amplitude and waveforms that are delivered to the SPD are determined by the generator impedance and the impedance of the SPD to which the surge is applied. The short-circuit current is symbolized by I_{sc} . The open-circuit voltage is symbolized by U_{oc} .

Environmental Protection Provided by Enclosure--Ingress Protection Rating (IP)

The extent of protection provided by an enclosure against access to hazardous parts, against ingress of solid foreign objects and/or against ingress of water per IEC 60529.

Follow Current Interrupt Rating I_{fi}

Prospective short-circuit current that an SPD is able to interrupt without operation of a disconnecter.

Impulse Discharge Current I_{imp} (10/350 μ s Current Impulse)

The crest value of a discharge current through SPD with specified charge transfer Q and specified energy W/R in a specified time.

Maximum Continuous Operating Voltages (U_C or MCOV)

The maximum root-mean square (RMS) or DC voltage, which may be continuously applied to the SPD's mode of protection.

Maximum Discharge Current I_{max}

Crest value of a current through the SPD having an 8/20 μ s waveshape and magnitude according to the manufacturers specifications: I_{max} is greater than I_n .

Metal Oxide Varistor (MOV)

A varistor is a bipolar, non-linear resistor with a symmetrical voltage current characteristic, where the resistance decreases with an increasing characteristic curve.

Multi-pole Surge Protective Device (SPD)

Type of SPD with more than one mode of protection, or a combination of electrically interconnected SPDs offered as a unit.

Nominal AC Voltage U_o/U_n

In TN and TT Systems: Nominal RMS AC line voltage to earth; in IT Systems: Nominal AC voltage between line conductor and neutral conductor or midpoint conductor.

Nominal Discharge Current I_n

The crest value of the current through the SPD having a current waveshape of 8/20 μ s.

Overcurrent Protection

Overcurrent device such as a circuit-breaker or fuse, which could be part of the electrical installation located externally upstream of the SPD.

Residual Voltage U_{res}

The crest value of voltage that appears between the terminals of an SPD due to the passage of discharge current.

SPD Disconnecter

Internal build-in external device required for disconnecting an SPD or part of an SPD from the power system.

SPD Mode of Protection

An intended current path, between terminals that contains protective components, e.g. line-to-line, line-to-earth, line-to-neutral and neutral-to-earth.

Short-Circuit Current I_{SCCR} per IEC 61643-11/EN 61643-11

Maximum prospective short-circuit current from the power system for which the SPD, in conjunction with the disconnecter specified, is rated.

Short Circuit Current Rating (SCCR) per UL 1449

The suitability of an SPD for use on an AC power circuit that is capable of delivery not more than a declared RMS symmetrical current at a declared voltage during a short-circuit condition.

Surge Protective Device (SPD)

A device that is intended to limit surge overvoltages and divert surge currents. It contains at least one nonlinear component.

Temporary Overvoltage Characteristics TOV

Is a behavior of a surge device which is exposed to a temporary overvoltage for certain time duration. The time can be between 5 seconds and 120 minutes.

Total Discharge Current I_{Total}

Current which flows through earth conductor of a multi-pole SPD during the total discharge current test.

Voltage Protection Level U_p

Maximum voltage to be expected at the SPD terminals due to an impulse stress with defined voltage steepness and impulse stress with a discharge current, given amplitude and waveshape.

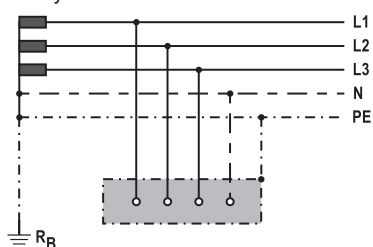
Low Voltage Power Distribution System Types



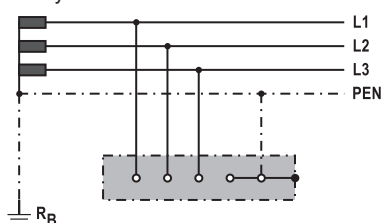
Earthing Systems

System Configuration

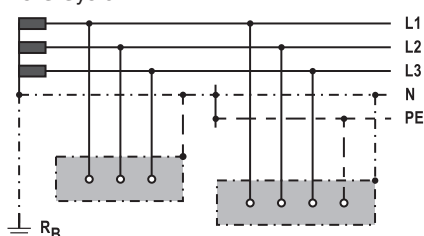
TN-S System



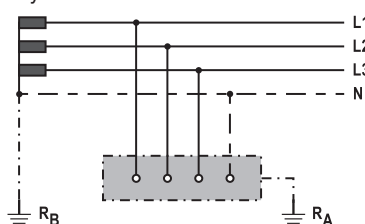
TN-C System



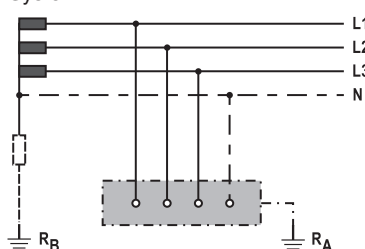
TN-C-S System



TT System



IT System



Low voltage distribution network systems are designated using two letters according to IEC 60364-4-41: 2015. The first letter describes the grounding method used at the source, the secondary side of the power distribution transformer. The second letter describes the grounding method used at the consumer's electrical installation for any conductive metal parts.

The method is used to define three basic systems:

- TN System**
- TT System**
- IT System**

The abbreviations have the following meaning:

First Letter—relationship of power system to earth

- T** Direct connection to ground of the power supply source
- I** All live parts isolated from earth, one point connected to earth through an impedance

Second Letter—grounding method used at exposed conductive parts in the electrical installation:

- T** Exposed conductive parts are directly grounded independent of the earthing of any point of the power system
- N** Exposed conductive parts are directly connected to the earthed point of the power system

Subsequent prefixes may be used to describe the arrangement of neutral and protective conductors:

- S** Neutral and protective conductor are separated
- C** Neutral and protective conductor are combined in a single conductor (PEN conductor)

Therefore, there are three possible TN sub-systems: TN-S, TN-C and TN-C-S



Live Conductor Systems

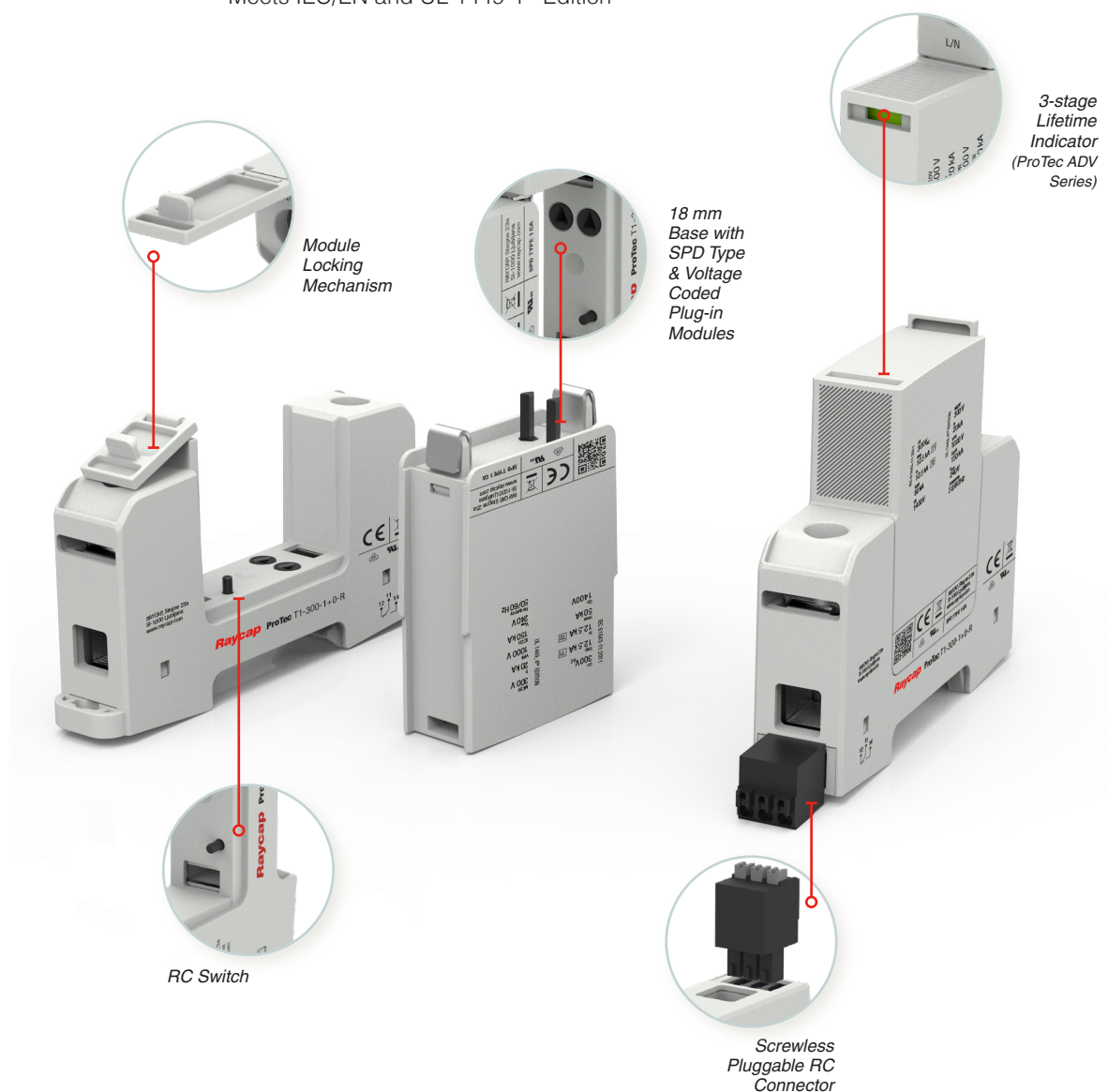
Source Configuration	Description
	Single Phase System Voltage: 110V • 120V • 220V • 240V • 277V Circuit Type: 1 ϕ , 2W + G Protection Modes: Line-Neutral
	Single Phase (Split Phase) System Voltage: 120V/240V • 240V/480V Circuit Type: 1 ϕ , 3W + G Protection Modes: Line-Neutral/Line-Line
	Three Phase WYE without Neutral System Voltage: 480V Circuit Type: 3 ϕ WYE, 3W + G Protection Modes: Line-Line
	Three Phase WYE with Neutral System Voltage: 120V/208V • 220V/380V • 230V/400V • 240V/415V • 277V/480V • 347V/600V Circuit Type: 3 ϕ WYE, 4W + G Protection Modes: Line-Neutral/Line-Line
	Delta High Leg System Voltage: 120V/240V Circuit Type: 3 $\phi\Delta$, 4W + G Protection Modes: Line-Neutral/Line-Line
	Delta Ungrounded System Voltage: 120V • 240V • 480V Circuit Type: 3 $\phi\Delta$, 3W + G Protection Modes: Line-Line
	Delta Grounded Corner System Voltage: 120V • 240V • 480V • 600V Circuit Type: 3 $\phi\Delta$, 3W + G Protection Modes: Line-Line

New Modular Single Pole & Multi-pole Surge Protective Devices



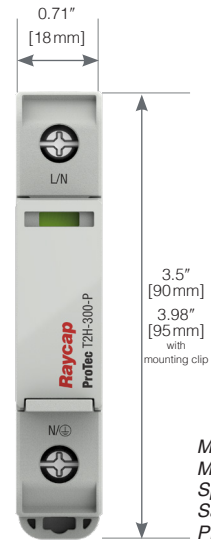
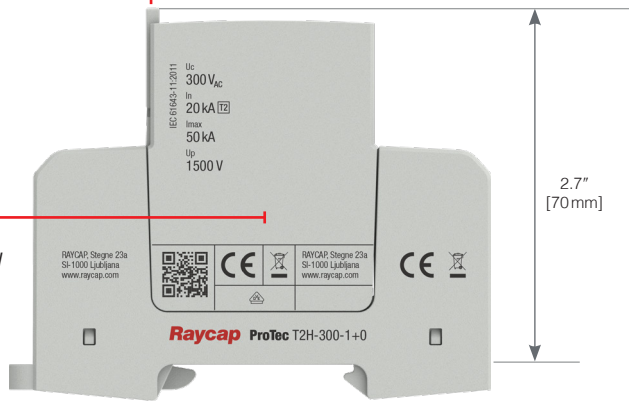
New Housing Design Features

- Contemporary design
- Low residual protection level
- Lifetime indicators
- Redesigned thermal disconnection
- Patented protection technologies
- No external back-up fuse required up to 315 A
- Vibration and shock withstand capability
- Space-saving design
- Easy replacement
- Patented module locking mechanism
- Meets IEC/EN and UL 1449 4th Edition



Patented
Locking
Mechanism

Patented
ProTec Hybrid
Technology



Modern
Modular
Space
Saving
Profile



ProTec T1-300-1+0-R



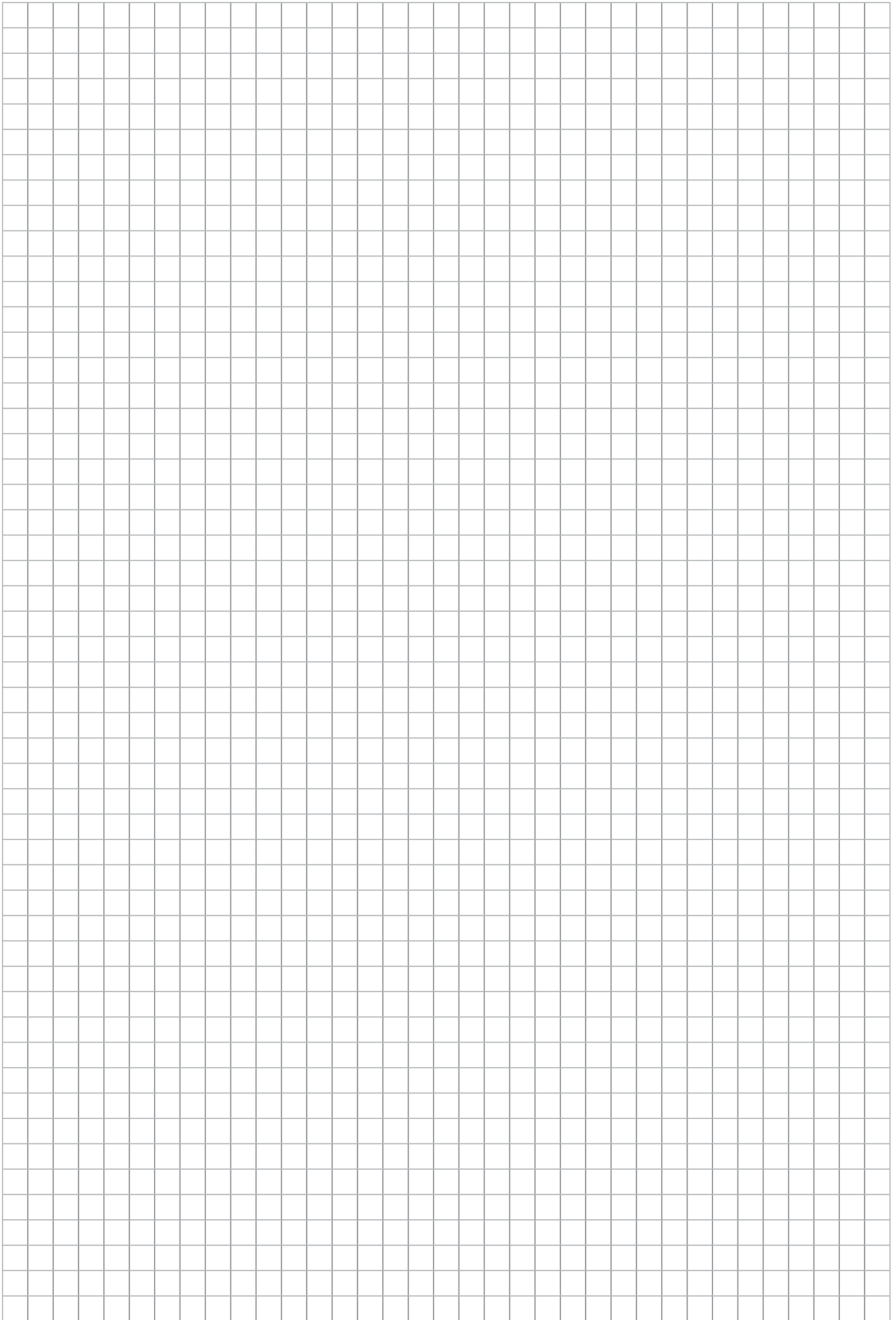
ProTec T2-300-2+0-R



ProTec T2H-300-3+0-R

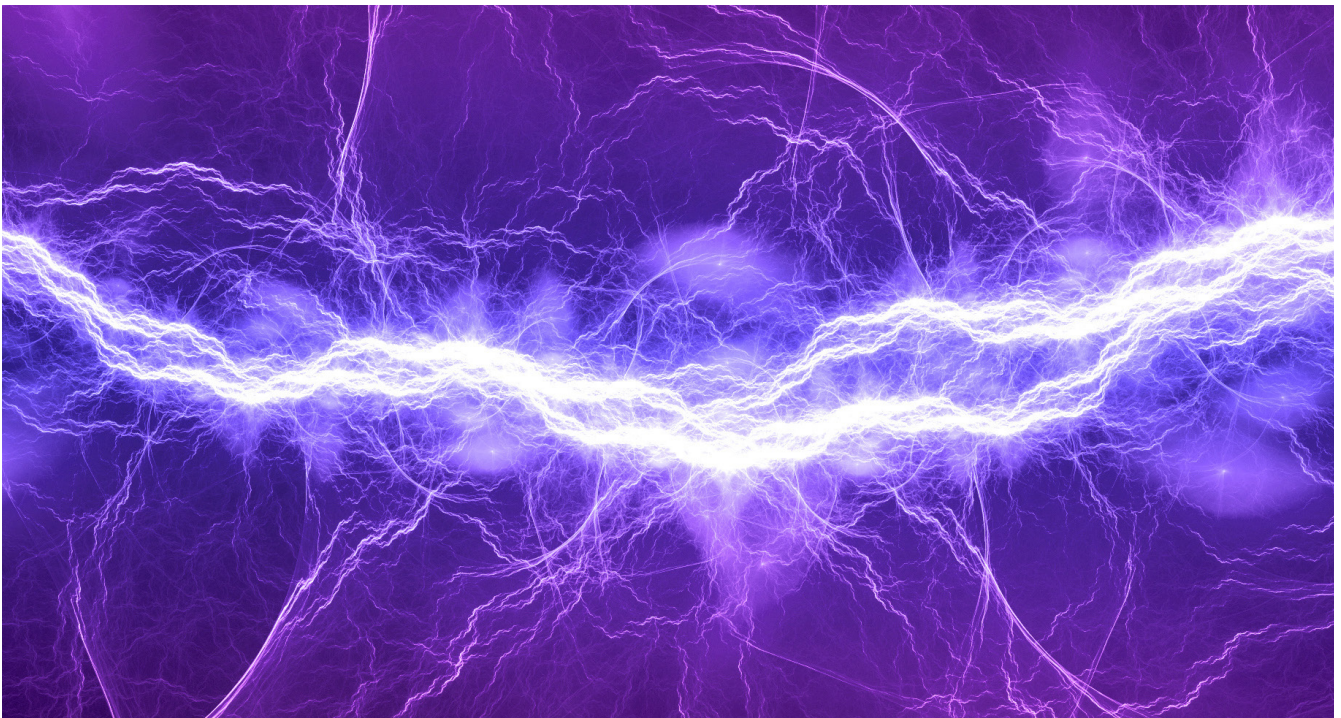


ProTec T2-300-4+0-R



Pluggable Single Pole & Multi-pole Surge Protective Devices (SPDs)

- ProTec T1 & ProTec T1-R
- ProTube T1
- ProTec T1H & ProTec T1H-R
- ProTube T1H
- ProTec T1HS & ProTec T1HS-R



Compliance	ProTec T1	ProTec T1H	ProTec T1HS
IEC 61643-11:2011	✓	✓	✓
EN 61643-11:2012	✓	✓	✓
UL 1449 4th Edition	✓		

Raycap's Type 1 (Class I) SPDs are developed as the best solution available to protect service entrance at industrial sites, especially those with existing lightning protection system or meshed cage applications. This type of surge protection can protect all electrical installations against lightning strikes by discharging the current created from a lightning surge and keeping it from spreading to the equipment. The Type 1 / Class I SPD has a 10/350 μ s current waveform.

Pluggable Single-Pole SPD

ProTec T1 1+0

Class I • Class II • Type 1 • Type 2 • Type 1CA



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 Surge Ratings: I_{imp} = up to 12.5kA (10/350 μ s)
 I_n = up to 12.5kA (8/20 μ s)
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T1-xxx-1+0(-R)		75	150	300	350	480	750
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	750V
Nominal Discharge Current (8/20 μ s)	I_n	12.5kA	12.5kA	12.5kA	12.5kA	10kA	5kA
Maximum Discharge Current (8/20 μ s)	I_{max}	50kA	50kA	50kA	50kA	50kA	35kA
Impulse Discharge Current (10/350 μ s)	I_{imp}	12.5kA	12.5kA	12.5kA	12.5kA	10kA	5kA
Specific Energy	W/R	39 kJ/ Ω	39 kJ/ Ω	39 kJ/ Ω	39 kJ/ Ω	25 kJ/ Ω	6.25 kJ/ Ω
Charge	Q	6.25 As	6.25 As	6.25 As	6.25 As	5 As	2.5 As
Voltage Protection Level	U_p	700V	1000V	1400V	1500V	2000V	2700V
Response Time	t_A	< 25 ns					
Back-Up Fuse (max)		315 A / 250 A gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA					
TOV Withstand 5s	U_T	114V	175V	337V	403V	581V	871V
TOV 120min	U_T	114V	229V	442V	529V	762V	1143V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					

UL Electrical							
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	750V
Voltage Protection Rating	VPR	330V	600V	900V	1200V	1500V	2500V
Nominal Discharge Current (8/20 μ s)	I_n	20kA	20kA	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	100kA	200kA	150kA	150kA	200kA	150kA

Mechanical & Environmental							
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]					
Permissible Operating Humidity	RH	5%...95%					
Altitude		13123 ft [4000 m]					
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]					
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)					
Mounting		35 mm DIN Rail, EN 60715					
Degree of Protection		IP 20 (built-in)					
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection		Yes					
Operating State / Fault Indication		Green Flag / Not Green Flag					
Remote Contacts (RC)		Optional					
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A					
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)					

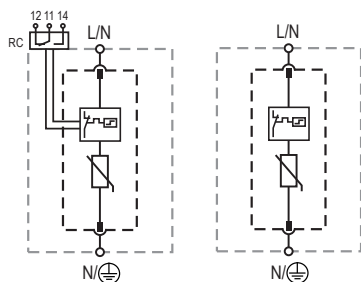
Order Information							
Order Code		75	150	300	350	480	750
ProTec T1-xxx-1+0		59.0007	59.0009	59.0011	59.0013	59.0015	59.0017
ProTec T1-xxx-1+0-R (with remote contacts)		59.0008	59.0010	59.0012	59.0014	59.0016	59.0018
ProTec T1-xxx-P		59.0001	59.0002	59.0003	59.0004	59.0005	59.0006

ProTec T1 1+0

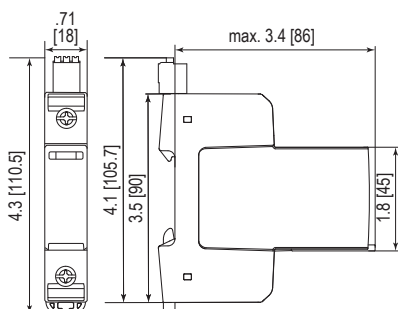
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

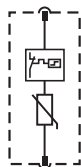


Dimensions & Packaging

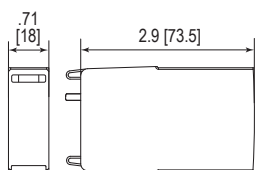
		75	150	300	350	480	750
Single Unit Weight	pounds	.355	.355	.386	.422	.430	.437
	grams	161	161	175	191	195	198
		75	150	300	350	480	750
Single Unit Weight	pounds	.371	.371	.402	.437	.446	.452
	grams	168	168	182	198	202	205
Single Unit DIN 43880 Dimension		1 TE					
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]					
Minimum Order Quantity		12 Units					

Plug Internal Configuration

ProTec T1-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	480	750
Single Unit Weight	pounds	.206	.206	.236	.272	.280	.287
	grams	93	93	107	123	127	130
Single Unit DIN 43880 Dimension		1 TE					
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]					
Minimum Order Quantity		28 Units					

Pluggable Multi-Pole SPD

ProTec T1 2+0

Class I • Class II • Type 1 • Type 2 • Type 1CA



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} =$ up to 12.5kA (10/350 μ s)
 $I_n =$ up to 12.5kA (8/20 μ s)
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T1-xxx-2+0(-R)		75	150	300	350	480	750
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	750V
Nominal Discharge Current (8/20 μ s)	I_n	12.5 kA	12.5 kA	12.5 kA	12.5 kA	10 kA	5 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA	35 kA
Impulse Discharge Current (10/350 μ s)	I_{imp}	12.5 kA	12.5 kA	12.5 kA	12.5 kA	10 kA	5 kA
Specific Energy	W/R	39 kJ/ Ω	39 kJ/ Ω	39 kJ/ Ω	39 kJ/ Ω	25 kJ/ Ω	6.25 kJ/ Ω
Charge	Q	6.25 As	6.25 As	6.25 As	6.25 As	5 As	2.5 As
Voltage Protection Level	U_p	700V	1000V	1400V	1500V	2000V	2700V
Response Time	t_A	< 25 ns					
Back-Up Fuse (max)		315 A / 250 A gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA					
TOV Withstand 5s	U_T	114V	175V	337V	403V	581V	871V
TOV 120min	U_T	114V	229V	442V	529V	762V	1143V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					

UL Electrical							
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	750V
Voltage Protection Rating	VPR	330V	600V	900V	1200V	1500V	2500V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	100 kA	200 kA	150 kA	150 kA	200 kA	150 kA

Mechanical & Environmental							
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]					
Permissible Operating Humidity	RH	5%...95%					
Altitude		13123 ft [4000m]					
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]					
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)					
Mounting		35 mm DIN Rail, EN 60715					
Degree of Protection		IP 20 (built-in)					
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection		Yes					
Operating State / Fault Indication		Green Flag / Not Green Flag					
Remote Contacts (RC)		Optional					
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A					
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)					

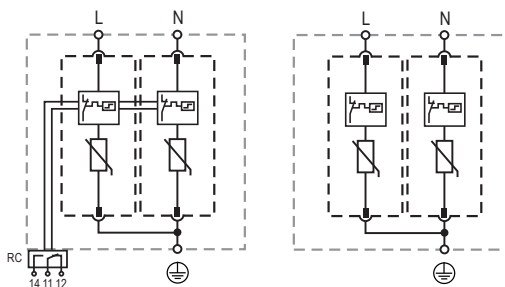
Order Information							
Order Code		75	150	300	350	480	750
ProTec T1-xxx-2+0		59.0349	59.0019	59.0021	59.0023	59.0025	59.0027
ProTec T1-xxx-2+0-R (with remote contacts)		59.0350	59.0020	59.0022	59.0024	59.0026	59.0028
ProTec T1-xxx-P		59.0001	59.0002	59.0003	59.0004	59.0005	59.0006

ProTec T1 2+0

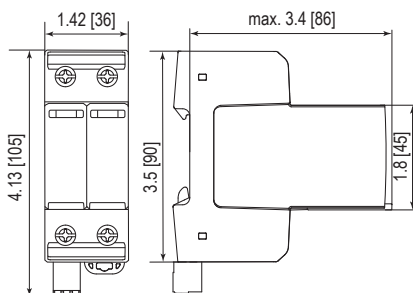
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

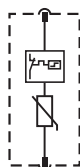


Dimensions & Packaging

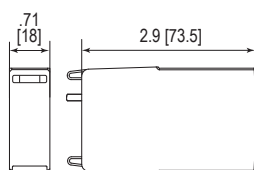
		75	150	300	350	480	750
Single Unit Weight	pounds	.697	.697	.759	.829	.847	.860
	grams	316	316	344	376	384	390
		75	150	300	350	480	750
Single Unit Weight	pounds	.717	.717	.779	.849	.867	.880
	grams	325	325	353	385	393	399
Single Unit DIN 43880 Dimension		2 TE					
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]					
Minimum Order Quantity		7 Units					

Plug Internal Configuration

ProTec T1-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	480	750
Single Unit Weight	pounds	.206	.206	.236	.272	.280	.287
	grams	93	93	107	123	127	130
Single Unit DIN 43880 Dimension		1 TE					
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]					
Minimum Order Quantity		28 Units					

Pluggable Multi-Pole SPD

ProTec T1 3+0

Class I • Class II • Type 1 • Type 2 • Type 1CA



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: I_{imp} = up to 12.5kA (10/350 μ s)
 I_n = up to 12.5kA (8/20 μ s)
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T1-xxx-3+0(-R)		150	300	350	480	750
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	120V	240V	277V	400V	600V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V	750V
Nominal Discharge Current (8/20 μ s)	I_n	12.5 kA	12.5 kA	12.5 kA	10 kA	5 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	50 kA	50 kA	50 kA	50 kA	35 kA
Impulse Discharge Current (10/350 μ s)	I_{imp}	12.5 kA	12.5 kA	12.5 kA	10 kA	5 kA
Specific Energy	W/R	39 kJ/ Ω	39 kJ/ Ω	39 kJ/ Ω	25 kJ/ Ω	6.25 kJ/ Ω
Charge	Q	6.25 As	6.25 As	6.25 As	5 As	2.5 As
Voltage Protection Level	U_p	1000V	1400V	1500V	2000V	2700V
Response Time	t_A	< 25 ns				
Back-Up Fuse (max)		315 A / 250 A gG				250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA				50 kA
TOV Withstand 5s	U_T	175V	337V	403V	581V	871V
TOV 120min	U_T	229V	442V	529V	762V	1143V
	mode	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				

UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V	750V
Voltage Protection Rating	VPR	600V	900V	1200V	1500V	2500V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	150 kA	200 kA	150 kA

Mechanical & Environmental						
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]				
Permissible Operating Humidity	RH	5%...95%				
Altitude		13123 ft [4000m]				
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green Flag / Not Green Flag				
Remote Contacts (RC)		Optional				
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)				

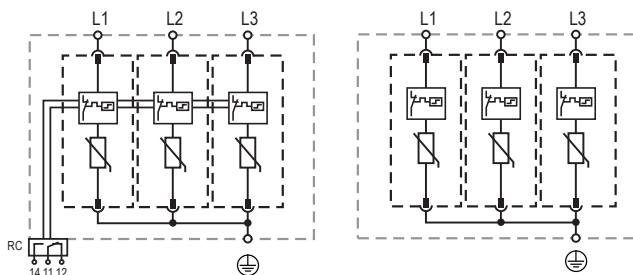
Order Information						
Order Code		150	300	350	480	750
ProTec T1-xxx-3+0		59.0029	59.0031	59.0033	59.0035	59.0037
ProTec T1-xxx-3+0-R (with remote contacts)		59.0030	59.0032	59.0034	59.0036	59.0038
ProTec T1-xxx-P		59.0002	59.0003	59.0004	59.0005	59.0006

ProTec T1 3+0

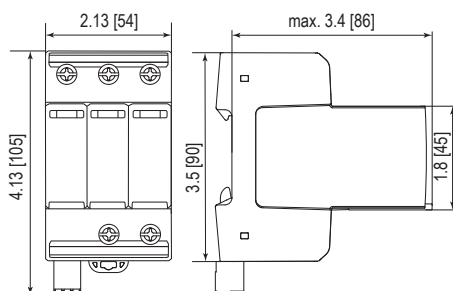
Internal Configuration

Legend

- L Line
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

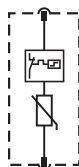


Dimensions & Packaging

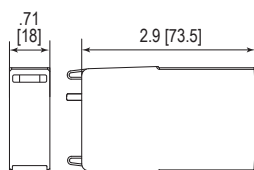
		150	300	350	480	750
ProTec T1-xxx-3+0	Single Unit Weight	pounds 1.021	1.114	1.220	1.246	1.266
		grams 463	505	553	565	574
ProTec T1-xxx-3+0-R	Single Unit Weight	pounds 1.041	1.133	1.239	1.266	1.286
		grams 472	514	562	574	583
Single Unit DIN 43880 Dimension						3 TE
Packaging Dimensions (HxWxL)						4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity						5 Units

Plug Internal Configuration

ProTec T1-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480	750
ProTec T1-xxx-P	Single Unit Weight	pounds .206	.236	.272	.280	.287
		grams 93	107	123	127	130
Single Unit DIN 43880 Dimension						1 TE
Packaging Dimensions (HxWxL)						4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity						28 Units

Pluggable Multi-Pole SPD

ProTec T1 4+0

Class I • Class II • Type 1 • Type 2 • Type 1CA



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 12.5 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T1-xxx-4+0(-R)		150	300	350	480
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U_o/U_n	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V
Nominal Discharge Current (8/20 μs)	I_n	12.5 kA	12.5 kA	12.5 kA	10 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5 kA	12.5 kA	12.5 kA	10 kA
Specific Energy	W/R	39 kJ/ Ω	39 kJ/ Ω	39 kJ/ Ω	25 kJ/ Ω
Charge	Q	6.25 As	6.25 As	6.25 As	5 As
Voltage Protection Level	U_p	1000V	1400V	1500V	2000V
Response Time	t_A	< 25 ns			
Back-Up Fuse (max)		315 A / 250 A gG			
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA			
TOV Withstand 5s	U_T	175V	337V	403V	581V
TOV 120min	U_T	229V	442V	529V	762V
	mode	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1			

UL Electrical					
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V
Voltage Protection Rating	VPR	600V	900V	1200V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	150 kA	200 kA

Mechanical & Environmental					
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)			

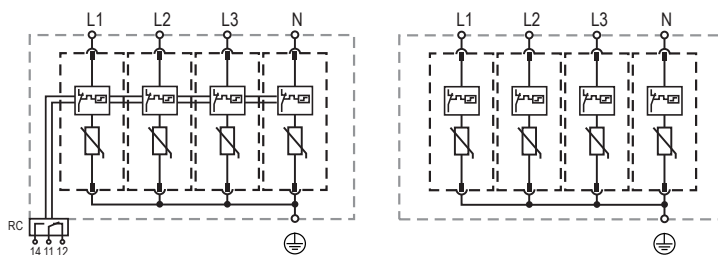
Order Information					
Order Code		150	300	350	480
ProTec T1-xxx-4+0		59.0039	59.0041	59.0351	59.0043
ProTec T1-xxx-4+0-R (with remote contacts)		59.0040	59.0042	59.0352	59.0044
ProTec T1-xxx-P		59.0002	59.0003	59.0004	59.0005

ProTec T1 4+0

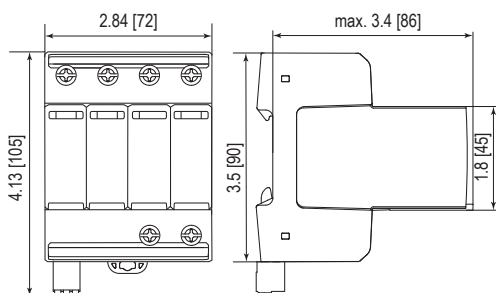
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

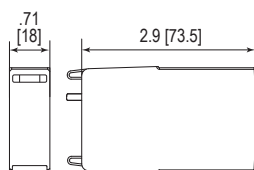
		150	300	350	480
Single Unit Weight	pounds	1.376	1.500	1.641	1.676
	grams	624	680	744	760
		150	300	350	480
Single Unit Weight	pounds	1.396	1.519	1.661	1.696
	grams	633	689	753	769
Single Unit DIN 43880 Dimension	4 TE				
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity	4 Units				

Plug Internal Configuration

ProTec T1-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480
Single Unit Weight	pounds	.206	.236	.272	.280
	grams	93	107	123	127
Single Unit DIN 43880 Dimension	1 TE				
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity	28 Units				

Pluggable Multi-Pole SPD

ProTec T1 1+1

Class I • Class II • Type 1 • Type 2 • Type 1CA



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA} (10/350\mu\text{s})$
 $I_n = 12.5 \text{ kA} (8/20\mu\text{s})$
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T1-xxx-1+1(-R)

		75	150	300	350
IEC Electrical					
Nominal AC Voltage (50/60Hz)		60 V	120 V	240 V	277 V
Maximum Continuous Operating Voltage	(L-N) U_c	75 V	150 V	300 V	350 V
	(N-PE) U_c	305 V	305 V	305 V	305 V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	12.5 kA / 50 kA			
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 100 kA			
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}	12.5 kA / 50 kA			
Specific Energy	(L-N)/(N-PE) W/R	39 kJ/ Ω / 625 kJ/ Ω			
Charge	(L-N)/(N-PE) Q	6.25 As / 25 As			
Voltage Protection Level	(L-N)/(N-PE) U_p	700 V / 1500 V	1000 V / 1500 V	1400 V / 1500 V	1500 V / 1500 V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}			
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns			
Back-Up Fuse (max)		315 A / 250 A gG			
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA / 50 kA			
TOV Withstand 5s	(L-N) U_T	114 V	175 V	337 V	403 V
TOV 120min	(L-N) U_T	114 V	229 V	442 V	529 V
		mode	Withstand	Safe Fail	Safe Fail
TOV Withstand 200ms	(N-PE) U_T	1200 V			
Number of Ports		1			

UL Electrical

Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) MCOV	75 V / 305 V	150 V / 305 V	300 V / 305 V	350 V / 305 V
Voltage Protection Rating	(L-N)/(N-PE) VPR	330 V / 1200 V	600 V / 1200 V	900 V / 1200 V	1200 V / 1200 V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 20 kA	20 kA / 20 kA	20 kA / 20 kA	20 kA / 20 kA
Short-Circuit Current Rating (AC)	(L-N) SCCR	100 kA	200 kA	150 kA	150 kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000 m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)			
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)			

Order Information

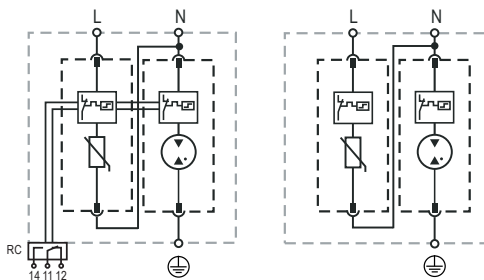
Order Code	75	150	300	350
ProTec T1-xxx-1+1	59.0047	59.0049	59.0051	59.0053
ProTec T1-xxx-1+1-R (with remote contacts)	59.0048	59.0050	59.0052	59.0054
ProTec T1-xxx-P	59.0001	59.0002	59.0003	59.0004
ProTube T1-50-P	59.0269	59.0269	59.0269	59.0269

ProTec T1 1+1

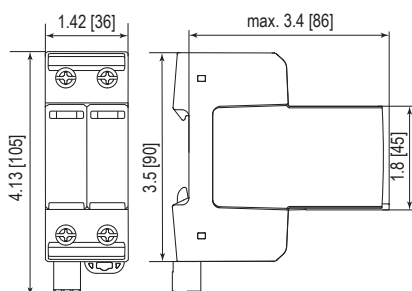
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

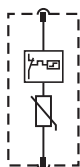


Dimensions & Packaging

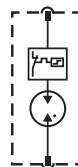
		75	150	300	350	
ProTec T1-xxx-1+1	Single Unit Weight					
		pounds	.702	.702	.732	.768
		grams	318	318	332	348
ProTec T1-xxx-1+1-R	Single Unit Weight					
		pounds	.715	.715	.746	.781
		grams	324	324	338	354
Single Unit DIN 43880 Dimension	2 TE					
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]					
Minimum Order Quantity	7 Units					

Plug Internal Configuration

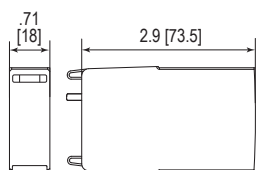
ProTec T1-xxx-P



ProTube T1-50-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	
ProTec T1-xxx-P	Single Unit Weight					
		pounds	.206	.206	.236	.272
		grams	93	93	107	123
ProTube T1-50-P				50		
Single Unit Weight	pounds [grams]	.208 [94]				
Single Unit DIN 43880 Dimension	1 TE					
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]					
Minimum Order Quantity	28 Units					

Pluggable Multi-Pole SPD

ProTec T1 3+1

Class I • Class II • Type 1 • Type 2 • Type 1CA



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 12.5 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T1-xxx-3+1(-R)

		300	350
IEC Electrical			
Nominal AC Voltage (50/60Hz)	U_o/U_n	240V	277V
Maximum Continuous Operating Voltage	(L-N) U_c	300V	350V
	(N-PE) U_c	305V	305V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	12.5 kA / 50 kA	
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 100 kA	
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}	12.5 kA / 50 kA	
Specific Energy	(L-N)/(N-PE) W/R	39 kJ/ Ω / 625 kJ/ Ω	
Charge	(L-N)/(N-PE) Q	6.25 As / 25 As	
Voltage Protection Level	(L-N)/(N-PE) U_p	1400V / 1500V	1500V / 1500V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}	
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns	
Back-Up Fuse (max)		315 A / 250 A gG	
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA / 50 kA	
TOV Withstand 5s	(L-N) U_T	337V	403V
TOV 120min	(L-N) U_T	mode	Safe Fail
		mode	Safe Fail
TOV Withstand 200ms	(N-PE) U_T	1200V	
Number of Ports		1	

UL Electrical

Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) MCOV	300V / 305V	350V / 305V
Voltage Protection Rating	(L-N)/(N-PE) VPR	900V / 1200V	1200V / 1200V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 20 kA	20 kA / 20 kA
Short-Circuit Current Rating (AC)	(L-N) SCCR	150 kA	150 kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%...95%	
Altitude		13123 ft [4000m]	
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A	
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)	

Order Information

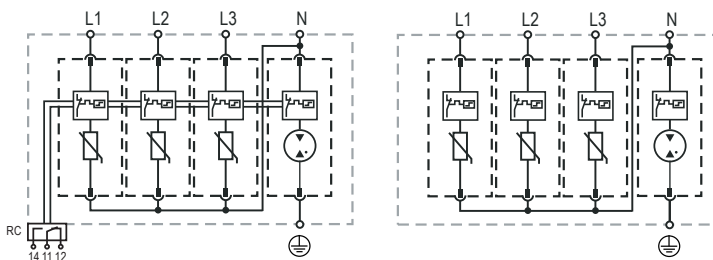
Order Code	300	350
ProTec T1-xxx-3+1	59.0059	59.0061
ProTec T1-xxx-3+1-R (with remote contacts)	59.0060	59.0062
ProTec T1-xxx-P	59.0003	59.0004
ProTube T1-50-P	59.0269	59.0269

ProTec T1 3+1

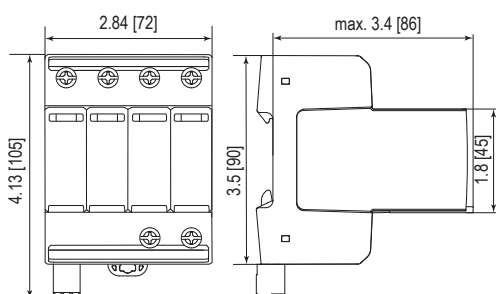
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



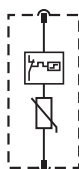
Dimensions & Packaging



Dimensions & Packaging			
ProTec T1-xxx-3+1		300	350
Single Unit Weight	pounds [grams]	1.471 [667]	1.577 [715]
ProTec T1-xxx-3+1-R		300	350
Single Unit Weight	pounds [grams]	1.491 [676]	1.597 [724]
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (HxWxL)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]	
Minimum Order Quantity		4 Units	

Plug Internal Configuration

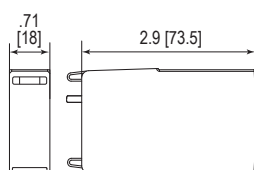
ProTec T1-xxx-P



ProTube T1-50-P



Dimensions & Packaging



Dimensions & Packaging			
ProTec T1-xxx-P		300	350
Single Unit Weight	pounds [grams]	.236 [107]	.272 [123]
ProTube T1-50-P			50
Single Unit Weight	pounds [grams]	.208 [94]	
Single Unit DIN 43880 Dimension		1 TE	
Packaging Dimensions (HxWxL)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]	
Minimum Order Quantity		28 Units	

Pluggable Single-Pole SPD

ProTube T1 50 0+1

Class I • Class II • Type 1 • Type 2 • Type 1CA



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: N-PE
 Surge Ratings: $I_{imp} = 50 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 50 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN/UL Category: Class I+II / Type 1+2 / Type 1CA
 Protective Elements: GDT with Thermal Disconnecter
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTube T1-xxx-0+1

50

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o / U_n	0V
Maximum Continuous Operating Voltage	U_c	305V
Nominal Discharge Current (8/20 μs)	I_n	50kA
Maximum Discharge Current (8/20 μs)	I_{max}	100kA
Impulse Discharge Current (10/350 μs)	I_{imp}	50kA
Specific Energy	W/R	625 kJ/ Ω
Charge	Q	25 As
Voltage Protection Level	U_p	1500V
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V
Number of Ports		1

UL Electrical

Maximum Continuous Operating Voltage (AC)	MCOV	305V
Voltage Protection Rating	VPR	1200V
Nominal Discharge Current (8/20 μs)	I_n	20kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag

Order Information

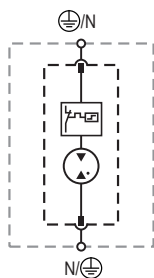
Order Code	50
ProTube T1-xxx-0+1	59.0276
ProTube T1-50-P	59.0269

ProTube T1 50 0+1

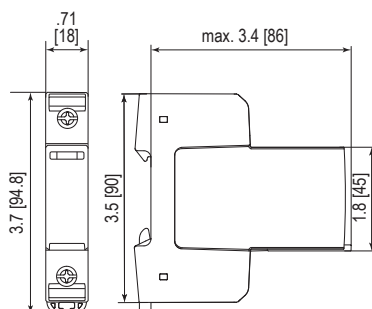
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth



Dimensions & Packaging

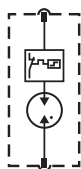


Dimensions & Packaging

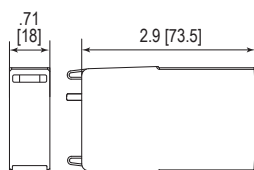
ProTube T1-xxx-0+1		50
Single Unit Weight	pounds [grams]	.390 [177]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]
Minimum Order Quantity		12 Units

Plug Internal Configuration

ProTube T1-50-P



Dimensions & Packaging



Dimensions & Packaging

ProTube T1-50-P		50
Single Unit Weight	pounds [grams]	.208 [94]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]
Minimum Order Quantity		28 Units

Pluggable Single and Multi-Pole SPD

ProTec T1H 1+0

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1H-xxx-1+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	65kA
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5kA
Specific Energy	W/R	39kJ/ Ω
Charge	Q	6.25As
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

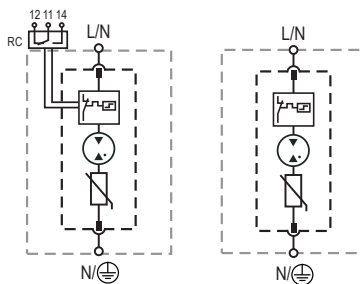
Order Code	300
ProTec T1H-xxx-1+0	59.0310
ProTec T1H-xxx-1+0-R (with remote contacts)	59.0311
ProTec T1H-xxx-P	59.0308

ProTec T1H 1+0

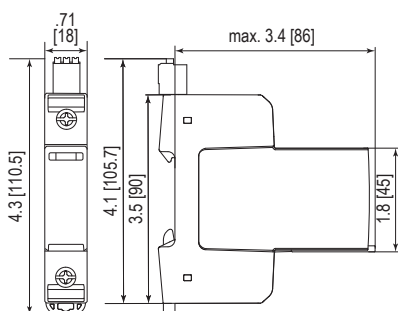
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

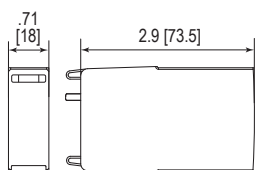
ProTec T1H-xxx-1+0	300
Single Unit Weight	pounds [grams] .437 [198]
ProTec T1H-xxx-1+0-R	300
Single Unit Weight	pounds [grams] .452 [205]
Single Unit DIN 43880 Dimension	1 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	12 Units

Plug Internal Configuration

ProTec T1H-xxx-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T1H-xxx-P	300
Single Unit Weight	pounds [grams] .286 [130]
Single Unit DIN 43880 Dimension	1 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	28 Units

Pluggable Single and Multi-Pole SPD

ProTec T1H 2+0

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1H-xxx-2+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	65kA
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5kA
Specific Energy	W/R	39kJ/ Ω
Charge	Q	6.25As
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

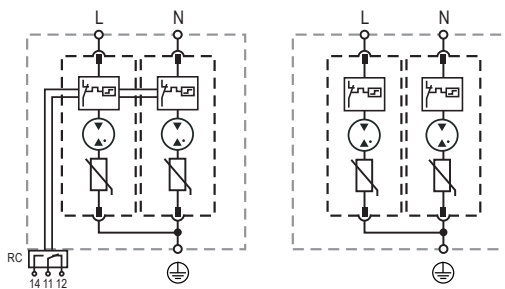
Order Code	300
ProTec T1H-xxx-2+0	59.0312
ProTec T1H-xxx-2+0-R (with remote contacts)	59.0313
ProTec T1H-xxx-P	59.0308

ProTec T1H 2+0

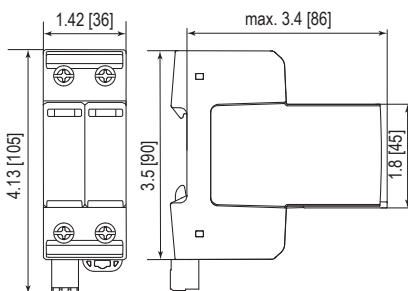
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional

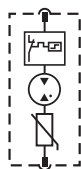


Dimensions & Packaging

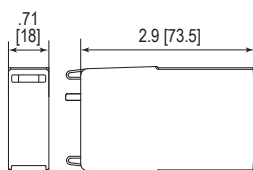


Dimensions & Packaging

ProTec T1H-xxx-2+0	300
Single Unit Weight	pounds [grams] .860 [390]
ProTec T1H-xxx-2+0-R	300
Single Unit Weight	pounds [grams] .880 [399]
Single Unit DIN 43880 Dimension	2 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	7 Units



Dimensions & Packaging



Dimensions & Packaging

ProTec T1H-xxx-P	300
Single Unit Weight	pounds [grams] .286 [130]
Single Unit DIN 43880 Dimension	1 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	28 Units

Pluggable Single and Multi-Pole SPD

ProTec T1H 3+0

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1H-xxx-3+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	65kA
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5kA
Specific Energy	W/R	39kJ/ Ω
Charge	Q	6.25As
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25ns
Back-Up Fuse (max)		315A / 250A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25kA / 50kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

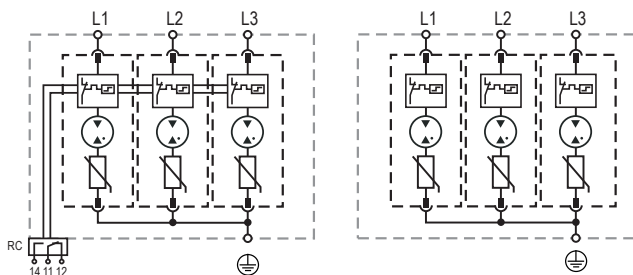
Order Code	300
ProTec T1H-xxx-3+0	59.0314
ProTec T1H-xxx-3+0-R (with remote contacts)	59.0315
ProTec T1H-xxx-P	59.0308

ProTec T1H 3+0

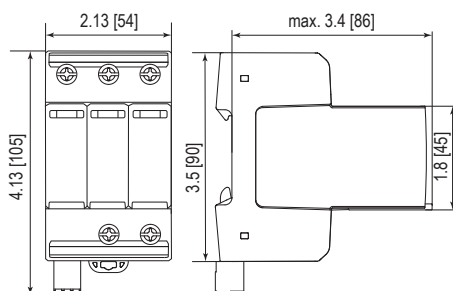
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

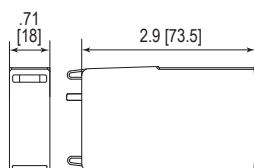
ProTec T1H-xxx-3+0		300
Single Unit Weight	pounds [grams]	1.266 [574]
ProTec T1H-xxx-3+0-R		300
Single Unit Weight	pounds [grams]	1.286 [583]
Single Unit DIN 43880 Dimension		3 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		5 Units

Plug Internal Configuration

ProTec T1H-xxx-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T1H-xxx-P		300
Single Unit Weight	pounds [grams]	.286 [130]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		28 Units

Pluggable Single and Multi-Pole SPD

ProTec T1H 4+0

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1H-xxx-4+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	65kA
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5kA
Specific Energy	W/R	39kJ/ Ω
Charge	Q	6.25As
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25ns
Back-Up Fuse (max)		315A / 250A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25kA / 50kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

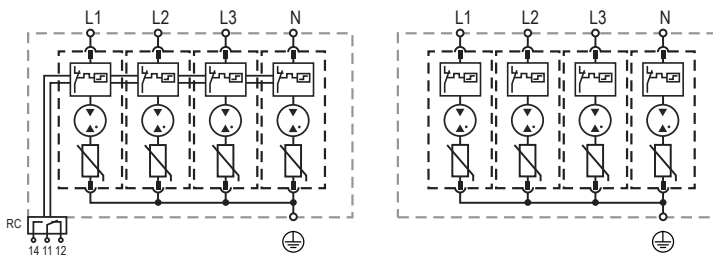
Order Code	300
ProTec T1H-xxx-4+0	59.0316
ProTec T1H-xxx-4+0-R (with remote contacts)	59.0317
ProTec T1H-xxx-P	59.0308

ProTec T1H 4+0

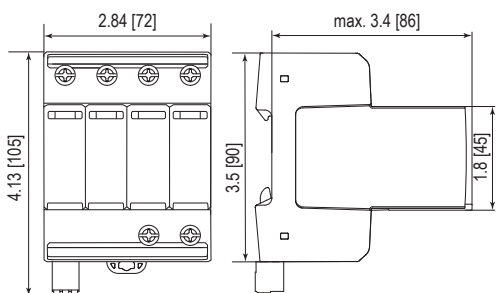
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

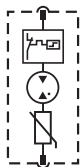


Dimensions & Packaging

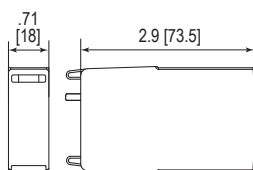
ProTec T1H-xxx-4+0		300
Single Unit Weight	pounds [grams]	1.721 [781]
ProTec T1H-xxx-4+0-R		300
Single Unit Weight	pounds [grams]	1.737 [788]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		4 Units

Plug Internal Configuration

ProTec T1H-xxx-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T1H-xxx-P		300
Single Unit Weight	pounds [grams]	.286 [130]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		28 Units

Pluggable Single and Multi-Pole SPD

ProTec T1H 1+1

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1H-xxx-1+1(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o / U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) / (N-PE) U_c	300V / 305V
Nominal Discharge Current (8/20 μs)	(L-N) / (N-PE) I_n	20 kA / 50 kA
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE) I_{max}	65 kA / 100 kA
Impulse Discharge Current (10/350 μs)	(L-N) / (N-PE) I_{imp}	12.5 kA / 50 kA
Specific Energy	(L-N) / (N-PE) W/R	39 kJ/ Ω / 625 kJ/ Ω
Charge	(L-N) / (N-PE) Q	6.25 As / 25 As
Voltage Protection Level	(L-N) / (N-PE) U_p	1500V / 1500V
Response Time	(L-N) / (N-PE) t_A	< 25 ns / < 100 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA / 50 kA
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}
TOV Withstand 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000 m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

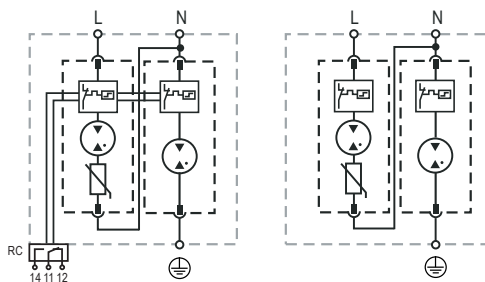
Order Code	300
ProTec T1H-xxx-1+1	59.0318
ProTec T1H-xxx-1+1-R (with remote contacts)	59.0319
ProTec T1H-xxx-P	59.0308
ProTube T1H-50-P	59.0309

ProTec T1H 1+1

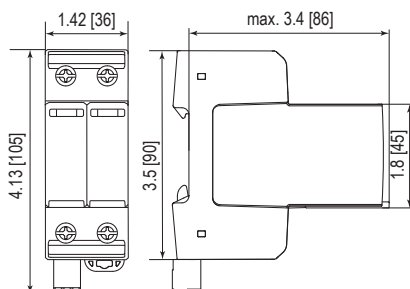
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

ProTec T1H-xxx-1+1		300
Single Unit Weight	pounds [grams]	.795 [361]
ProTec T1H-xxx-1+1-R		300
Single Unit Weight	pounds [grams]	.811 [368]
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		7 Units

Plug Internal Configuration

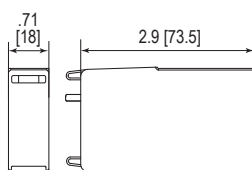
ProTec T1H-xxx-P



ProTube T1H-50-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T1H-xxx-P		300
Single Unit Weight	pounds [grams]	.286 [130]
ProTube T1H-50-P		50
Single Unit Weight	pounds [grams]	.208 [94]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		28 Units

Pluggable Single and Multi-Pole SPD

ProTec T1H 3+1

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1H-xxx-3+1(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) / (N-PE) U_c	300V / 305V
Nominal Discharge Current (8/20 μs)	(L-N) / (N-PE) I_n	20 kA / 50 kA
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE) I_{max}	65 kA / 100 kA
Impulse Discharge Current (10/350 μs)	(L-N) / (N-PE) I_{imp}	12.5 kA / 50 kA
Specific Energy	(L-N) / (N-PE) W/R	39 kJ/ Ω / 625 kJ/ Ω
Charge	(L-N) / (N-PE) Q	6.25 As / 25 As
Voltage Protection Level	(L-N) / (N-PE) U_p	1500V / 1500V
Response Time	(L-N) / (N-PE) t_A	< 25 ns / < 100 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA / 50 kA
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}
TOV Withstand 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

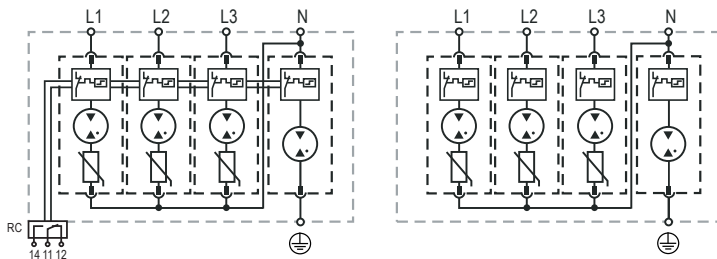
Order Code	300
ProTec T1H-xxx-3+1	59.0320
ProTec T1H-xxx-3+1-R (with remote contacts)	59.0321
ProTec T1H-xxx-P	59.0308
ProTube T1H-50-P	59.0309

ProTec T1H 3+1

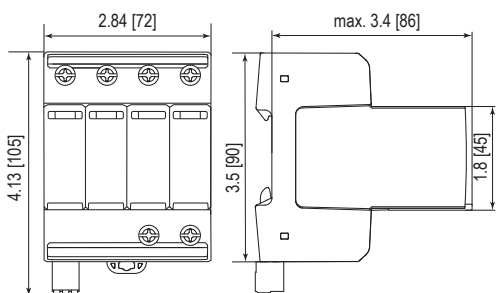
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

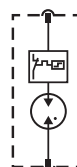
ProTec T1H-xxx-3+1		300
Single Unit Weight	pounds [grams]	1.657 [752]
ProTec T1H-xxx-3+1-R		300
Single Unit Weight	pounds [grams]	1.642 [745]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		4 Units

Plug Internal Configuration

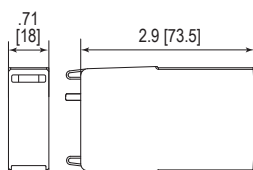
ProTec T1H-xxx-P



ProTube T1H-50-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T1H-xxx-P		300
Single Unit Weight	pounds [grams]	.286 [130]
ProTube T1H-50-P		50
Single Unit Weight	pounds [grams]	.208 [94]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		28 Units

Pluggable Single and Multi-Pole SPD
ProTube T1H 50 0+1
 Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: N-PE
 Surge Ratings: $I_{imp} = 50 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 50 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: High Energy GDT with
 Thermal Disconnecter
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTube T1H-xxx-0+1

50

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	0V
Maximum Continuous Operating Voltage (AC)	U_c	305V
Nominal Discharge Current (8/20 μs)	I_n	50kA
Maximum Discharge Current (8/20 μs)	I_{max}	100kA
Impulse Discharge Current (10/350 μs)	I_{imp}	50kA
Specific Energy	W/R	625 kJ/ Ω
Charge	Q	25As
Voltage Protection Level	U_p	1500V
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag

Order Information

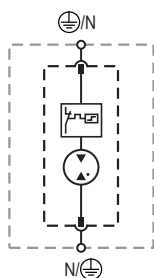
Order Code		50
ProTube T1H-xxx-0+1		59.0340
ProTube T1H-50-P		59.0309

ProTube T1H 50 0+1

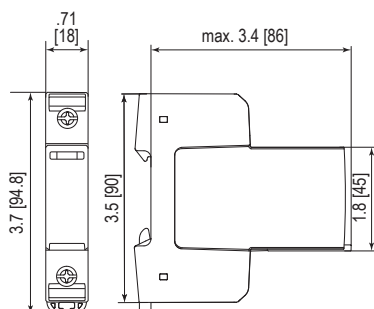
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth



Dimensions & Packaging

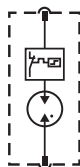


Dimensions & Packaging

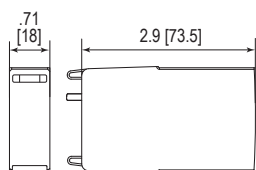
ProTube T1H-50-0+1		50
Single Unit Weight	pounds [grams]	.390 [177]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		12 Units

Plug Internal Configuration

ProTube T1H-50-P



Dimensions & Packaging



Dimensions & Packaging

ProTube T1H-50-P		50
Single Unit Weight	pounds [grams]	.208 [94]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		28 Units

Pluggable Multi-Pole SPD
ProTec T1HS 3+0
 Class I • Class II • Type 1 • Type 2

25kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 25 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT (L-N) in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1HS-xxx-3+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	25kA
Maximum Discharge Current (8/20 μs)	I_{max}	65kA
Impulse Discharge Current (10/350 μs)	I_{imp}	25kA
Specific Energy	W/R	156.2 kJ/ Ω
Charge	Q	12.5 As
Voltage Protection Level	U_p	1500V
Rated Load Current	I_L	125 A
Response Time	t_A	$\leq 100 \text{ ns}$
Back-Up Fuse (max)		315 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

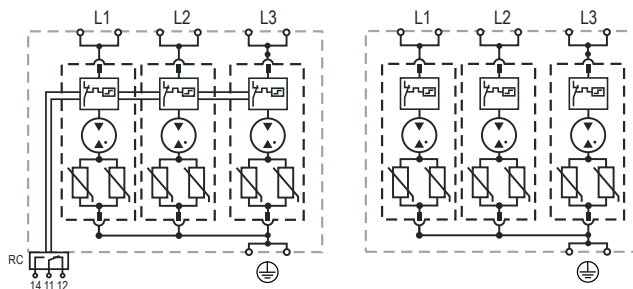
Order Information

Order Code	300
ProTec T1HS-xxx-3+0	59.0304
ProTec T1HS-xxx-3+0-R (with remote contacts)	59.0305
ProTec T1HS-xxx-P	59.0302

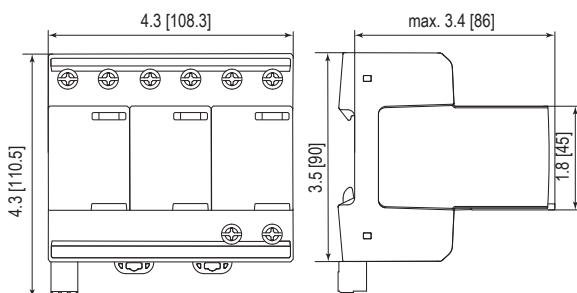
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



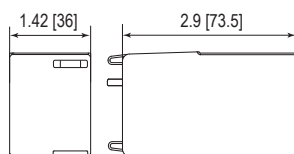
Dimensions & Packaging	
ProTec T1HS-xxx-3+0	300
Single Unit Weight pounds [grams]	0.72 [330]
ProTec T1HS-xxx-3+0-R	300
Single Unit Weight pounds [grams]	0.74 [337]
Single Unit DIN 43880 Dimension	6 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	2 Units

Plug Internal Configuration

ProTec T1HS-xxx-P



Dimensions & Packaging



Dimensions & Packaging	
ProTec T1HS-xxx-P	300
Single Unit Weight pounds [grams]	0.34 [155]
Single Unit DIN 43880 Dimension	2 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	14 Units

Pluggable Multi-Pole SPD
ProTec T1HS 3+1
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 25 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: GDT (L-N) in series with High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T1HS-xxx-3+1(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) / (N-PE) U_c	300V / 305V
Nominal Discharge Current (8/20 μs)	(L-N) / (N-PE) I_n	25 kA / 100 kA
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE) I_{max}	65 kA / 130 kA
Impulse Discharge Current (10/350 μs)	(L-N) / (N-PE) I_{imp}	25 kA / 100 kA
Specific Energy	(L-N) / (N-PE) W/R	156.2 kJ/ Ω / 2500 kJ/ Ω
Charge	(L-N) / (N-PE) Q	12.5 As / 50 As
Voltage Protection Level	(L-N) / (N-PE) U_p	1500V / 1500V
Rated Load Current	I_L	125 A
Response Time	(L-N) / (N-PE) t_A	$\leq 100 \text{ ns} / \leq 100 \text{ ns}$
Back-Up Fuse (max)		315 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

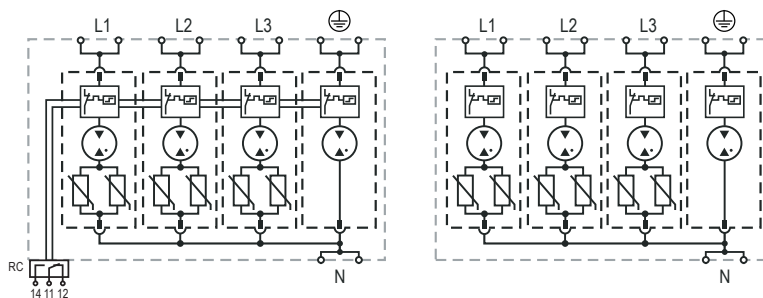
Order Information

Order Code	300
ProTec T1HS-xxx-3+1	59.0306
ProTec T1HS-xxx-3+1-R (with remote contacts)	59.0307
ProTec T1HS-xxx-P	59.0302
ProTube T1HS-100-P	59.0303

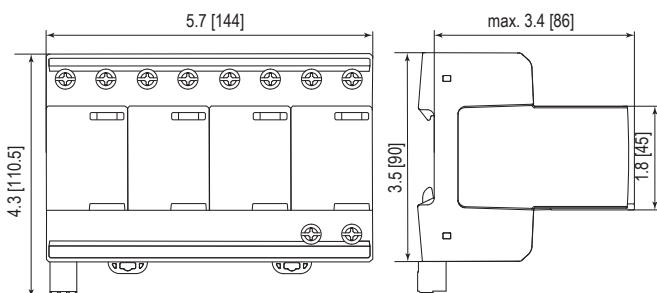
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



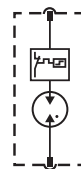
Dimensions & Packaging	
ProTec T1HS-xxx-3+1	300
Single Unit Weight pounds [grams]	0.92 [420]
ProTec T1HS-xxx-3+1-R	300
Single Unit Weight pounds [grams]	0.94 [427]
Single Unit DIN 43880 Dimension	8 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	2 Units

Plug Internal Configuration

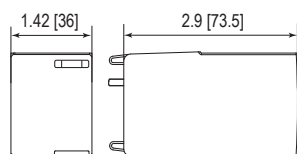
ProTec T1HS-xxx-P



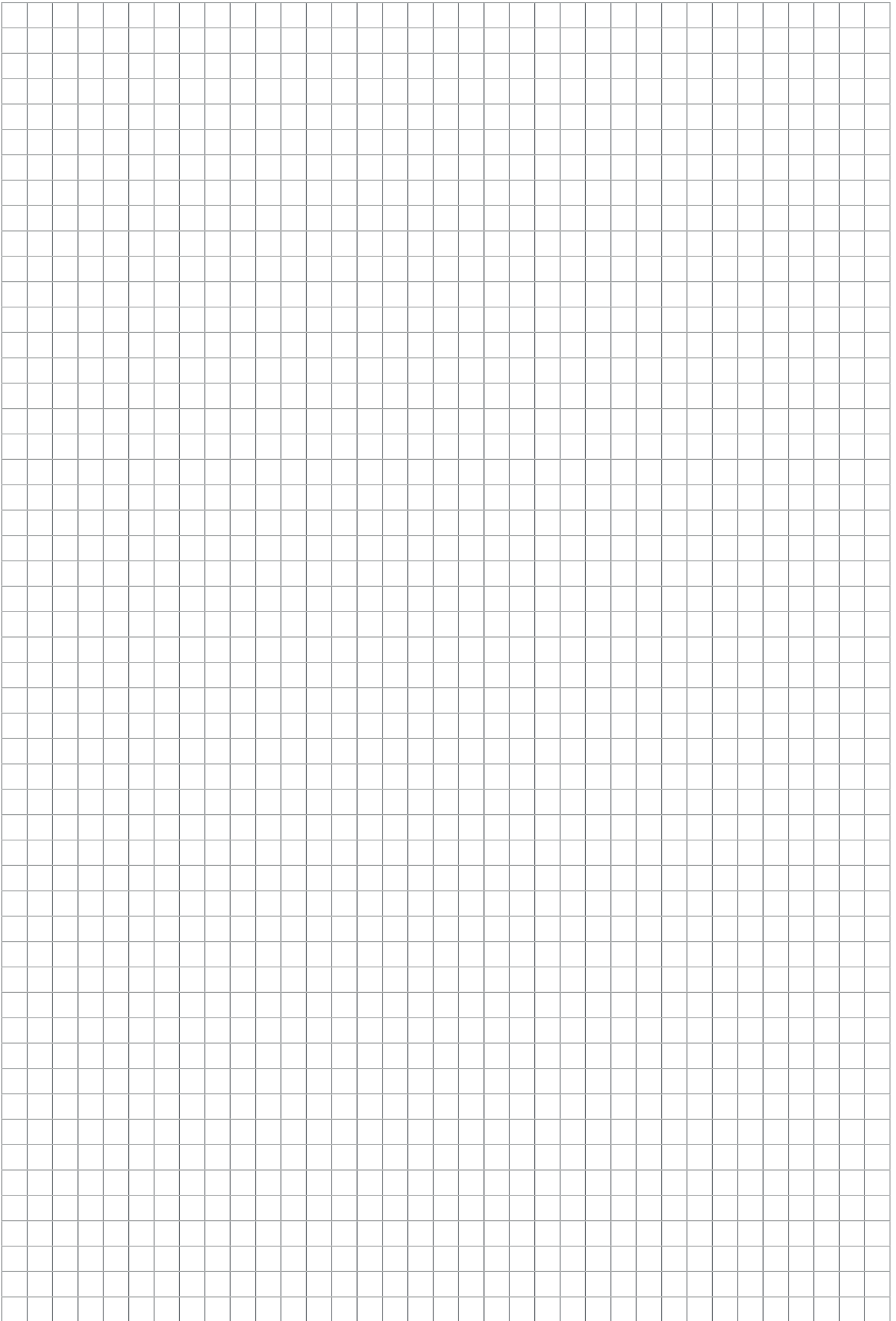
ProTube T1HS-100-P



Dimensions & Packaging



Dimensions & Packaging	
ProTec T1HS-xxx-P	300
Single Unit Weight pounds [grams]	0.34 [155]
ProTube T1HS-100-P	100
Single Unit Weight pounds [grams]	0.26 [120]
Single Unit DIN 43880 Dimension	2 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	14 Units



Compact Single Pole & Multi-pole Surge Protective Devices (SPDs)

- ProTec ZP T1H-R
- ProBloc B & ProBloc BR
- ProTube B
- SafeBloc B & SafeBloc BR
- SafeTube B



Combined Lightning Current and Surge Arrester

ProTec ZP T1H 3+0

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards,
40mm Busbar Systems

Network Systems: TN-C

Mode of Protection: L-PEN

Surge Ratings: $I_{imp} = 12.5\text{ kA}$ (10/350 μs)
 $I_n = 20\text{ kA}$ (8/20 μs)

IEC/EN: Class I+II / Type 1+2

Technology: Hybrid

Protective Elements: GDT in series with High Energy MOV

Leakage Current: No

Line Follow Current: No

Housing: Compact design

Compliance: IEC 61643-11:2011

EN 61643-11:2012

Technical Data

ProTec ZP T1H-xxx-3+0-R

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	230/400V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5kA
Specific Energy	W/R	39kJ/ Ω
Charge	Q	6.25As
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 100ns
Back-Up Fuse (max)		315A gG / 250A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25kA / 50kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

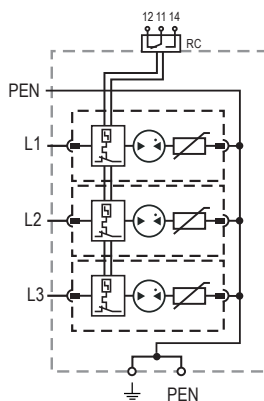
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		35mm ² (Solid, Stranded) / 25mm ² (Flexible) 2 AWG (Solid, Stranded) / 4 AWG (Flexible)
Mounting		40mm Busbar Systems
Degree Of Protection		IP 30 (in combination with cover)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Function Monitoring		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Yes
RC Switching Capacity		AC: 250V/ 1A, 125V/ 1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)

Order Information

Order Code	300
ProTec ZP T1H-xxx-3+0-R	59.0360

ProTec ZP T1H 3+0

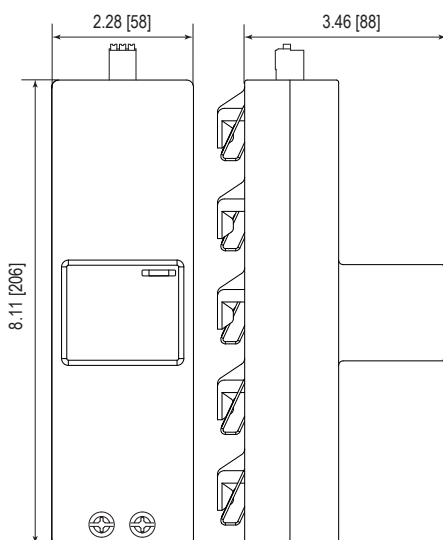
Internal Configuration



Legend

- L Line
- ⊥ Protective Earth
- PEN Combined Protective Ground & Neutral

Dimensions & Packaging



Dimensions & Packaging

ProTec ZP T1H-xxx-3+0-R		300
Single Unit Weight	pounds [grams]	2.217 [1006]
Single Unit		3 modules
Packaging Dimensions (HxWxL)		2.9 x 4.5 x 8.6" [75 x 116 x 220 mm]
Minimum Order Quantity		1 Unit

Combined Lightning Current and Surge Arrester

ProTec ZP T1H 3+1

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards,
40mm Busbar Systems

Network Systems: TN-S, TT

Mode of Protection: L-N,N-PE (L-PE only at TN-S systems)

Surge Ratings: $I_{imp} = 12.5\text{ kA}$ (10/350 μs)

$I_n = 20\text{ kA}$ (8/20 μs)

IEC/EN: Class I+II / Type 1+2

Technology: Hybrid

Protective Elements: GDT in series with High Energy MOV

Leakage Current: No

Line Follow Current: No

Housing: Compact design

Compliance: IEC 61643-11:2011

EN 61643-11:2012

Technical Data

ProTec ZP T1H-xxx-3+1-R

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	230/400V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	300V
	(N-PE) U_c	305V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20kA / 80kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50kA / 100kA
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}	12.5kA / 50kA
Specific Energy	(L-N)/(N-PE) W/R	39kJ/ Ω / 625kJ/ Ω
Charge	(L-N)/(N-PE) Q	6.25As / 25As
Voltage Protection Level	(L-N)/(N-PE) U_p	1500V / 1500V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100A _{RMS}
Response Time	(L-N)/(N-PE) t_A	< 100ns / < 100ns
Back-Up Fuse (max)		315A gG / 250A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25kA / 50kA
TOV Withstand 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1

Mechanical & Environmental

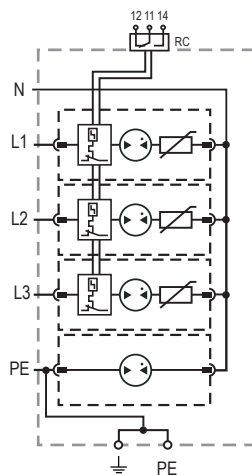
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		35mm ² (Solid, Stranded) / 25mm ² (Flexible)
		2 AWG (Solid, Stranded) / 4 AWG (Flexible)
Mounting		40mm Busbar Systems
Degree Of Protection		IP 30 (in combination with cover)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Function Monitoring		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Yes
RC Switching Capacity		AC: 250V/ 1A, 125V/ 1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)

Order Information

Order Code	300
ProTec ZP T1H-xxx-3+1-R	59.0361

ProTec ZP T1H 3+1

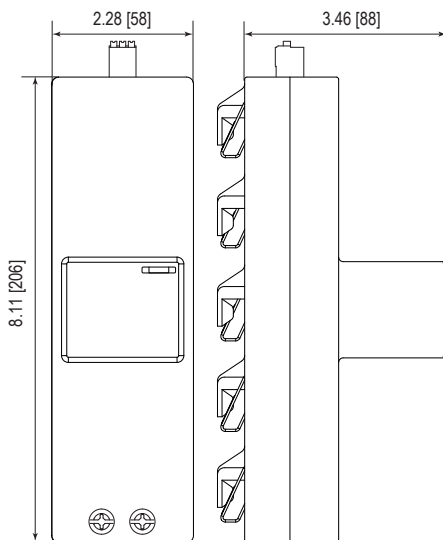
Internal Configuration



Legend

- L Line
- ⊥ Protective Earth
- PE Protective Ground

Dimensions & Packaging



Dimensions & Packaging

ProTec ZP T1H-xxx-3+1-R		300
Single Unit Weight	pounds [grams]	2.239 [1016]
Single Unit		3 modules
Packaging Dimensions (HxWxL)		2.9 x 4.5 x 8.6" [75 x 116 x 220 mm]
Minimum Order Quantity		1 Unit

Compact Single Pole SPD
ProBloc B(R) 12.5 (1+0)
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE, L-PEN, L-N
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

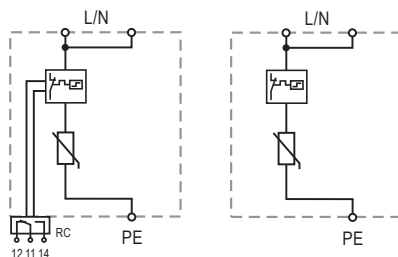
ProBloc B(R) 12.5/xxx (1+0)		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		20 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA		
Specific Energy	W/R		39 kJ/ Ω		
Charge	Q		6.25 As		
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5A; 125V/3A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			
Order Information					
Order Code		150	275	320	440
ProBloc B 12.5/xxx (1+0)		56.0500	56.0502	56.0504	56.0508
ProBloc BR 12.5/xxx (1+0) (with remote contacts)		56.0501	56.0503	56.0505	56.0509

*OVE Certified

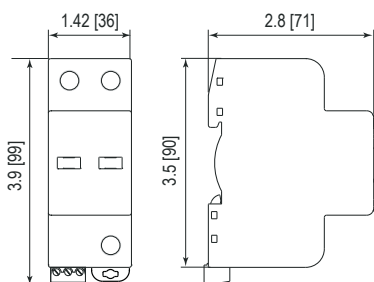
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging					
ProBloc B 12.5/xxx (1+0)					
Single Unit Weight	pounds	150	275	320	440
	grams	.330	.440	.440	.661
		150	200	200	300
Single Unit DIN 43880 Dimension		2 TE			
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42mm]			
Minimum Order Quantity		7 Units			
ProBloc BR 12.5/xxx (1+0)					
Single Unit Weight	pounds	150	275	320	440
	grams	.341	.451	.451	.672
		155	205	205	305
Single Unit DIN 43880 Dimension		2 TE			
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42mm]			
Minimum Order Quantity		7 Units			

Compact Multi-pole SPD
ProBloc B(R) 25 (2+0)
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

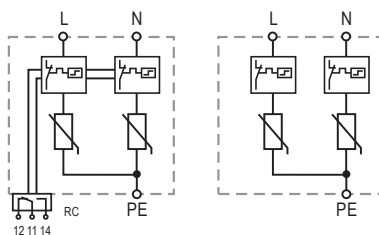
ProBloc B(R) 25/xxx (2+0)		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		20 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA		
Total Discharge Current (10/350 μs)	I_{total}		25 kA		
Specific Energy	W/R		39 kJ/ Ω		
Charge	Q		6.25 As		
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5A; 125V/3A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			
Order Information					
Order Code		150	275	320	440
ProBloc B 25/xxx (2+0)		56.0512	56.0514	56.0516	56.0520
ProBloc BR 25/xxx (2+0) (with remote contacts)		56.0513	56.0515	56.0517	56.0521

*OVE Certified

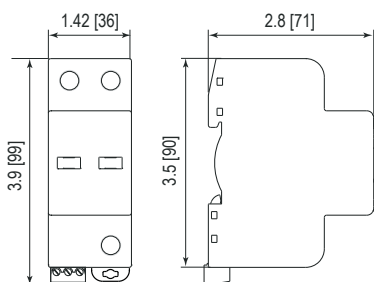
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

ProBloc B 25/xxx (2+0)				
	150	275	320	440
Single Unit Weight	pounds	.407	.496	.826
	grams	185	225	375
Single Unit DIN 43880 Dimension	2 TE			
Packaging Dimensions (H x W x L)	4.2 x 3 x 1.6" [109 x 77 x 42 mm]			
Minimum Order Quantity	7 Units			
ProBloc BR 25/xxx (2+0)				
	150	275	320	440
Single Unit Weight	pounds	.418	.507	.837
	grams	190	230	380
Single Unit DIN 43880 Dimension	2 TE			
Packaging Dimensions (H x W x L)	4.2 x 3 x 1.6" [109 x 77 x 42 mm]			
Minimum Order Quantity	7 Units			

Compact Multi-pole SPD
ProBloc B(R) 37.5 (3+0)
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L - PEN
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProBloc B(R) 37.5/xxx (3+0)

		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n	20 kA			
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA			
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5 kA			
Total Discharge Current (10/350 μs)	I_{total}	37.5 kA			
Specific Energy	W/R	39 kJ/ Ω			
Charge	Q	6.25 As			
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A	< 25 ns			
Back-Up Fuse (if mains > 250 A)		250 A gG			
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA			
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports		1			

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5A; 125V/3A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			

Order Information

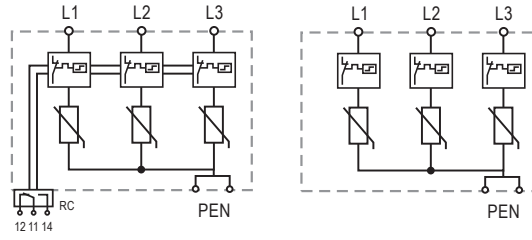
Order Code	150	275	320	440
ProBloc B 37.5/xxx (3+0)	56.0522	56.0524	56.0526	56.0530
ProBloc BR 37.5/xxx (3+0) (with remote contacts)	56.0523	56.0525	56.0527	56.0531

*OVE Certified

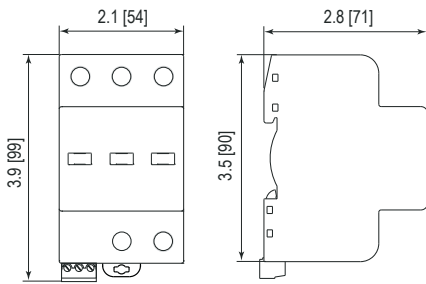
Internal Configuration

Legend

- L Line
- N Neutral
- PEN Combined Protective Earth and Neutral
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging					
ProBloc B 37.5/xxx (3+0)					
Single Unit Weight	pounds	150	275	320	440
	grams	.639	.727	.727	1.058
		290	330	330	480
Single Unit DIN 43880 Dimension			3 TE		
Packaging Dimensions (H x W x L)			4.2 x 3 x 2.3" [109 x 77 x 60 mm]		
Minimum Order Quantity			5 Units		
ProBloc BR 37.5/xxx (3+0)					
Single Unit Weight	pounds	150	275	320	440
	grams	.661	.727	.727	1.080
		300	330	330	490
Single Unit DIN 43880 Dimension			3 TE		
Packaging Dimensions (H x W x L)			4.2 x 3 x 2.3" [109 x 77 x 60 mm]		
Minimum Order Quantity			5 Units		

Compact Multi-pole SPD
ProBloc B(R) 50 (4+0)
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProBloc B(R) 50/xxx (4+0)	150	275*	320*	440
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Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		20 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA		
Total Discharge Current (10/350 μs)	I_{total}		50 kA		
Specific Energy	W/R		39 kJ/ Ω		
Charge	Q		6.25 As		
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		

Mechanical & Environmental				
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]		
Permissible Humidity	RH	5%...95%		
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]		
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)		
Mounting		35 mm DIN Rail, EN 60715		
Degree of Protection		IP 20 (built-in)		
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0		
Thermal Protection		Yes		
Fault Indication		Red Flag		
Remote Contacts (RC)		Optional		
RC Switching Capacity		AC: 250V/0.5A; 125V/3A		
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)		
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]		

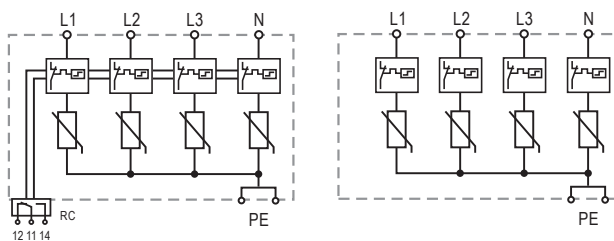
Order Information					
Order Code		150	275	320	440
ProBloc B 50/xxx (4+0)		56.0532	56.0534	56.0536	56.0540
ProBloc BR 50/xxx (4+0) (with remote contacts)		56.0533	56.0535	56.0537	56.0541

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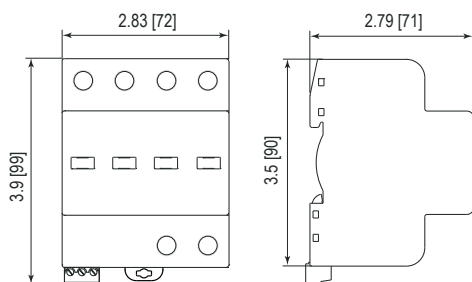
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging					
ProBloc B 50/xxx (4+0)		150	275	320	440
Single Unit Weight	pounds	1.212	1.521	1.521	1.631
	grams	550	590	590	740
Single Unit DIN 43880 Dimension				4 TE	
Packaging Dimensions (H x W x L)				4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity				3 Units	
ProBloc BR 50/xxx (4+0)		150	275	320	440
Single Unit Weight	pounds	1.234	1.234	1.322	1.653
	grams	560	560	600	750
Single Unit DIN 43880 Dimension				4 TE	
Packaging Dimensions (H x W x L)				4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity				3 Units	

Compact Multi-pole SPD
ProBloc B(R) 25 (1+1)
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L - N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA} / 50 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 20 \text{ kA} / 50 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

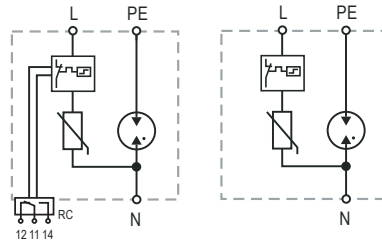
ProBloc B(R) 25/xxx (1+1)		150	275*	320*
Electrical				
Nominal AC Voltage (50/60Hz)	U_o	120V	230V	230V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	150V	275V	320V
	(N-PE) U_c		255V	
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n		20 kA / 50 kA	
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}		50 kA / 100 kA	
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}		12.5 kA / 50 kA	
Total Discharge Current (10/350 μs)	I_{total}		25 kA	
Specific Energy	(L-N)/(N-PE) W/R		39 kJ/ Ω / 625 kJ/ Ω	
Charge	(L-N)/(N-PE) Q		6.25 As / 25 As	
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.0kV / < 1.5kV	< 1.5kV / < 1.5kV	< 1.5kV / < 1.5kV
Follow Current Interrupt Rating	((N-PE) I_{fi}		100 A _{RMS}	
Response Time	(L-N)/(N-PE) t_A		< 25 ns / < 100 ns	
Back-Up Fuse (if mains > 250 A)			250 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA	
TOV Withstand 5s	(L-N) U_T	174V	334V	334V
TOV Safe Fail 120min	(L-N) U_T	229V	438V	438V
TOV Withstand 200ms	(N-PE) U_T		1200V / 300 A	
Number of Ports			1	
Mechanical & Environmental				
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]		
Permissible Humidity	RH	5%...95%		
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]		
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)		
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)		
Mounting		35 mm DIN Rail, EN 60715		
Degree of Protection		IP 20 (built-in)		
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0		
Thermal Protection	(L-N)/(N-PE)	Yes/No		
Fault Indication	(L-N)/(N-PE)	Red Flag/No		
Remote Contacts (RC)		Optional		
RC Switching Capacity		AC: 250V/0.5A; 125V/3A		
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)		
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]		
Order Information				
Order Code		150	275	320
ProBloc B 25/xxx (1+1)		56.0542	56.0544	56.0546
ProBloc BR 25/xxx (1+1) (with remote contacts)		56.0543	56.0545	56.0547

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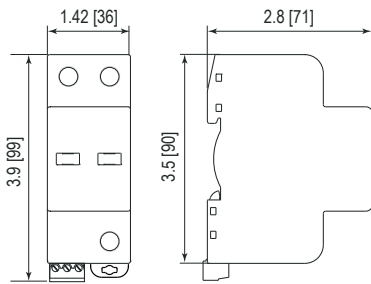
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging			
ProBloc B 25/xxx (1+1)			
		150	275
Single Unit Weight	pounds	.242	.330
	grams	110	150
Single Unit DIN 43880 Dimension		2 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity		7 Units	
ProBloc BR 25/xxx (1+1)			
		150	275
Single Unit Weight	pounds	.253	.341
	grams	115	155
Single Unit DIN 43880 Dimension		2 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity		7 Units	

Compact Multi-pole SPD
ProBloc B(R) 50 (3+1)
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA} / 50 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 20 \text{ kA} / 50 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

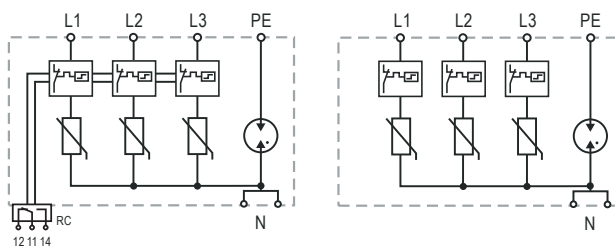
Technical Data

ProBloc B(R) 50/xxx (3+1)		275	320
Electrical			
Nominal AC Voltage (50/60 Hz)	U_o	230 V	230 V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	275 V	320 V
	(N-PE) U_c		255 V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 50 kA	
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 100 kA	
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}	12.5 kA / 50 kA	
Total Discharge Current (10/350 μs)	I_{total}	50 kA	
Specific Energy	(L-N)/(N-PE) W/R	39 kJ/ Ω / 625 kJ/ Ω	
Charge	(L-N)/(N-PE) Q	6.25 As / 25 As	
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.5 kV / < 1.5 kV	< 1.5 kV / < 1.5 kV
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}	
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns	
Back-Up Fuse (if mains > 250 A)		250 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA	
TOV Withstand 5s	(L-N) U_T	334 V	334 V
TOV Safe Fail 120min	(L-N) U_T	438 V	438 V
TOV Withstand 200ms	(N-PE) U_T	1200 V / 300 A	
Number of Ports		1	
Mechanical & Environmental			
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection	(L-N)/(N-PE)	Yes/No	
Fault Indication	(L-N)/(N-PE)	Red Flag/No	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	
Order Information			
Order Code		275	320
ProBloc B 50/xxx (3+1)		56.0554	56.0556
ProBloc BR 50/xxx (3+1) (with remote contacts)		56.0555	56.0557

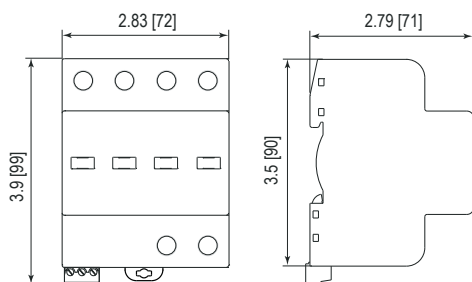
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging			
ProBloc B 50/xxx (3+1)		275	320
Single Unit Weight	pounds	1.311	1.311
	grams	595	595
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80mm]	
Minimum Order Quantity		3 Units	
ProBloc BR 50/xxx (3+1)		275	320
Single Unit Weight	pounds	1.322	1.322
	grams	600	600
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80mm]	
Minimum Order Quantity		3 Units	

Compact Single Pole SPD
ProBloc B(R) 25 (1+0)
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, L-N, N-PE, L-PEN
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 25 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

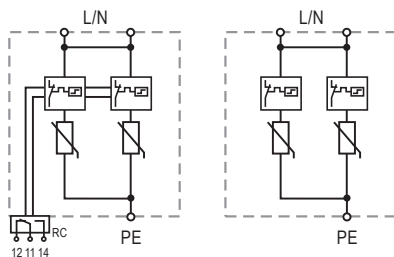
ProBloc B(R) 25/xxx (1+0)		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		25 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		100 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		25 kA		
Specific Energy	W/R		156 kJ/ Ω		
Charge	Q		12.5 As		
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5A; 125V/3A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			
Order Information					
Order Code		150	275	320	440
ProBloc B 25/xxx (1+0)		56.0562	56.0564	56.0566	56.0570
ProBloc BR 25/xxx (1+0) (with remote contacts)		56.0563	56.0565	56.0567	56.0571

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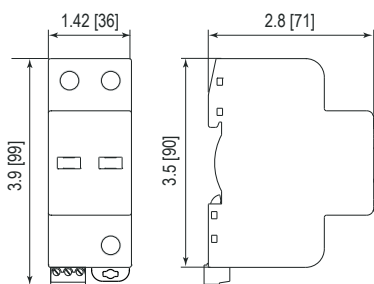
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging					
ProBloc B 25/xxx (1+0)		150	275	320	440V
Single Unit Weight	pounds	.540	.650	.650	.760
	grams	245	295	295	345
Single Unit DIN 43880 Dimension				2 TE	
Packaging Dimensions (H x W x L)				4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity				7 Units	
ProBloc BR 25/xxx (1+0)		150	275	320	440V
Single Unit Weight	pounds	.551	.661	.661	.771
	grams	250	300	300	350
Single Unit DIN 43880 Dimension				2 TE	
Packaging Dimensions (H x W x L)				4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity				7 Units	

Compact Multi-pole SPD
ProBloc B(R) 50 (2+0)
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 25 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

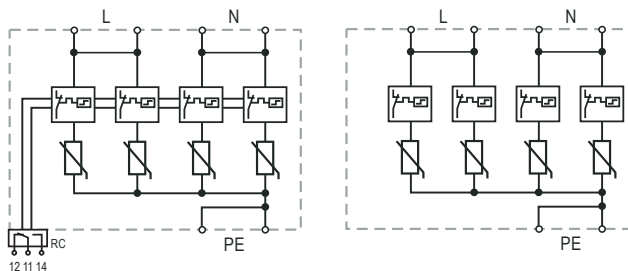
ProBloc B(R) 50/xxx (2+0)		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		25 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		100 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		25 kA		
Total Discharge Current (10/350 μs)	I_{total}		50 kA		
Specific Energy	W/R		156 kJ/ Ω		
Charge	Q		12.5 As		
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5A; 125V/3A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			
Order Information					
Order Code		150	275	320	440
ProBloc B 50/xxx (2+0)		56.0572	56.0574	56.0576	56.0580
ProBloc BR 50/xxx (2+0) (with remote contacts)		56.0573	56.0575	56.0577	56.0581

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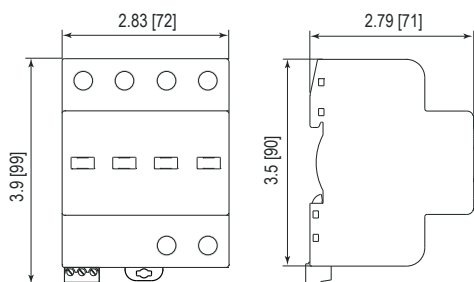
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

		150	275	320	440
ProBloc B 50/xxx (2+0)					
Single Unit Weight	pounds	1.014	1.234	1.234	1.499
	grams	460	560	560	680
Single Unit DIN 43880 Dimension		4 TE			
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]			
Minimum Order Quantity		3 Units			
ProBloc BR 50/xxx (2+0)					
Single Unit Weight	pounds	1.036	1.256	1.256	1.521
	grams	470	570	570	690
Single Unit DIN 43880 Dimension		4 TE			
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]			
Minimum Order Quantity		3 Units			

Compact Multi-pole SPD
ProBloc B(R) 75 (3+0)
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L - PEN
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 25 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

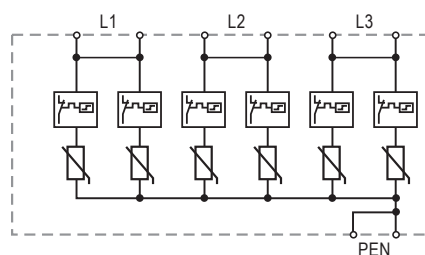
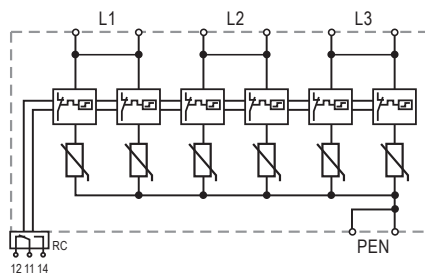
ProBloc B(R) 75/xxx (3+0)		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		25 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		100 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		25 kA		
Total Discharge Current (10/350 μs)	I_{total}		75 kA		
Specific Energy	W/R		156 kJ/ Ω		
Charge	Q		12.5 As		
Voltage Protection Level	U_p	< 1.0kV	< 1.5kV	< 1.5kV	< 1.9kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5A; 125V/3A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			
Order Information					
Order Code		150	275	320	440
ProBloc B 75/xxx (3+0)		56.0582	56.0584	56.0586	56.0590
ProBloc BR 75/xxx (3+0) (with remote contacts)		56.0583	56.0585	56.0587	56.0591

*OVE Certified

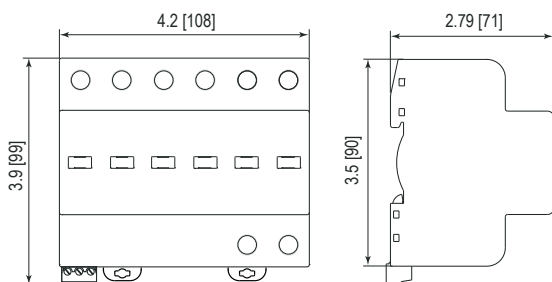
Internal Configuration

Legend

- L Line
- N Neutral
- PEN Combined Protective Earth and Neutral
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging					
ProBloc B 75/xxx (3+0)		150	275	320	440
Single Unit Weight	pounds	1.521	1.851	1.851	2.215
	grams	690	840 g	840	1005
Single Unit DIN 43880 Dimension					6 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 4.4" [109 x 77 x 114 mm]			
Minimum Order Quantity					3 Units
<hr/>					
ProBloc BR 75/xxx (3+0)		150	275	320	440
Single Unit Weight	pounds	1.554	1.884	1.884	2.248
	grams	705	855	855	1020
Single Unit DIN 43880 Dimension					6 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 4.4" [109 x 77 x 114 mm]			
Minimum Order Quantity					3 Units

Compact Multi-pole SPD
ProBloc B(R) 100 (4+0)
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 25 \text{ kA}$ (10/350 μs)
 $I_n = 25 \text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

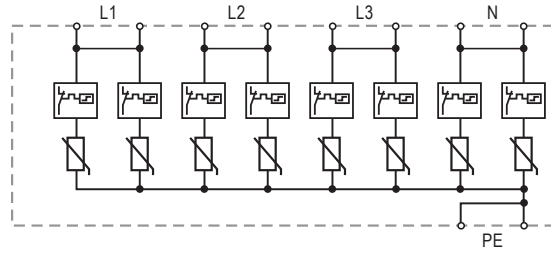
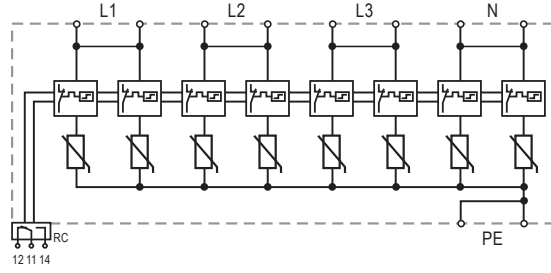
ProBloc B(R) 100/xxx (4+0)		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n		25 kA		
Maximum Discharge Current (8/20 μs)	I_{max}		100 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}		25 kA		
Total Discharge Current (10/350 μs)	I_{total}		100 kA		
Specific Energy	W/R		156 kJ/ Ω		
Charge	Q		12.5 As		
Voltage Protection Level	U_p	< 1.0kV	< 1.5kV	< 1.5kV	< 1.9kV
Response Time	t_A		< 25 ns		
Back-Up Fuse (if mains > 250 A)			250 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA		
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
Number of Ports			1		
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Fault Indication		Red Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/0.5 A; 125V/3 A			
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			
Order Information					
Order Code		150	275	320	440
ProBloc B 100/xxx (4+0)		56.0592	56.0594	56.0596	56.0600
ProBloc BR 100/xxx (4+0) (with remote contacts)		56.0593	56.0595	56.0597	56.0601

*OVE Certified

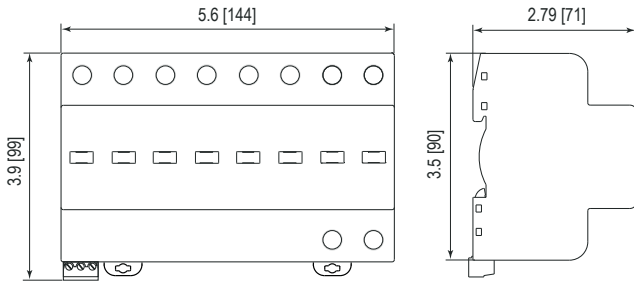
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

		150	275	320	440
ProBloc B 100/xxx (4+0)					
Single Unit Weight	pounds	2.028	2.469	2.469	2.965
	grams	920	1120	1120	1345
Single Unit DIN 43880 Dimension		8 TE			
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]			
Minimum Order Quantity		2 Units			
ProBloc BR 100/xxx (4+0)					
Single Unit Weight	pounds	2.182	2.623	2.623	2.998
	grams	990	1190	1190	1360
Single Unit DIN 43880 Dimension		8 TE			
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]			
Minimum Order Quantity		2 Units			

Compact Multi-pole SPD ProBloc B(R) 50 (1+1) Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 25\text{ kA} / 50\text{ kA} (10/350\mu\text{s})$
 $I_n = 25\text{ kA} / 50\text{ kA} (8/20\mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

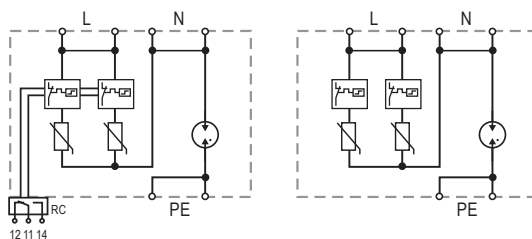
ProBloc B(R) 50/xxx (1+1)		150	275*	320*
Electrical				
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	150V	275V	320V
	(N-PE) U_c		255V	
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n		25 kA / 50 kA	
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}		100 kA / 100 kA	
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}		25 kA / 50 kA	
Total Discharge Current (10/350 μs)	I_{total}		50 kA	
Specific Energy	(L-N)/(N-PE) W/R		156 kJ/ Ω / 625 kJ/ Ω	
Charge	(L-N)/(N-PE) Q		12.5 As / 25 As	
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.0 kV / < 1.5 kV	< 1.5 kV / < 1.5 kV	< 1.5 kV / < 1.5 kV
Follow Current Interrupt Rating	(N-PE) I_{fi}		100 A _{RMS}	
Response Time	(L-N)/(N-PE) t_A		< 25 ns / < 100 ns	
Back-Up Fuse (if mains > 250 A)			250 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA	
TOV Withstand 5s	(L-N) U_T	174V	334V	334V
TOV Safe Fail 120min	(L-N) U_T	229V	438V	438V
TOV Withstand 200ms	(N-PE) U_T		1200V / 300 A	
Number of Ports			1	
Mechanical & Environmental				
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]		
Permissible Humidity	RH	5%...95%		
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]		
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)		
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)		
Mounting		35 mm DIN Rail, EN 60715		
Degree of Protection		IP 20 (built-in)		
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0		
Thermal Protection	(L-N)/(N-PE)	Yes/No		
Fault Indication	(L-N)/(N-PE)	Red Flag/No		
Remote Contacts (RC)		Optional		
RC Switching Capacity		AC: 250V/0.5A; 125V/3A		
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)		
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]		
Order Information				
Order Code		150	275	320
ProBloc B 50/xxx (1+1)		56.0602	56.0604	56.0606
ProBloc BR 50/xxx (1+1) (with remote contacts)		56.0603	56.0605	56.0607

*OVE Certified

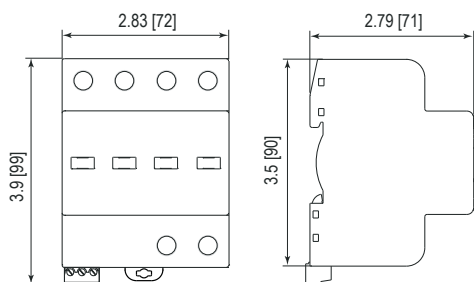
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

Dimensions & Packaging			
ProBloc B 50/xxx (1+1)			
Single Unit Weight	pounds	150	275
	grams	445	485
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80mm]	
Minimum Order Quantity		3 Units	
ProBloc BR 50/xxx (1+1)			
Single Unit Weight	pounds	150	275
	grams	450	490
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80mm]	
Minimum Order Quantity		3 Units	

Compact Multi-pole SPD
ProBloc B(R) 100 (3+1)
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L - N, N - PE
 Surge Ratings: $I_{imp} = 25 \text{ kA} / 100 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 25 \text{ kA} / 100 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

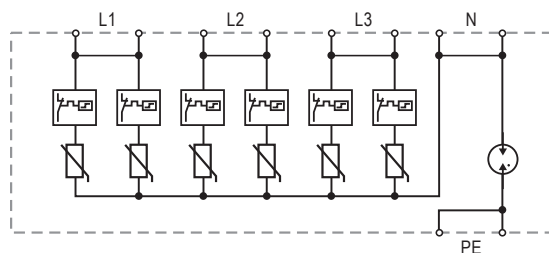
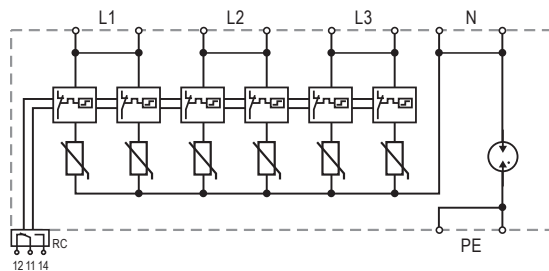
Technical Data

ProBloc B(R) 100/xxx (3+1)		275	320
Electrical			
Nominal AC Voltage (50/60 Hz)	U_o	230 V	230 V
Maximum Continuous Operating Voltage (AC)	(L - N) U_c	275 V	320 V
	(N - PE) U_c		255 V
Nominal Discharge Current (8/20 μs)	(L - N)/(N - PE) I_n		25 kA / 100 kA
Maximum Discharge Current (8/20 μs)	(L - N)/(N - PE) I_{max}		100 kA / 100 kA
Impulse Discharge Current (10/350 μs)	(L - N)/(N - PE) I_{imp}		25 kA / 100 kA
Total Discharge Current (10/350 μs)	I_{total}		100 kA
Specific Energy	(L - N)/(N - PE) W/R		156 kJ/ Ω / 2.5 MJ/ Ω
Charge	(L - N)/(N - PE) Q		12.5 As / 50 As
Voltage Protection Level	(L - N)/(N - PE) U_p	< 1.5 kV / < 1.5 kV	< 1.5 kV / < 1.5 kV
Follow Current Interrupt Rating	(N - PE) I_{fi}		100 A _{RMS}
Response Time	(L - N)/(N - PE) t_A		< 25 ns / < 100 ns
Back-Up Fuse (if mains > 250 A)	(L - N)		250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 5s	(L - N) U_T	334 V	334 V
TOV Safe Fail 120min	(L - N) U_T	438 V	438 V
TOV Withstand 200ms	(N - PE) U_T		1200 V / 300 A
Number of Ports			1
Mechanical & Environmental			
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque (max)	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection	(L - N)/(N - PE)	Yes/No	
Fault Indication	(L - N)/(N - PE)	Red Flag/No	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5 A; 125V/3 A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	
Order Information			
Order Code		275	320
ProBloc B 100/xxx (3+1)		56.0614	56.0616
ProBloc BR 100/xxx (3+1) (with remote contacts)		56.0615	56.0617

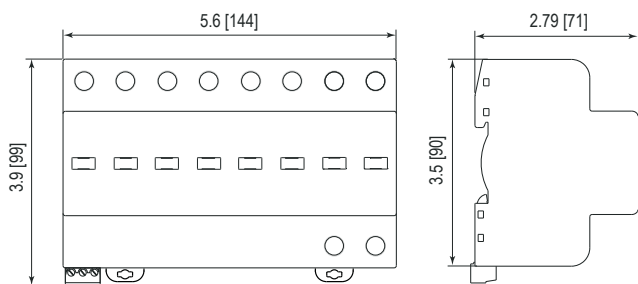
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

Dimensions & Packaging			
		275	320
ProBloc B 100/xxx (3+1)			
Single Unit Weight	pounds	2.50	2.50
	grams	1135	1135
Single Unit DIN 43880 Dimension		8 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]	
Minimum Order Quantity		2 Units	
<hr/>			
		275	320
ProBloc BR 100/xxx (3+1)			
Single Unit Weight	pounds	2.53	2.53
	grams	1150	1150
Single Unit DIN 43880 Dimension		8 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]	
Minimum Order Quantity		2 Units	

Compact Single Pole SPD
ProTube B 50
 Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: N-PE
 Surge Ratings: $I_{imp} = 50 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 50 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTube B 50/xxx

255

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	U_c	255V
Nominal Discharge Current (8/20 μs)	I_n	50 kA
Maximum Discharge Current (8/20 μs)	I_{max}	100 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	50 kA
Specific Energy	W/R	625 kJ/ Ω
Charge	Q	25 As
Voltage Protection Level	U_p	< 1.5 kV
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V/300A
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0

Order Information

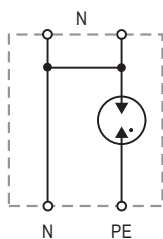
Order Code	255
ProTube B 50/xxx	56.0510

ProTube B 50

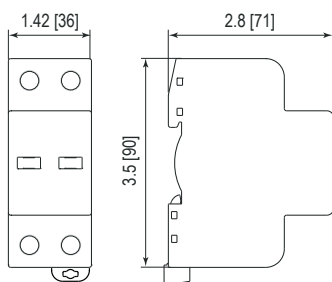
Internal Configuration

Legend

N Neutral
PE Protective Earth



Dimensions & Packaging



Dimensions & Packaging

ProTube B 50/xxx		255
Single Unit Weight	pounds	.396
	grams	180
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42mm]
Minimum Order Quantity		7 Units

Compact Single Pole SPD
ProTube B 100
 Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: N-PE
 Surge Ratings: $I_{imp} = 100\text{ kA}$ (10/350 μs)
 $I_n = 100\text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTube B 100/xxx

255

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	U_c	255V
Nominal Discharge Current (8/20 μs)	I_n	100kA
Maximum Discharge Current (8/20 μs)	I_{max}	100kA
Impulse Discharge Current (10/350 μs)	I_{imp}	100kA
Specific Energy	W/R	2.5MJ/ Ω
Charge	Q	50As
Voltage Protection Level	U_p	< 1.5kV
Follow Current Interrupt Rating	I_{fi}	100A _{RMS}
Response Time	t_A	< 100ns
TOV Withstand 200ms	U_T	1200V/300A
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0

Order Information

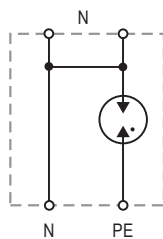
Order Code		255
ProTube B 100/xxx		56.0511

ProTube B 100

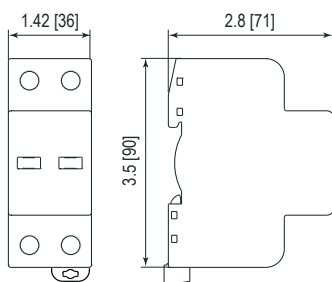
Internal Configuration

Legend

- N Neutral
- PE Protective Earth



Dimensions & Packaging



Dimensions & Packaging

ProTube B 100/xxx		255
Single Unit Weight	pounds	.529
	grams	240
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42mm]
Minimum Order Quantity		7 Units

Compact Single Pole SPD
SafeBloc B(R) 12.5 (1+0) TCG
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE, L-PEN, L-N
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

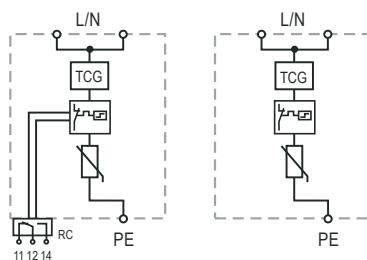
SafeBloc B(R) 12.5/xxx (1+0) TCG	150	275*	
Electrical			
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V
Nominal Discharge Current (8/20 μs)	I_n		20 kA
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA
Specific Energy	W/R		39 kJ/ Ω
Charge	Q		6.25 As
Voltage Protection Level	U_p	< 1.2 kV	< 1.5 kV
Response Time	t_A		< 25 ns
Back-Up Fuse (if mains > 250 A)			250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 120min	U_T	229V	438V
Number of Ports			1
Mechanical & Environmental			
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	
Order Information			
Order Code		150	275
SafeBloc B 12.5/xxx (1+0) TCG		54.0500	54.0502
SafeBloc BR 12.5/xxx (1+0) TCG (with remote contacts)		54.0501	54.0503

*OVE Certified

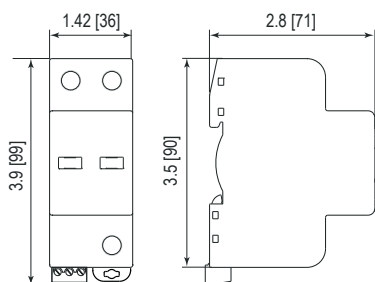
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging			
SafeBloc B 12.5/xxx (1+0) TCG		150	275
Single Unit Weight	pounds [grams]	.385 [175]	.451 [205]
Single Unit DIN 43880 Dimension		2 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity		7 Units	
SafeBloc BR 12.5/xxx (1+0) TCG		150	275
Single Unit Weight	pounds [grams]	.396 [180]	.462 [210]
Single Unit DIN 43880 Dimension		2 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity		7 Units	

Compact Multi-pole SPD
SafeBloc B(R) 25 (2+0) TCG
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 25/xxx (2+0) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V
Nominal Discharge Current (8/20 μs)	I_n		20 kA
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA
Total Discharge Current (10/350 μs)	I_{total}		25 kA
Specific Energy	W/R		39 kJ/ Ω
Charge	Q		6.25 As
Voltage Protection Level	U_p	< 1.2 kV	< 1.5 kV
Response Time	t_A		< 25 ns
Back-Up Fuse (if mains > 250 A)			250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 120min	U_T	229V	438V
Number of Ports			1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

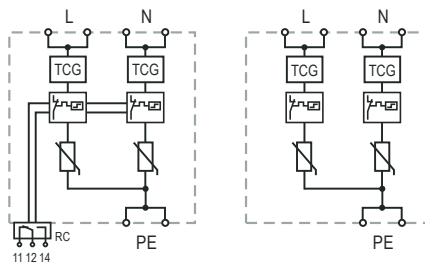
Order Code		150	275
SafeBloc B 25/xxx (2+0) TCG		54.0507	54.0509
SafeBloc BR 25/xxx (2+0) TCG (with remote contacts)		54.0508	54.0510

*OVE Certified

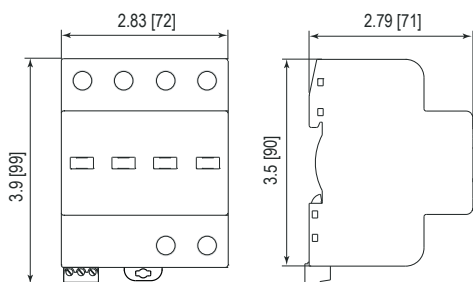
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging		
SafeBloc B 25/xxx (2+0) TCG	150	275
Single Unit Weight pounds [grams]	.705 [320]	.925 [420]
Single Unit DIN 43880 Dimension	4 TE	
Packaging Dimensions (H x W x L)	4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity	3 Units	
SafeBloc BR 25/xxx (2+0) TCG	150	275
Single Unit Weight pounds [grams]	.727 [330]	.947 [430]
Single Unit DIN 43880 Dimension	4 TE	
Packaging Dimensions (H x W x L)	4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity	3 Units	

Compact Multi-pole SPD
SafeBloc B(R) 37.5 (3+0) TCG
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L - PEN
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 37.5/xxx (3+0) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V
Nominal Discharge Current (8/20 μs)	I_n		20 kA
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA
Total Discharge Current (10/350 μs)	I_{total}		37.5 kA
Specific Energy	W/R		39 kJ/ Ω
Charge	Q		6.25 As
Voltage Protection Level	U_p	< 1.2 kV	< 1.5 kV
Response Time	t_A		< 25 ns
Back-Up Fuse (if mains > 250A)			250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 120min	U_T	229V	438V
Number of Ports			1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

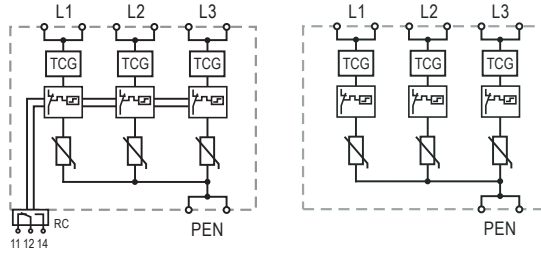
Order Code	150	275
SafeBloc B 37.5/xxx (3+0) TCG	54.0513	54.0515
SafeBloc BR 37.5/xxx (3+0) TCG (with remote contacts)	54.0514	54.0516

*OVE Certified

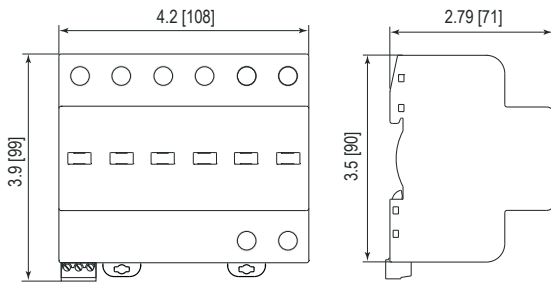
Internal Configuration

Legend

- L Line
- PEN Combined Protective Earth and Neutral
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging

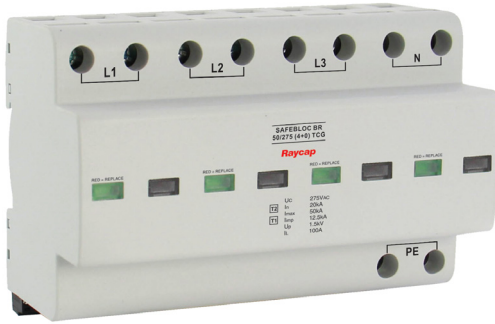


Dimensions & Packaging

		150	275
SafeBloc B 37.5/xxx (3+0) TCG			
Single Unit Weight	pounds [grams]	.947 [430]	1.168 [530]
Single Unit DIN 43880 Dimension		6 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 4.4" [109 x 77 x 114 mm]	
Minimum Order Quantity		2 Units	
SafeBloc BR 37.5/xxx (3+0) TCG			
Single Unit Weight	pounds [grams]	.970 [440]	1.190 [540 g]
Single Unit DIN 43880 Dimension		6 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 4.4" [109 x 77 x 114 mm]	
Minimum Order Quantity		2 Units	

Compact Multi-pole SPD
SafeBloc B(R) 50 (4+0) TCG
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 50/xxx (4+0) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V
Nominal Discharge Current (8/20 μs)	I_n		20 kA
Maximum Discharge Current (8/20 μs)	I_{max}		50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}		12.5 kA
Total Discharge Current (10/350 μs)	I_{total}		50 kA
Specific Energy	W/R		39 kJ/ Ω
Charge	Q		6.25 As
Voltage Protection Level	U_p	< 1.2 kV	< 1.5 kV
Response Time	t_A		< 25 ns
Back-Up Fuse (if mains > 250 A)			250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 120min	U_T	229V	438V
Number of Ports			1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

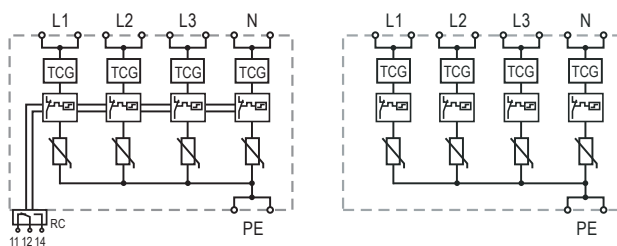
Order Code		150	275
SafeBloc B 50/xxx (4+0) TCG		54.0519	54.0521
SafeBloc BR 50/xxx (4+0) TCG (with remote contacts)		54.0520	54.0522

*OVE Certified

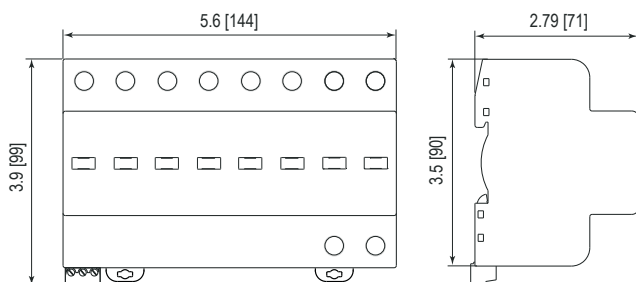
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging			
SafeBloc B 50/xxx (4+0) TCG		150	275
Single Unit Weight	pounds [grams]	1.763 [800]	2.204 [1000]
Single Unit DIN 43880 Dimension		8 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]	
Minimum Order Quantity		2 Units	
SafeBloc BR 50/xxx (4+0) TCG		150	275
Single Unit Weight	pounds [grams]	1.796 [815]	2.237 [1015]
Single Unit DIN 43880 Dimension		8 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]	
Minimum Order Quantity		2 Units	

Compact Multi-pole SPD
SafeBloc B(R) 25 (1+1) TCG
 Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA} / 50 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 20 \text{ kA} / 50 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 25/xxx (1+1) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	150V	275V
	(N-PE) U_c	255V	
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 50 kA	
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 100 kA	
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}	12.5 kA / 50 kA	
Total Discharge Current (10/350 μs)	I_{total}	25 kA	
Specific Energy	(L-N)/(N-PE) W/R	39 kJ/ Ω / 625 kJ/ Ω	
Charge	(L-N)/(N-PE) Q	6.25 As / 25 As	
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.2 kV / < 1.5 kV	< 1.5 kV / < 1.5 kV
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}	
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns	
Thermal Protection	(L-N)/(N-PE)	Yes/No	
Back-Up Fuse (if mains > 250 A)		250 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA	
TOV Withstand 120min	(L-N) U_T	229V	438V
TOV Withstand 200ms	(N-PE) U_T	1200V / 300A	
Number of Ports		1	

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Fault Indication	(L-N)/(N-PE)	Red Flag/No	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

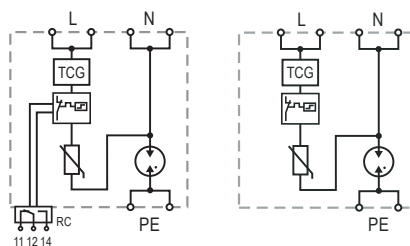
Order Code		150	275
SafeBloc B 25/xxx (1+1) TCG		54.0525	54.0527
SafeBloc B(R) 25/xxx (1+1) TCG (with remote contacts)		54.0526	54.0528

*OVE Certified

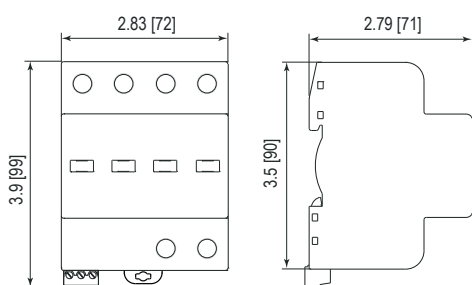
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging

		150	275
SafeBloc B 25/xxx (1+1) TCG			
Single Unit Weight	pounds [grams]	.617 [280]	.694 [315]
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity		3 Units	
SafeBloc BR 25/xxx (1+1) TCG			
Single Unit Weight	pounds [grams]	.628 [285]	.705 [320]
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity		3 Units	

Compact Multi-pole SPD SafeBloc B(R) 50 (3+1) TCG

Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA} / 50 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 20 \text{ kA} / 50 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 50/xxx (3+1) TCG

275

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	275V
	(N-PE) U_c	255V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 50 kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 100 kA
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}	12.5 kA / 50 kA
Total Discharge Current (10/350 μs)	I_{total}	50 kA
Specific Energy	(L-N)/(N-PE) W/R	39 kJ/ Ω / 625 kJ/ Ω
Charge	(L-N)/(N-PE) Q	6.25 As / 25 As
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.5 kV / < 1.5 kV
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns
Back-Up Fuse (if mains > 250 A)		250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 120min	(L-N) U_T	438V
TOV Withstand 200ms	(N-PE) U_T	1200V / 300A
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection	(L-N)/(N-PE)	Yes/No
Fault Indication	(L-N)/(N-PE)	Red Flag/NO
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; 125V/3A
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]

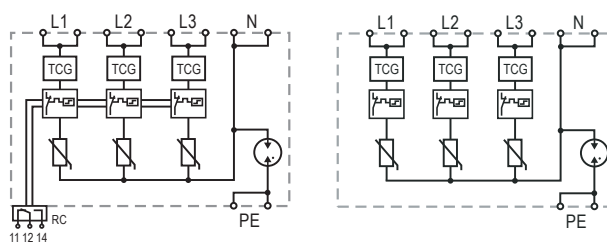
Order Information

Order Code	275
SafeBloc B 50/xxx (3+1) TCG	54.0533
SafeBloc B(R) 50/xxx (3+1) TCG (with remote contacts)	54.0534

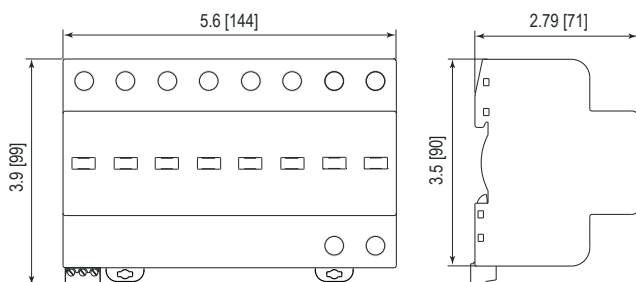
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging		
SafeBloc B 50/xxx (3+1) TCG		275
Single Unit Weight	pounds [grams]	1.984 [900]
Single Unit DIN 43880 Dimension		8 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]
Minimum Order Quantity		2 Units
SafeBloc BR 50/xxx (3+1) TCG		275
Single Unit Weight	pounds [grams]	2.006 [910]
Single Unit DIN 43880 Dimension		8 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]
Minimum Order Quantity		2 Units

Compact Single Pole SPD
SafeBloc B(R) 25 (1+0) TCG
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE, L-PEN, L-N
 Surge Ratings: $I_{imp} = 25 \text{ kA}$ (10/350 μs)
 $I_n = 25 \text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

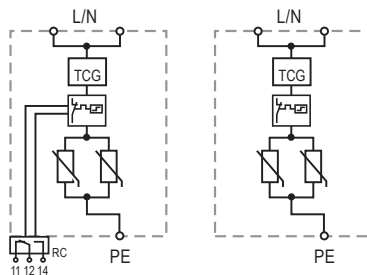
SafeBloc B(R) 25/xxx (1+0) TCG	150	275*
Electrical		
Nominal AC Voltage (50/60 Hz)	U_o	120V / 230V
Maximum Continuous Operating Voltage (AC)	U_c	150V / 275V
Nominal Discharge Current (8/20 μs)	I_n	25 kA
Maximum Discharge Current (8/20 μs)	I_{max}	100 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	25 kA
Specific Energy	W/R	156 kJ/ Ω
Charge	Q	12.5 As
Voltage Protection Level	U_p	< 1.2 kV / < 1.5 kV
Response Time	t_A	< 25 ns
Back-Up Fuse (if mains > 250 A)		250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 120min	U_T	229V / 438V
Number of Ports		1
Mechanical & Environmental		
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Fault Indication		Red Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; 125V/3A
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]
Order Information		
Order Code	150	275
SafeBloc B 25/xxx (1+0) TCG	54.0537	54.0539
SafeBloc BR 25/xxx (1+0) TCG (with remote contacts)	54.0538	54.0540

*OVE Certified

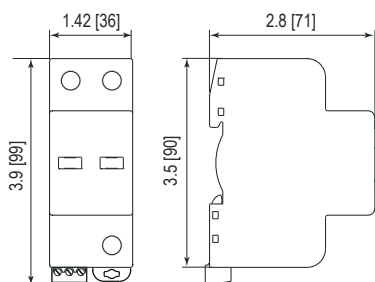
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging

		150	275
SafeBloc B 25/xxx (1+0) TCG			
Single Unit Weight	pounds [grams]	.606 [275]	.716 [325]
Single Unit DIN 43880 Dimension		2 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity		7 Units	
SafeBloc BR 25/xxx (1+0) TCG			
Single Unit Weight	pounds [grams]	.617 [280]	.727 [330]
Single Unit DIN 43880 Dimension		2 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]	
Minimum Order Quantity		7 Units	

Compact Multi-pole SPD
SafeBloc B(R) 50 (2+0) TCG
 Class I • Class II • Type 1 • Type 2

25kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 25 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 50/xxx (2+0) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V
Nominal Discharge Current (8/20 μs)	I_n	25 kA	
Maximum Discharge Current (8/20 μs)	I_{max}	100 kA	
Impulse Discharge Current (10/350 μs)	I_{imp}	25 kA	
Total Discharge Current (10/350 μs)	I_{total}	50 kA	
Specific Energy	W/R	156 kJ/ Ω	
Charge	Q	12.5 As	
Voltage Protection Level	U_p	< 1.2 kV	< 1.5 kV
Response Time	t_A	< 25 ns	
Back-Up Fuse (if mains > 250 A)		250 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA	
TOV Withstand 120min	U_T	229V	438V
Number of Ports		1	

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

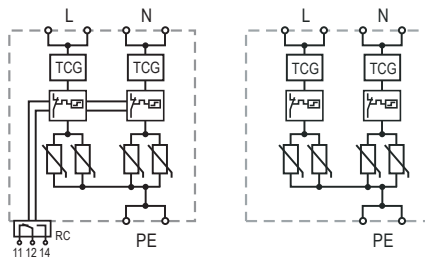
Order Code		150	275
SafeBloc B 50/xxx (2+0) TCG		54.0544	54.0546
SafeBloc BR 50/xxx (2+0) TCG (with remote contacts)		54.0545	54.0547

*OVE Certified

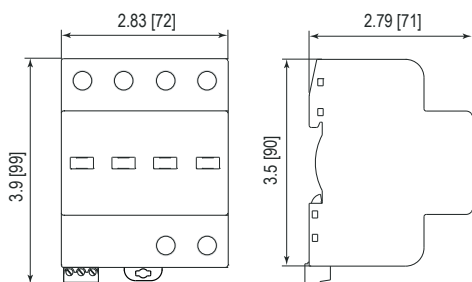
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging

SafeBloc B 50/xxx (2+0) TCG			
	150	275	
Single Unit Weight	pounds [grams]	1.146 [520]	1.366 [620]
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80mm]	
Minimum Order Quantity		3 Units	
SafeBloc BR 50/xxx (2+0) TCG			
	150	275	
Single Unit Weight	pounds [grams]	1.168 [530]	1.388 [630]
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80mm]	
Minimum Order Quantity		3 Units	

Compact Multi-pole SPD
SafeBloc B(R) 75 (3+0) TCG
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L - PEN
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 25 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 75/xxx (3+0) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V
Nominal Discharge Current (8/20 μs)	I_n		25 kA
Maximum Discharge Current (8/20 μs)	I_{max}		100 kA
Impulse Discharge Current (10/350 μs)	I_{imp}		25 kA
Total Discharge Current (10/350 μs)	I_{total}		75 kA
Specific Energy	W/R		156 kJ/ Ω
Charge	Q		12.5 As
Voltage Protection Level	U_p	< 1.2 kV	< 1.5 kV
Response Time	t_A		< 25 ns
Back-Up Fuse (if mains > 250 A)			250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 120min	U_T	229V	438V
Number of Ports			1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

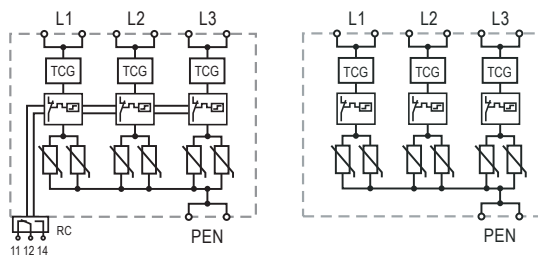
Order Code		150	275
SafeBloc B 75/xxx (3+0) TCG		54.0550	54.0552
SafeBloc BR 75/xxx (3+0) TCG (with remote contacts)		54.0551	54.0553

*OVE Certified

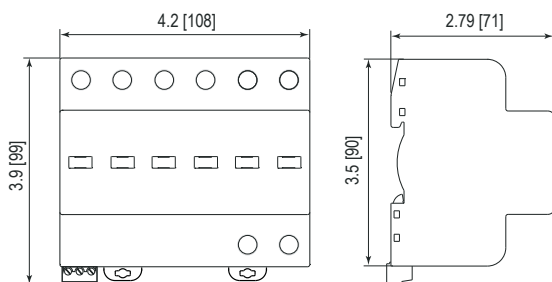
Internal Configuration

Legend

- L Line
- PEN Combined Protective Earth and Neutral
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



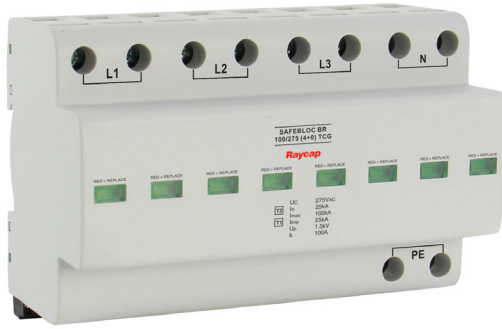
Dimensions & Packaging

		150	275
SafeBloc B 75/xxx (3+0) TCG			
Single Unit Weight	pounds [grams]	1.719 [780]	2.050 [930]
Single Unit DIN 43880 Dimension		6 TE	
Packaging Dimensions (H×W×L)		4.2 × 3 × 4.4" [109 × 77 × 114mm]	
Minimum Order Quantity		2 Units	

		150	275
SafeBloc BR 75/xxx (3+0) TCG			
Single Unit Weight	pounds [grams]	1.741 [790]	2.072 [940]
Single Unit DIN 43880 Dimension		6 TE	
Packaging Dimensions (H×W×L)		4.2 × 3 × 4.4" [109 × 77 × 114mm]	
Minimum Order Quantity		2 Units	

Compact Multi-pole SPD
SafeBloc B(R) 100 (4+0) TCG
 Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 25 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 25 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 100/xxx (4+0) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V
Nominal Discharge Current (8/20 μs)	I_n		25 kA
Maximum Discharge Current (8/20 μs)	I_{max}		100 kA
Impulse Discharge Current (10/350 μs)	I_{imp}		25 kA
Total Discharge Current (10/350 μs)	I_{total}		100 kA
Specific Energy	W/R		156 kJ/ Ω
Charge	Q		12.5 As
Voltage Protection Level	U_p	< 1.2 kV	< 1.5 kV
Response Time	t_A		< 25 ns
Back-Up Fuse (if mains > 250 A)			250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 120min	U_T	229V	438V
Number of Ports			1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

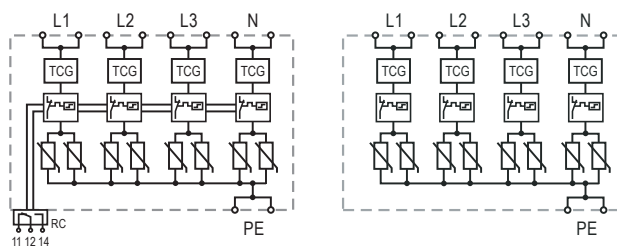
Order Code		150	275
SafeBloc B 100/xxx (4+0) TCG		54.0556	54.0558
SafeBloc B(R) 100/xxx (4+0) TCG (with remote contacts)		54.0557	54.0559

*OVE Certified

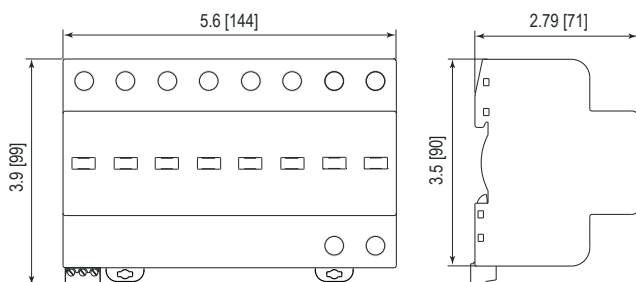
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging

		150	275
SafeBloc B 100/xxx (4+0) TCG			
Single Unit Weight	pounds [grams]	2.292 [1040]	2.733 [1240]
Single Unit DIN 43880 Dimension		8 TE	
Packaging Dimensions (H×W×L)		4.2 × 3 × 5.8" [109 × 77 × 148 mm]	
Minimum Order Quantity		2 Units	

		150	275
SafeBloc BR 100/xxx (4+0) TCG			
Single Unit Weight	pounds [grams]	2.325 [1055]	2.766 [1255]
Single Unit DIN 43880 Dimension		8 TE	
Packaging Dimensions (H×W×L)		4.2 × 3 × 5.8" [109 × 77 × 148 mm]	
Minimum Order Quantity		2 Units	

Compact Multi-pole SPD
SafeBloc B(R) 50 (1+1) TCG
 Class I • Class II • Type 1 • Type 2

25kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 25\text{ kA} / 50\text{ kA} (10/350\mu\text{s})$
 $I_n = 25\text{ kA} / 50\text{ kA} (8/20\mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 50/xxx (1+1) TCG

150

275*

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	120V	230V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	150V	275V
	(N-PE) U_c		255V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n		25 kA / 50 kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}		100 kA / 100 kA
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}		25 kA / 50 kA
Total Discharge Current (10/350 μs)	I_{total}		50 kA
Specific Energy	(L-N)/(N-PE) W/R		156 kJ/ Ω / 625 kJ/ Ω
Charge	(L-N)/(N-PE) Q		12.5 As / 25 As
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.2 kV / 1.5 kV	< 1.5 kV / 1.5 kV
Follow Current Interrupt Rating	(N-PE) I_{fi}		100 A _{RMS}
Response Time	(L-N)/(N-PE) t_A		< 25 ns / < 100 ns
Back-Up Fuse (if mains > 250 A)			250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA
TOV Withstand 120min	(L-N) U_T	229V	438V
TOV Withstand 200ms	(N-PE) U_T		1200V / 300A
Number of Ports			1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection	(L-N)/(N-PE)	Yes/No	
Fault Indication	(L-N)/(N-PE)	Red Flag/No	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]	

Order Information

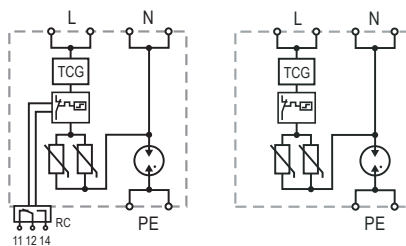
Order Code		150	275
SafeBloc B 50/xxx (1+1) TCG		54.0562	54.0564
SafeBloc BR 50/xxx (1+1) TCG (with remote contacts)		54.0563	54.0565

*OVE Certified

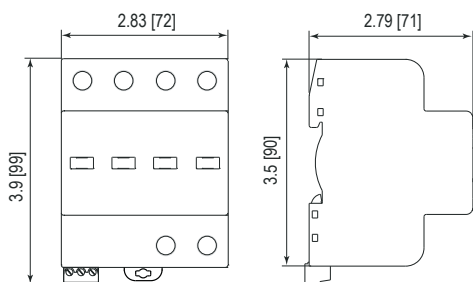
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging

		150	275
SafeBloc B 50/xxx (1+1) TCG			
Single Unit Weight	pounds [grams]	1.047 [475]	1.135 [515]
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity		3 Units	
SafeBloc BR 50/xxx (1+1) TCG			
Single Unit Weight	pounds [grams]	1.069 [485]	1.157 [525]
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity		3 Units	

Compact Multi-pole SPD SafeBloc B(R) 100 (3+1) TCG

Class I • Class II • Type 1 • Type 2

25 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_{imp} = 25 \text{ kA}/100 \text{ kA}$ (10/350 μs)
 $I_n = 25 \text{ kA}/100 \text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 100/xxx (3+1) TCG

275

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	275V
	(N-PE) U_c	255V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	25 kA/100 kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	100 kA/100 kA
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}	25 kA/100 kA
Total Discharge Current (10/350 μs)	I_{total}	100 kA
Specific Energy	(L-N)/(N-PE) W/R	156 kJ/ Ω /2.5 MJ/ Ω
Charge	(L-N)/(N-PE) Q	12.5 As/50 As
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.5 kV / < 1.5 kV
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns
Back-Up Fuse (if mains > 250 A)		250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 120min	(L-N) U_T	438V
TOV Withstand 200ms	(N-PE) U_T	1200V/300A
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)
		35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection	(L-N)/(N-PE)	Yes/No
Fault Indication	(L-N)/(N-PE)	Red Flag/No
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; 125V/3A
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]

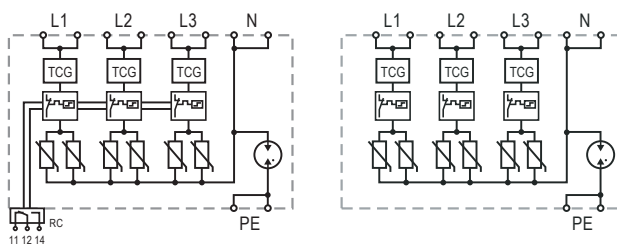
Order Information

Order Code	275
SafeBloc B 100/xxx (3+1) TCG	54.0570
SafeBloc BR 100/xxx (3+1) TCG (with remote contacts)	54.0571

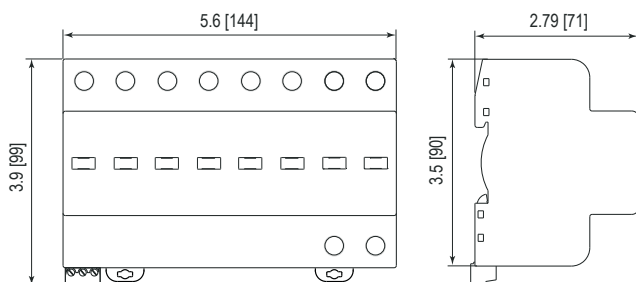
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging

SafeBloc B 100/xxx (3+1) TCG		275
Single Unit Weight	pounds [grams]	2.502 [1135]
Single Unit DIN 43880 Dimension		8 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]
Minimum Order Quantity		2 Units
SafeBloc B(R) 100/xxx (3+1) TCG		275
Single Unit Weight	pounds [grams]	2.535 [1150]
Single Unit DIN 43880 Dimension		8 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 5.8" [109 x 77 x 148 mm]
Minimum Order Quantity		2 Units

Compact Single Pole SPD
SafeTube B 50
 Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: N-PE
 Surge Ratings: $I_{imp} = 50 \text{ kA (10/350 } \mu\text{s)}$
 $I_n = 50 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy GDT
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeTube B 50/xxx

255 V

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	U_c	255V
Nominal Discharge Current (8/20 μs)	I_n	50 kA
Maximum Discharge Current (8/20 μs)	I_{max}	100 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	50 kA
Specific Energy	W/R	625 kJ/ Ω
Charge	Q	25 As
Voltage Protection Level	U_p	< 1.5kV
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V/300A
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0

Order Information

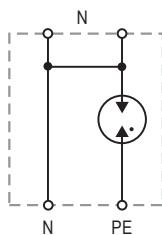
Order Code	255
SafeTube B 50/xxx	54.0506

SafeTube B 50

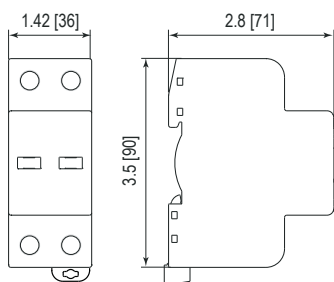
Internal Configuration

Legend

- N Neutral
- PE Protective Earth



Dimensions & Packaging



Dimensions & Packaging

SafeTube B 50/xxx		255
Single Unit Weight	pounds [grams]	.396 [180]
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]
Minimum Order Quantity		7 Units

Compact Single Pole SPD
SafeTube B 100
 Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: N-PE
 Surge Ratings: $I_{imp} = 100\text{ kA}$ (10/350 μs)
 $I_n = 100\text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy GDT
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeTube B 100/xxx

255

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	U_c	255V
Nominal Discharge Current (8/20 μs)	I_n	100 kA
Maximum Discharge Current (8/20 μs)	I_{max}	100 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	100 kA
Specific Energy	W/R	2.5 MJ/ Ω
Charge	Q	50 As
Voltage Protection Level	U_p	< 1.5 kV
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V/300A
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0

Order Information

Order Code		255
SafeTube B 100/xxx		54.0543

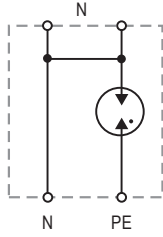
SafeTube B 100

Internal Configuration

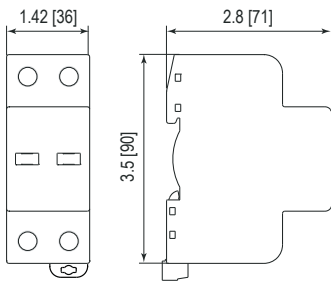
Legend

N Neutral

PE Protective Earth



Dimensions & Packaging



Dimensions & Packaging

SafeTube B 100/xxx		255
Single Unit Weight	pounds [grams]	.529 [240]
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]
Minimum Order Quantity		7 Units

Compact Single Pole SPD for Wind Turbine Systems

SafeBloc B(R) 12.5 (1+0) WT TCG

Class I • Class II • Type 1 • Type 2

12.5 kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE, L-PEN, L-N
 Surge Ratings: $I_{imp} = 12.5\text{ kA}$ (10/350 μs)
 $I_n = 12.5\text{ kA}$ (8/20 μs)
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 12.5/xxx (1+0) WT TCG

750

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	600V
Maximum Continuous Operating Voltage (AC)	U_c	750V
Nominal Discharge Current (8/20 μs)	I_n	12.5 kA
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	12.5 kA
Specific Energy	W/R	39 kJ/ Ω
Charge	Q	6.25 As
Voltage Protection Level	U_p	< 2.6 kV
Response Time	t_A	< 25 ns
Back-Up Fuse (if mains > 250 A)		250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 120min	U_T	1000V
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Fault Indication		Red Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; 125V/3A
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]

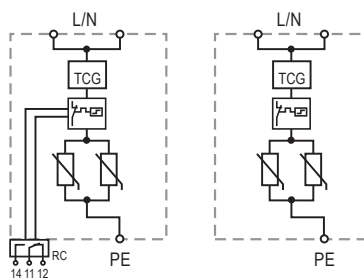
Order Information

Order Code	750
SAFELOC B 12.5/xxx (1+0) WT TCG	54.0590
SAFELOC BR 12.5/xxx (1+0) WT TCG (with remote contacts)	54.0591

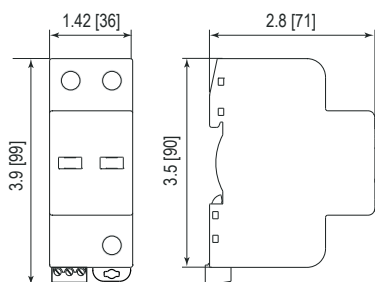
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage



Dimensions & Packaging



Dimensions & Packaging

SafeBloc B 12.5/xxx (1+0) WT TCG		750
Single Unit Weight	pounds [grams]	.959 [435]
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42mm]
Minimum Order Quantity		7 Units
SafeBloc BR 12.5/xxx (1+0) WT TCG		750
Single Unit Weight	pounds [grams]	.970 [440]
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42mm]
Minimum Order Quantity		7 Units

Compact Single Pole SPD for Wind Turbine Systems

25 kA Series

SafeBloc B(R) 25 (1+0) WT TCG

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
Network Systems: TN-S, TN-C, TT (only L-N)
Mode of Protection: L-PE, N-PE, L-PEN, L-N
Surge Ratings: $I_{imp} = 25 \text{ kA}$ (10/350 μs)
 $I_n = 25 \text{ kA}$ (8/20 μs)
IEC/EN Category: Class I, II / Type 1, 2
Protective Elements: High Energy MOV and GDT
Safety: High TOV Immunity
Leakage Current: No Leakage Current
Housing: Compact Design
Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

SafeBloc B(R) 25/xxx (1+0) WT TCG

750

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	600V
Maximum Continuous Operating Voltage (AC)	U_c	750V
Nominal Discharge Current (8/20 μs)	I_n	25 kA
Maximum Discharge Current (8/20 μs)	I_{max}	80 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	25 kA
Specific Energy	W/R	156 kJ/ Ω
Charge	Q	12.5 As
Voltage Protection Level	U_p	< 3.0 kV
Response Time	t_A	< 25 ns
Back-Up Fuse (if mains > 250 A)		250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA
TOV Withstand 120min	U_T	1000V
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Fault Indication		Red Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; 125V/3A
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]

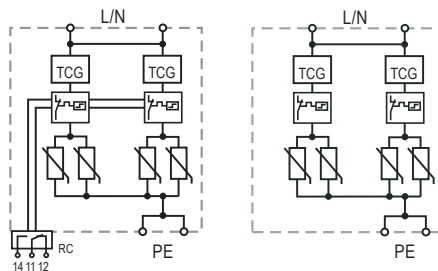
Order Information

Order Code	750
SAFELOC B 25/xxx (1+0) WT TCG	54.0594
SAFELOC BR 25/xxx (1+0) WT TCG (with remote contacts)	54.0595

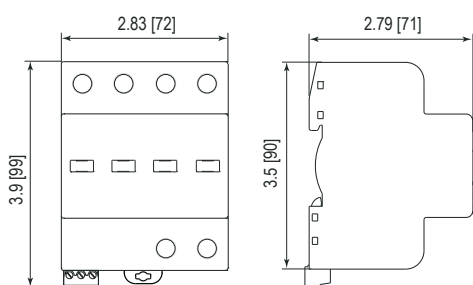
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional
- TCG Thermal Control Function with No Leakage

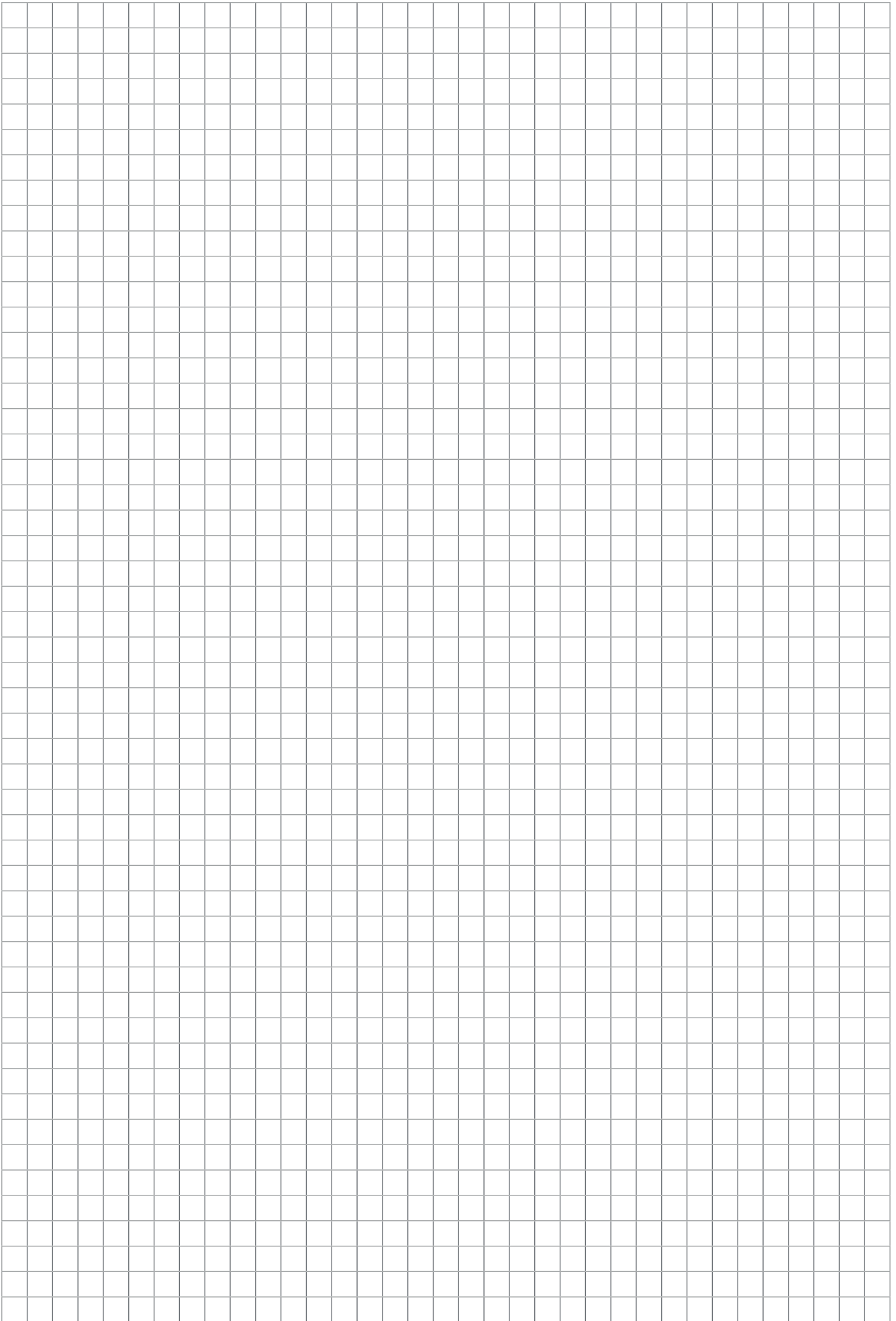


Dimensions & Packaging



Dimensions & Packaging

SafeBloc B 25/xxx (1+0) WT TCG		750
Single Unit Weight	pounds [grams]	1.763 [800]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]
Minimum Order Quantity		3 Units
SafeBloc BR 25/xxx (1+0) WT TCG		750
Single Unit Weight	pounds [grams]	1.785 [810]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]
Minimum Order Quantity		3 Units



Pluggable Single Pole & Multi-pole Surge Protective Devices (SPDs)

- ProTec T2 & ProTec T2-R
- ProTube T2
- ProTec T2H & ProTec T2H-R
- ProTube T2H
- ProTec T2-ADV & ProTec T2-ADV-R
- SafeTec T2 & SafeTec T2-R
- SafeTube T2



Compliance	ProTec T2	ProTec T2H	ProTec T2-ADV	SafeTec T2
IEC 61643-11:2011	✓	✓	✓	✓
EN 61643-11:2012	✓	✓	✓	✓
UL 1449 4th Edition	✓		✓	✓

Raycap's Type 2 (Class II) SPDs are developed as the main protection system for any low voltage electrical installation. This type of surge protection is installed at the electrical panel or switchboard, and prevents overvoltage current spread through the electrical system of an installation, in order to protect loads and safeguard downstream equipment. The Type 2 / Class II SPD has a 8/20 μ s current waveform.

Pluggable Single-Pole SPD
ProTec T2 1+0
 Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-xxx-1+0(-R)		75	150	300	350	480	750
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	750V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA	35 kA
Voltage Protection Level	U_p	800V	1250V	1500V	1750V	2300V	3400V
Response Time	t_A	< 25ns					
Back-Up Fuse (max)		315 A / 250 A gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA					
TOV Withstand 5s	U_T	114V	229V	337V	403V	581V	871V
TOV 120min	U_T	114V	229V	442V	529V	762V	1143V
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					

UL Electrical							
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	750V
Voltage Protection Rating	VPR	330V	600V	900V	1000V	1500V	2500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	100 kA	200 kA	150 kA	200 kA	200 kA	200 kA

Mechanical & Environmental							
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]					
Permissible Operating Humidity	RH	5%...95%					
Altitude		13123 ft [4000m]					
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]					
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)					
Mounting		35 mm DIN Rail, EN 60715					
Degree of Protection		IP 20 (built-in)					
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection		Yes					
Operating State / Fault Indication		Green Flag / Not Green Flag					
Remote Contacts (RC)		Optional					
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A					
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)					

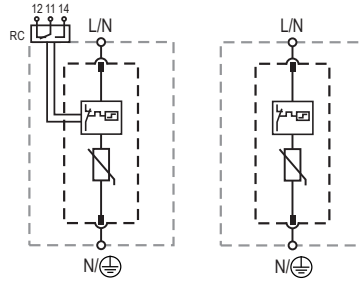
Order Information							
Order Code		75	150	300	350	480	750
ProTec T2-xxx-1+0		59.0069	59.0071	59.0073	59.0075	59.0077	59.0079
ProTec T2-xxx-1+0-R (with remote contacts)		59.0070	59.0072	59.0074	59.0076	59.0078	59.0080
ProTec T2-xxx-P		59.0063	59.0064	59.0065	59.0066	59.0067	59.0068

ProTec T2 1+0

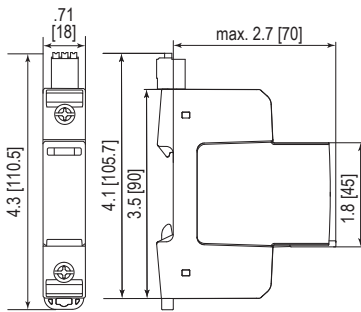
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

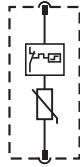


Dimensions & Packaging

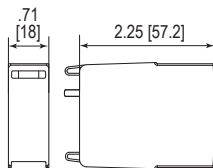
		75	150	300	350	480	750	
ProTec T2-xxx-1+0	Single Unit Weight							
		pounds	.258	.267	.283	.294	.305	.340
		grams	117	121	128	133	138	154
ProTec T2-xxx-1+0-R	Single Unit Weight							
		pounds	.274	.283	.298	.309	.320	.355
		grams	124	128	135	140	145	161
Single Unit DIN 43880 Dimension		1 TE						
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]						
Minimum Order Quantity		12 Units						

Plug Internal Configuration

ProTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	480	750	
ProTec T2-xxx-P	Single Unit Weight							
		pounds	.111	.120	.135	.146	.157	.192
		grams	50	54	61	66	71	87
Single Unit DIN 43880 Dimension		1 TE						
Packaging Dimensions (HxWxL)		3.3 x 4.6 x 12" [83 x 116 x 305 mm]						
Minimum Order Quantity		24 Units						

Pluggable Multi-Pole SPD

ProTec T2 2+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-xxx-2+0(-R)		75	150	300	350	480	750
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	750V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA	50kA	50kA	50kA	50kA	35kA
Voltage Protection Level	U_p	800V	1250V	1500V	1750V	2300V	3400V
Response Time	t_A	< 25ns					
Back-Up Fuse (max)		315 A / 250 A gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25kA / 50kA					
TOV Withstand 5s	U_T	114V	229V	337V	403V	581V	871V
TOV 120min	U_T	114V	229V	442V	529V	762V	1143V
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					

UL Electrical							
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	750V
Voltage Protection Rating	VPR	330V	600V	900V	1000V	1500V	2500V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	100kA	200kA	150kA	200kA	200kA	200kA

Mechanical & Environmental							
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]					
Permissible Operating Humidity	RH	5%...95%					
Altitude		13123 ft [4000m]					
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]					
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)					
Mounting		35 mm DIN Rail, EN 60715					
Degree of Protection		IP 20 (built-in)					
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0					
Thermal Protection		Yes					
Operating State / Fault Indication		Green Flag / Not Green Flag					
Remote Contacts (RC)		Optional					
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A					
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)					

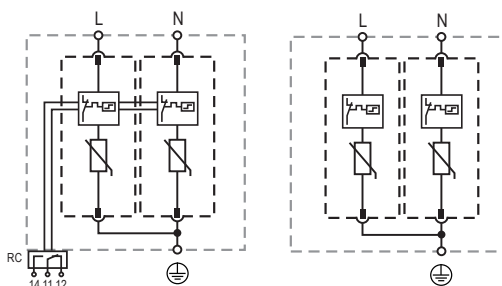
Order Information							
Order Code		75	150	300	350	480	750
ProTec T2-xxx-2+0		59.0343	59.0081	59.0083	59.0085	59.0087	59.0089
ProTec T2-xxx-2+0-R (with remote contacts)		59.0344	59.0082	59.0084	59.0086	59.0088	59.0090
ProTec T2-xxx-P		59.0063	59.0064	59.0065	59.0066	59.0067	59.0068

ProTec T2 2+0

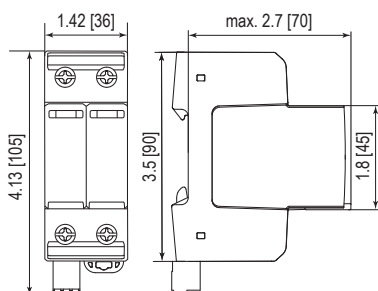
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

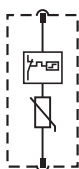


Dimensions & Packaging

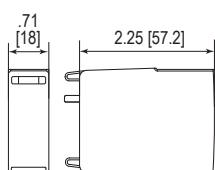
		75	150	300	350	480	750
Single Unit Weight	pounds	.508	.525	.556	.578	.600	.671
	grams	230	238	252	262	272	304
Single Unit Weight	pounds	.538	.556	.587	.609	.631	.702
	grams	244	252	266	276	286	318
Single Unit DIN 43880 Dimension		2 TE					
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]					
Minimum Order Quantity		7 Units					

Plug Internal Configuration

ProTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	480	750
Single Unit Weight	pounds	.111	.120	.135	.146	.157	.192
	grams	50	54	61	66	71	87
Single Unit DIN 43880 Dimension		1 TE					
Packaging Dimensions (HxWxL)		3.3 x 4.6 x 12" [83 x 116 x 305 mm]					
Minimum Order Quantity		24 Units					

Pluggable Multi-Pole SPD

ProTec T2 3+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: $I_n = 20 \text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-xxx-3+0(-R)		150	300	350	480	750
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	120V	240V	277V	400V	600V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V	750V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	35 kA
Voltage Protection Level	U_p	1250V	1500V	1750V	2300V	3400V
Response Time	t_A	< 25 ns				
Back-Up Fuse (max)		315 A / 250 A gG				
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA				
TOV Withstand 5s	U_T	229V	337V	403V	581V	871V
TOV 120min	U_T	229V	442V	529V	762V	1143V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				

UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V	750V
Voltage Protection Rating	VPR	600V	900V	1000V	1500V	2500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	200 kA	200 kA	200 kA

Mechanical & Environmental						
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]				
Permissible Operating Humidity	RH	5%...95%				
Altitude		13123 ft [4000 m]				
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green Flag / Not Green Flag				
Remote Contacts (RC)		Optional				
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)				

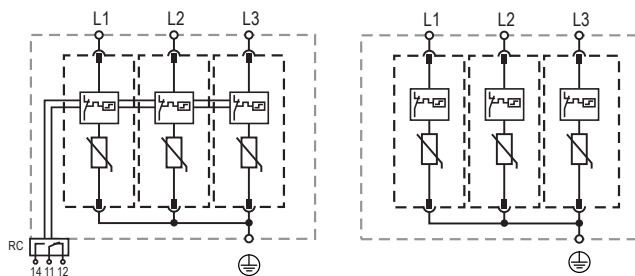
Order Information						
Order Code		150	300	350	480	750
ProTec T2-xxx-3+0		59.0091	59.0093	59.0095	59.0097	59.0099
ProTec T2-xxx-3+0-R (with remote contacts)		59.0092	59.0094	59.0096	59.0098	59.0100
ProTec T2-xxx-P		59.0064	59.0065	59.0066	59.0067	59.0068

ProTec T2 3+0

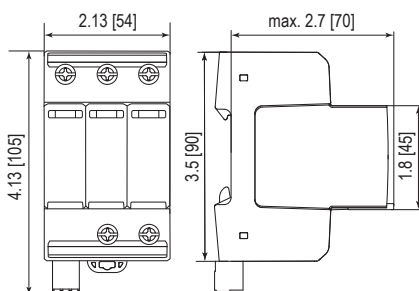
Internal Configuration

Legend

- L Line
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

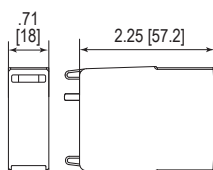
		150	300	350	480	750
Single Unit Weight	pounds	.761	.807	.840	.874	.979
	grams	345	366	381	396	444
Single Unit Weight	pounds	.783	.829	.862	.896	1.001
	grams	355	376	391	406	454
Single Unit DIN 43880 Dimension				3 TE		
Packaging Dimensions (HxWxL)				4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]		
Minimum Order Quantity				5 Units		

Plug Internal Configuration

ProTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480	750
Single Unit Weight	pounds	.120	.135	.146	.157	.192
	grams	54	61	66	71	87
Single Unit DIN 43880 Dimension				1 TE		
Packaging Dimensions (HxWxL)				3.3 x 4.6 x 12" [83 x 116 x 305 mm]		
Minimum Order Quantity				24 Units		

Pluggable Multi-Pole SPD
ProTec T2 4+0
 Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-xxx-4+0(-R)		150	300	350	480
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U_o/U_n	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA
Voltage Protection Level	U_p	1250V	1500V	1750V	2300V
Response Time	t_A	< 25 ns			
Back-Up Fuse (max)		315 A / 250 A gG			
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA			
TOV Withstand 5s	U_T	229V	337V	403V	581V
TOV 120min	U_T	229V	442V	529V	762V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1			

UL Electrical					
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V
Voltage Protection Rating	VPR	600V	900V	1000V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	200 kA	200 kA

Mechanical & Environmental					
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000 m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)			

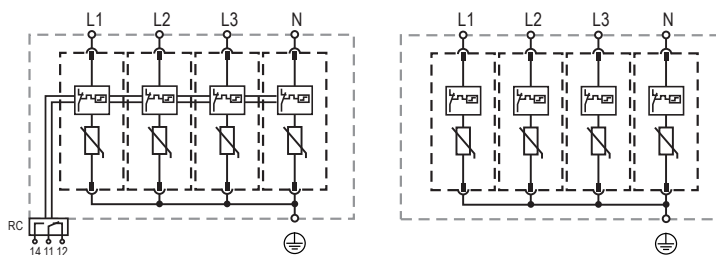
Order Information					
Order Code		150	300	350	480
ProTec T2-xxx-4+0		59.0101	59.0103	59.0300	59.0105
ProTec T2-xxx-4+0-R (with remote contacts)		59.0102	59.0104	59.0301	59.0106
ProTec T2-xxx-P		59.0064	59.0065	59.0066	59.0067

ProTec T2 4+0

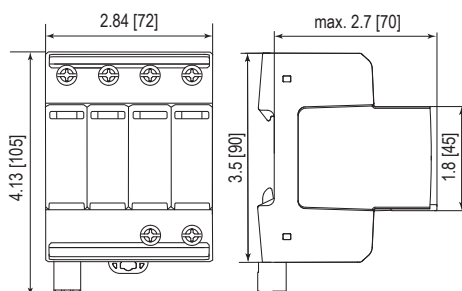
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

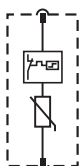


Dimensions & Packaging

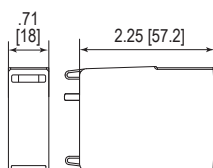
		150	300	350	480
Single Unit Weight	pounds	1.032	1.094	1.138	1.182
	grams	468	496	516	536
Single Unit Weight	pounds	1.052	1.114	1.158	1.202
	grams	477	505	525	545
Single Unit DIN 43880 Dimension		4 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		4 Units			

Plug Internal Configuration

ProTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480
Single Unit Weight	pounds	.120	.135	.146	.157
	grams	54	61	66	71
Single Unit DIN 43880 Dimension		1 TE			
Packaging Dimensions (HxWxL)		3.3 x 4.6 x 12" [83 x 116 x 305 mm]			
Minimum Order Quantity		24 Units			

Pluggable Multi-Pole SPD

ProTec T2 1+1

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

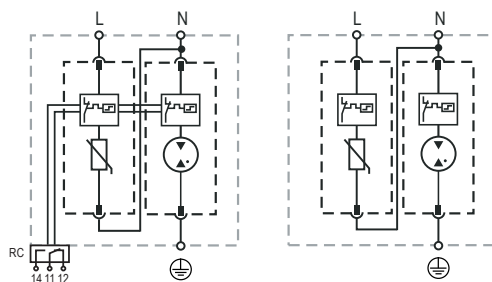
ProTec T2-xxx-1+1(-R)		75	150	300	350
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U_o/U_n	60 V	120 V	240 V	277 V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	75 V	150 V	300 V	350 V
	(N-PE) U_c	305 V	305 V	305 V	305 V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 40 kA	20 kA / 40 kA	20 kA / 40 kA	20 kA / 40 kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 65 kA	50 kA / 65 kA	50 kA / 65 kA	50 kA / 65 kA
Voltage Protection Level	(L-N)/(N-PE) U_p	800 V / 1500 V	1250 V / 1500 V	1500 V / 1500 V	1750 V / 1500 V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}			
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns			
Back-Up Fuse (max)		315 A / 250 A gG			
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA / 50 kA			
TOV Withstand 5s	(L-N) U_T	114 V	229 V	337 V	403 V
TOV 120min	(L-N) U_T	114 V	229 V	442 VI	529 V
		mode	Withstand	Withstand	Safe Fail
TOV Withstand 200ms	(N-PE) U_T	1200 V			
Number of Ports		1			
UL Electrical					
Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) MCOV	75 V / 305 V	150 V / 305 V	300 V / 305 V	350 V / 305 V
Voltage Protection Rating	(L-N)/(N-PE) VPR	330 V / 1000 V	600 V / 1000 V	900 V / 1000 V	1000 V / 1000 V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 20 kA			
Short-Circuit Current Rating (AC)	(L-N) SCCR	100 kA	200 kA	150 kA	200 kA
Mechanical & Environmental					
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000 m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)			
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)			
Order Information					
Order Code		75	150	300	350
ProTec T2-xxx-1+1		59.0109	59.0111	59.0113	59.0115
ProTec T2-xxx-1+1-R (with remote contacts)		59.0110	59.0112	59.0114	59.0116
ProTec T2-xxx-P		59.0063	59.0064	59.0065	59.0066
ProTube T2-40-P		59.0273	59.0273	59.0273	59.0273

ProTec T2 1+1

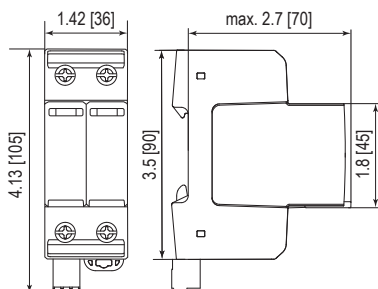
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

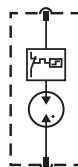
		75	150	300	350
ProTec T2-xxx-1+1	Single Unit Weight	pounds .492	.501	.516	.527
		grams 223	227	234	239
ProTec T2-xxx-1+1-R	Single Unit Weight	pounds .505	.514	.530	.541
		grams 229	233	240	245
Single Unit DIN 43880 Dimension		2 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		7 Units			

Plug Internal Configuration

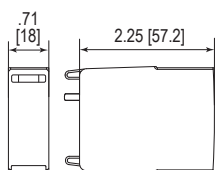
ProTec T2-xxx-P



ProTube T2-40-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350
ProTec T2-xxx-P	Single Unit Weight	pounds .120	.135	.146	.157
		grams 54	61	66	71
ProTube T2-40-P	Single Unit Weight	pounds .093			
		grams 42			
Single Unit DIN 43880 Dimension		1 TE			
Packaging Dimensions (HxWxL)		3.3 x 4.6 x 12" [83 x 116 x 305 mm]			
Minimum Order Quantity		24 Units			

Pluggable Multi-Pole SPD

ProTec T2 3+1

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

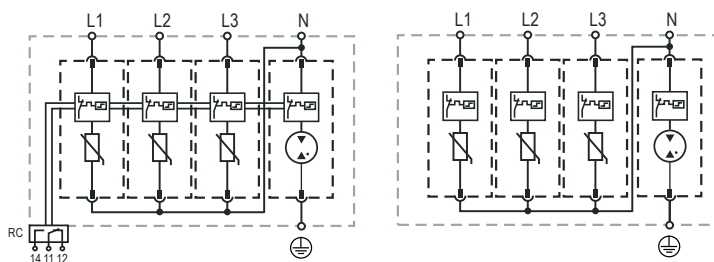
ProTec T2-xxx-3+1(-R)		300	350
IEC Electrical			
Nominal AC Voltage (50/60Hz)	U_o/U_n	240 V	277 V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	300 V	350 V
	(N-PE) U_c	305 V	305 V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 40 kA	20 kA / 40 kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 65 kA	50 kA / 65 kA
Voltage Protection Level	(L-N)/(N-PE) U_p	1500 V / 1500 V	1750 V / 1500 V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}	
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns	
Back-Up Fuse (max)		315 A / 250 A gG	
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA / 50 kA	
TOV Withstand 5s	(L-N) U_T	337 V	403 V
TOV 120min	(L-N) U_T	442 V	529
	mode	Safe Fail	Safe Fail
TOV Withstand 200ms	(N-PE) U_T	1200 V	
Number of Ports		1	
UL Electrical			
Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) MCOV	300 V / 305 V	350 V / 305 V
Voltage Protection Rating	(L-N)/(N-PE) VPR	900 V / 1000 V	1000 V / 1000 V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 20 kA	
Short-Circuit Current Rating (AC)	(L-N) SCCR	150 kA	200 kA
Mechanical & Environmental			
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%...95%	
Altitude		13123 ft [4000 m]	
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5 A, 24V/0.5 A, 12V/0.5 A	
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)	
Order Information			
Order Code		300	350
ProTec T2-xxx-3+1		59.0121	59.0123
ProTec T2-xxx-3+1-R (with remote contacts)		59.0122	59.0124
ProTec T2-xxx-P		59.0065	59.0066
ProTube T2-40-P		59.0273	59.0273

ProTec T2 3+1

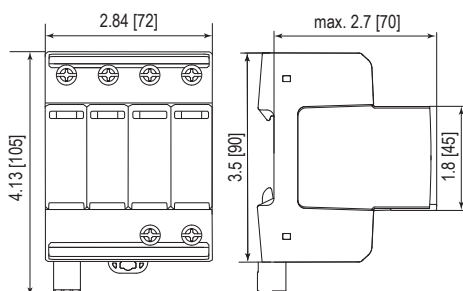
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

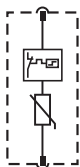


Dimensions & Packaging

		300	350
ProTec T2-xxx-3+1	Single Unit Weight	pounds 1.052	1.085
		grams 477	492
ProTec T2-xxx-3+1-R	Single Unit Weight	pounds 1.072	1.105
		grams 486	501
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]	
Minimum Order Quantity		4 Units	

Plug Internal Configuration

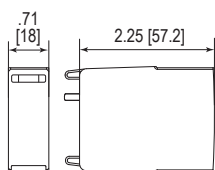
ProTec T2-xxx-P



ProTube T2-40-P



Dimensions & Packaging



Dimensions & Packaging

		300	350
ProTec T2-xxx-P	Single Unit Weight	pounds .135	.146
		grams 61	66
ProTube T2-40-P	Single Unit Weight	pounds .093	.100
		grams 42	45
Single Unit DIN 43880 Dimension		1 TE	
Packaging Dimensions (HxWxL)		3.3 x 4.6 x 12" [83 x 116 x 305 mm]	
Minimum Order Quantity		24 Units	

Pluggable Multi-Pole SPD
ProTube T2 40 0+1
 Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: N-PE
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: GDT with Thermal Disconnecter
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTube T2-xxx-0+1(-R)

40

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o / U_n	0V
Maximum Continuous Operating Voltage	U_c	305V
Nominal Discharge Current (8/20 μs)	I_n	40 kA
Maximum Discharge Current (8/20 μs)	I_{max}	65 kA
Voltage Protection Level	U_p	1500V
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V
Number of Ports		1

UL Electrical

Maximum Continuous Operating Voltage (AC)	MCOV	305V
Voltage Protection Rating	VPR	1000V
Nominal Discharge Current (8/20 μs)	I_n	20 kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000 m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

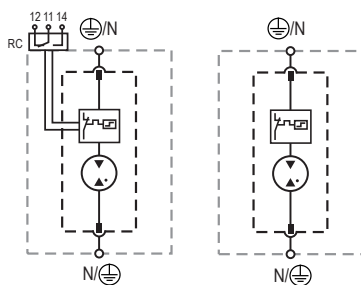
Order Code	40
ProTube T2-xxx-0+1	59.0280
ProTube T2-xxx-0+1-R (with remote contacts)	59.0336
ProTube T2-40-P	59.0273

ProTube T2 40 0+1

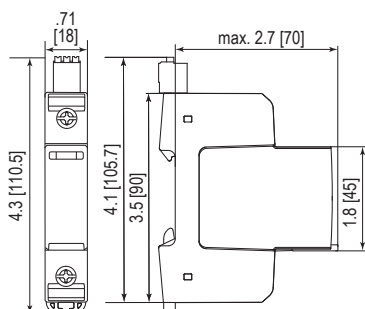
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

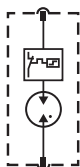


Dimensions & Packaging

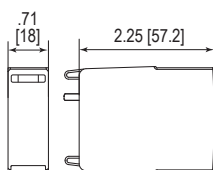
ProTube T2-xxx-0+1		40
Single Unit Weight	pounds	.255
	grams	116
ProTube T2-xxx-0+1-R		40
Single Unit Weight	pounds	.271
	grams	123
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		12 Units

Plug Internal Configuration

ProTube T2-40-P



Dimensions & Packaging



Dimensions & Packaging

ProTube T2-40-P		40
Single Unit Weight	pounds	.093
	grams	42
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		3.3 x 4.6 x 12" [83 x 116 x 305 mm]
Minimum Order Quantity		24 Units

Pluggable Single and Multi-Pole SPD
ProTec T2H 1+0
 Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 Surge Ratings: $I_n = 20\text{ kA (8/20}\mu\text{s)}$
 $I_{max} = 50\text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV in series with GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T2H-xxx-1+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

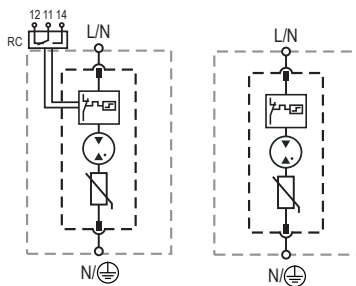
Order Code	300
ProTec T2H-xxx-1+0	59.0324
ProTec T2H-xxx-1+0-R (with remote contacts)	59.0325
ProTec T2H-xxx-P	59.0322

ProTec T2H 1+0

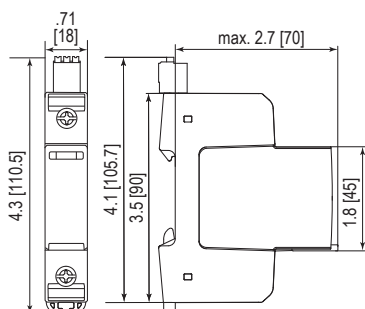
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

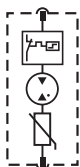


Dimensions & Packaging

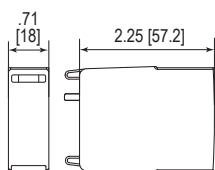
ProTec T2H-xxx-1+0		300
Single Unit Weight	pounds [grams]	.292 [132]
ProTec T2H-xxx-1+0-R		300
Single Unit Weight	pounds [grams]	.307 [139]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		12 Units

Plug Internal Configuration

ProTec T2H-xxx-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-P		300
Single Unit Weight	pounds [grams]	.144 [65]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		24 Units

Pluggable Single and Multi-Pole SPD
ProTec T2H 2+0
 Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 $I_{\text{max}} = 50 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV in series with GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T2H-xxx-2+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

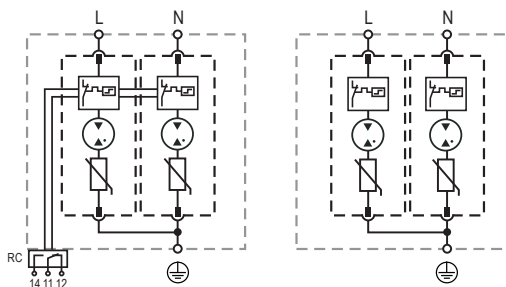
Order Code	300
ProTec T2H-xxx-2+0	59.0326
ProTec T2H-xxx-2+0-R (with remote contacts)	59.0327
ProTec T2H-xxx-P	59.0322

ProTec T2H 2+0

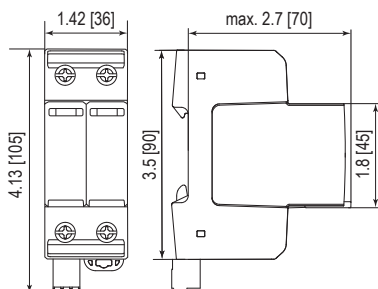
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

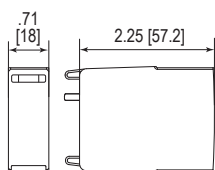
ProTec T2H-xxx-2+0		300
Single Unit Weight	pounds [grams]	.574 [260]
ProTec T2H-xxx-2+0-R		300
Single Unit Weight	pounds [grams]	.605 [274]
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (HxWxL)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]
Minimum Order Quantity		7 Units

Plug Internal Configuration

ProTec T2H-xxx-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-P		300
Single Unit Weight	pounds [grams]	.144 [65]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 × 4.5 × 13.8" [109 × 115 × 352 mm]
Minimum Order Quantity		24 Units

Pluggable Single and Multi-Pole SPD

ProTec T2H 3+0

Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 $I_{\text{max}} = 50 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV in series with GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T2H-xxx-3+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

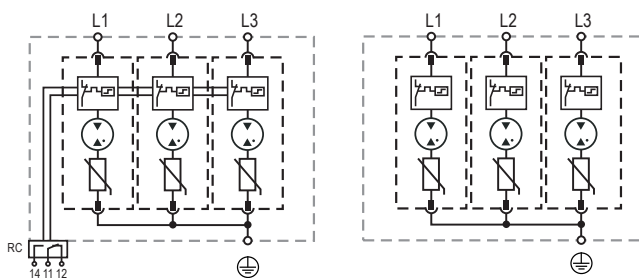
Order Code		300
ProTec T2H-xxx-3+0		59.0328
ProTec T2H-xxx-3+0-R (with remote contacts)		59.0329
ProTec T2H-xxx-P		59.0322

ProTec T2H 3+0

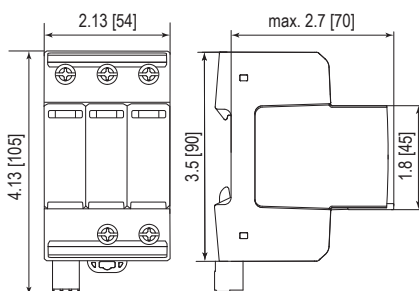
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

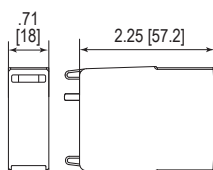
ProTec T2H-xxx-3+0		300
Single Unit Weight	pounds [grams]	.834 [378]
ProTec T2H-xxx-3+0-R		300
Single Unit Weight	pounds [grams]	.856 [388]
Single Unit DIN 43880 Dimension		3 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		5 Units

Plug Internal Configuration

ProTec T2H-xxx-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-P		300
Single Unit Weight	pounds [grams]	.144 [65]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		24 Units

Pluggable Single and Multi-Pole SPD

ProTec T2H 4+0

Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20\text{ kA (8/20}\mu\text{s)}$
 $I_{max} = 50\text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV in series with GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T2H-xxx-4+0(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	U_c	300V
Nominal Discharge Current (8/20 μs)	I_n	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA
Voltage Protection Level	U_p	1500V
Response Time	t_A	< 25 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA
TOV Withstand 120min	U_T	442V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

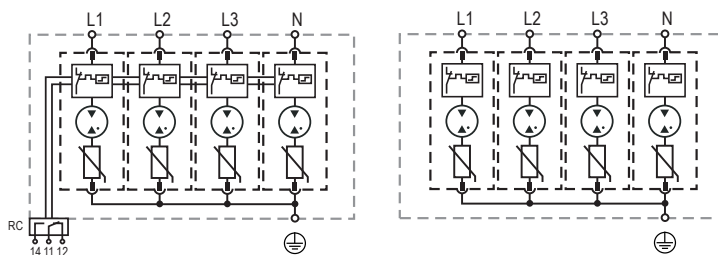
Order Code	300
ProTec T2H-xxx-4+0	59.0330
ProTec T2H-xxx-4+0-R (with remote contacts)	59.0331
ProTec T2H-xxx-P	59.0322

ProTec T2H 4+0

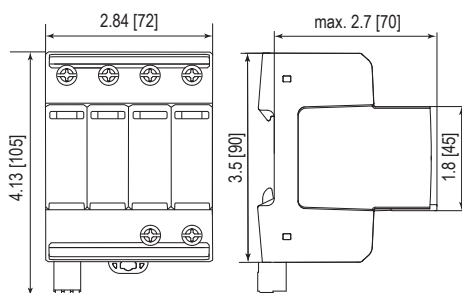
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

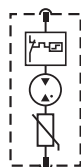


Dimensions & Packaging

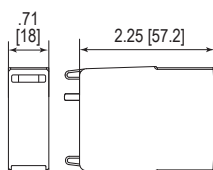
ProTec T2H-xxx-4+0	300
Single Unit Weight	pounds [grams] 1.129 [512]
ProTec T2H-xxx-4+0-R	300
Single Unit Weight	pounds [grams] 1.149 [521]
Single Unit DIN 43880 Dimension	4 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	4 Units

Plug Internal Configuration

ProTec T2H-xxx-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-P	300
Single Unit Weight	pounds [grams] .144 [65]
Single Unit DIN 43880 Dimension	1 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	24 Units

Pluggable Single and Multi-Pole SPD

ProTec T2H 1+1

Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA (8/20}\mu\text{s)}$
 $I_{\text{max}} = 50\text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV in series with GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T2H-xxx-1+1(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) / (N-PE) U_c	300V / 305V
Nominal Discharge Current (8/20 μs)	(L-N) / (N-PE) I_n	20 kA / 40 kA
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE) I_{max}	50 kA / 65 kA
Voltage Protection Level	(L-N) / (N-PE) U_p	1500V / 1500V
Response Time	(L-N) / (N-PE) t_A	<25 ns / <100 ns
Back-Up Fuse (max)		315 A / 250 A gG
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA / 50 kA
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A_{RMS}
TOV Withstand 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000 m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

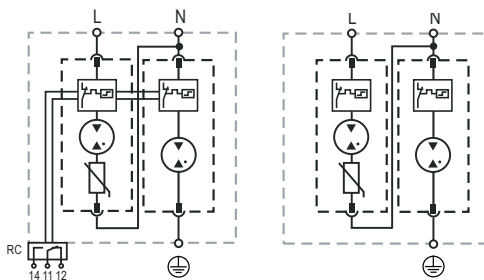
Order Code	300
ProTec T2H-xxx-1+1	59.0332
ProTec T2H-xxx-1+1-R (with remote contacts)	59.0333
ProTec T2H-xxx-P	59.0322
ProTube T2H-40-P	59.0323

ProTec T2H 1+1

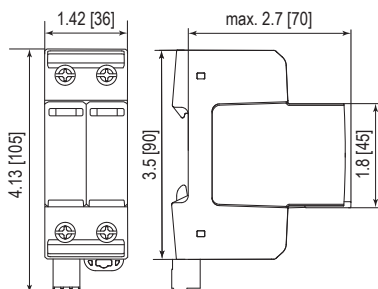
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

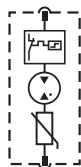


Dimensions & Packaging

ProTec T2H-xxx-1+1	300
Single Unit Weight	pounds [grams] .525 [238]
ProTec T2H-xxx-1+1-R	300
Single Unit Weight	pounds [grams] .538 [244]
Single Unit DIN 43880 Dimension	2 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	7 Units

Plug Internal Configuration

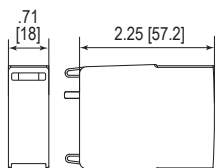
ProTec T2H-xxx-P



ProTube T2H-40-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-P	300
Single Unit Weight	pounds [grams] .144 [65]
ProTube T2H-40-P	40
Single Unit Weight	pounds [grams] .093 [42]
Single Unit DIN 43880 Dimension	1 TE
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity	24 Units

Pluggable Single and Multi-Pole SPD

ProTec T2H 3+1

Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA (8/20}\mu\text{s)}$
 $I_{\text{max}} = 50\text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV in series with GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec T2H-xxx-3+1(-R)

300

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) / (N-PE) U_c	300V / 305V
Nominal Discharge Current (8/20 μs)	(L-N) / (N-PE) I_n	20kA / 40kA
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE) I_{max}	50kA / 65kA
Voltage Protection Level	(L-N) / (N-PE) U_p	1500V / 1500V
Response Time	(L-N) / (N-PE) t_A	<25ns / <100ns
Back-Up Fuse (max)		315A / 250A gG
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25kA / 50kA
Follow Current Interrupt Rating	(N-PE) I_{fi}	100A _{RMS}
TOV Withstand 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

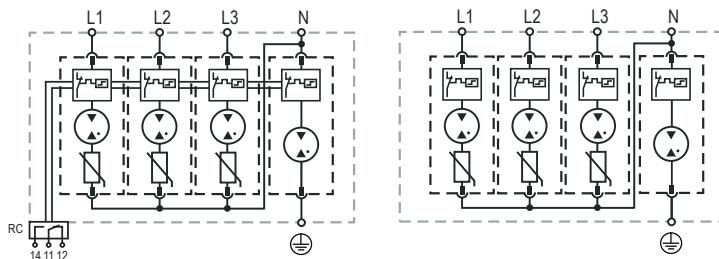
Order Code	300
ProTec T2H-xxx-3+1	59.0334
ProTec T2H-xxx-3+1-R (with remote contacts)	59.0335
ProTec T2H-xxx-P	59.0322
ProTube T2H-40-P	59.0323

ProTec T2H 3+1

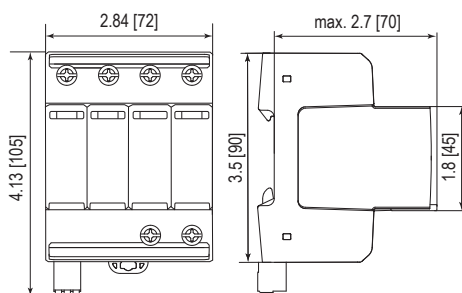
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-3+1		300
Single Unit Weight	pounds [grams]	.810 [367]
ProTec T2H-xxx-3+1-R		300
Single Unit Weight	pounds [grams]	.829 [376]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		4 Units

Plug Internal Configuration

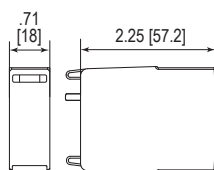
ProTec T2H-xxx-P



ProTube T2H-40-P



Dimensions & Packaging



Dimensions & Packaging

ProTec T2H-xxx-P		300
Single Unit Weight	pounds [grams]	.144 [65]
ProTube T2H-40-P		40
Single Unit Weight	pounds [grams]	.093 [42]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		24 Units

Pluggable Single and Multi-Pole SPD
ProTube T2H 40 0+1
 Class II • Type 2



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: N-PE
 Surge Ratings: $I_n = 40 \text{ kA (8/20}\mu\text{s)}$
 $I_{\text{max}} = 65 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy GDT with
 Thermal Disconnect
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTube T2H-xxx-0+1(-R)

40

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	0V
Maximum Continuous Operating Voltage (AC)	U_c	305V
Nominal Discharge Current (8/20 μs)	I_n	40kA
Maximum Discharge Current (8/20 μs)	I_{max}	65kA
Voltage Protection Level	U_p	1500V
Follow Current Interrupt Rating	I_{fi}	100A _{RMS}
Response Time	t_A	< 100ns
TOV Withstand 120min	U_T	1200V
Number of Ports		1

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

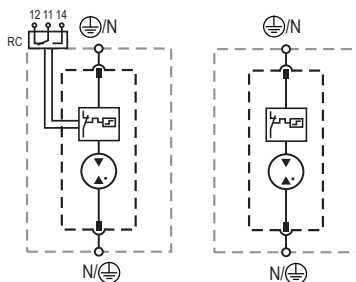
Order Code	40
ProTube T2H-xxx-0+1	59.0341
ProTube T2H-xxx-0+1-R (with remote contacts)	59.0342
ProTube T2H-40-P	59.0323

ProTube T2H 40 0+1

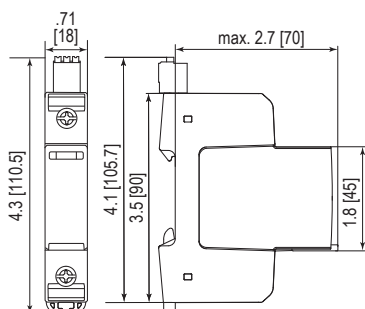
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

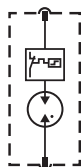


Dimensions & Packaging

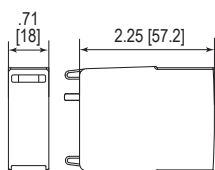
ProTube T2H-xxx-0+1		40
Single Unit Weight	pounds [grams]	.255 [116]
ProTube T2H-xxx-0+1-R		40
Single Unit Weight	pounds [grams]	.275 [125]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		12 Units

Plug Internal Configuration

ProTube T2H-40-P



Dimensions & Packaging



Dimensions & Packaging

ProTube T2H-40-P		40
Single Unit Weight	pounds [grams]	.093 [42]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		24 Units

Pluggable Single-Pole SPD
ProTec T2-ADV 1+0
 Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 $I_{max} = 50\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-ADV-xxx-1+0(-R)		75	150	300	350	480
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA
Voltage Protection Level	U_p	600V	1000V	1300V	1700V	2000V
Response Time	t_A	< 25ns				
Back-Up Fuse (max)		160A gG				
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA				
TOV Withstand 5s	U_T	114V	229V	337V	403V	581V
TOV 120min	U_T	114V	229V	442V	528V	762V
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				

UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V
Voltage Protection Rating	VPR	400V	600V	900V	1200V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	100 kA	200 kA	150 kA	200 kA	200 kA

Mechanical & Environmental						
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]				
Permissible Operating Humidity	RH	5%...95%				
Altitude		13123 ft [4000m]				
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green Flag / Not Green Flag				
Remote Contacts (RC)		Optional				
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)				

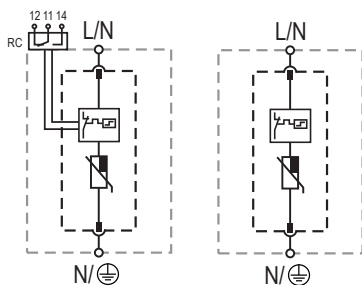
Order Information						
Order Code		75	150	300	350	480
ProTec T2-ADV-xxx-1+0		59.0208	59.0210	59.0212	59.0214	59.0216
ProTec T2-ADV-xxx-1+0-R (with remote contacts)		59.0209	59.0211	59.0213	59.0215	59.0217
ProTec T2-ADV-xxx-P		59.0202	59.0203	59.0204	59.0205	59.0206

ProTec T2-ADV 1+0

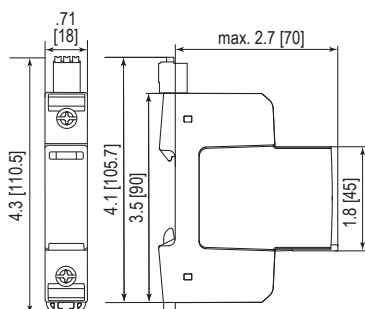
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



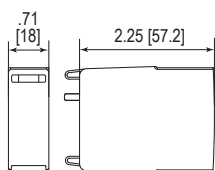
Dimensions & Packaging						
ProTec T2-ADV-xxx-1+0		75	150	300	350	480
Single Unit Weight	pounds	.266	.275	.291	.302	.304
	grams	121	125	132	137	144
ProTec T2-ADV-xxx-1+0-R		75	150	300	350	480
Single Unit Weight	pounds	.283	.291	.306	.317	.328
	grams	128	132	139	144	149
Single Unit DIN 43880 Dimension				1 TE		
Packaging Dimensions (HxWxL)				4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]		
Minimum Order Quantity				12 Units		

Plug Internal Configuration

ProTec T2-ADV-xxx-P



Dimensions & Packaging



Dimensions & Packaging						
ProTec T2-ADV-xxx-P		75	150	300	350	480
Single Unit Weight	pounds	.120	.127	.143	.154	.165
	grams	54	58	65	70	75
Single Unit DIN 43880 Dimension				1 TE		
Packaging Dimensions (HxWxL)				4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]		
Minimum Order Quantity				24 Units		

Pluggable Multi-Pole SPD

ProTec T2-ADV 2+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 $I_{max} = 50 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-ADV-xxx-2+0(-R)		75	150	300	350	480
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA
Voltage Protection Level	U_p	600V	1000V	1300V	1700V	2000V
Response Time	t_A	< 25ns				
Back-Up Fuse (max)		160A gG				
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA				
TOV Withstand 5s	U_T	114V	229V	337V	403V	581V
TOV 120min	U_T	114V	229V	442V	528V	762V
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				

UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V
Voltage Protection Rating	VPR	400V	600V	900V	1200V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	100 kA	200 kA	150 kA	200 kA	200 kA

Mechanical & Environmental						
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]				
Permissible Operating Humidity	RH	5%...95%				
Altitude		13123 ft [4000m]				
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green Flag / Not Green Flag				
Remote Contacts (RC)		Optional				
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)				

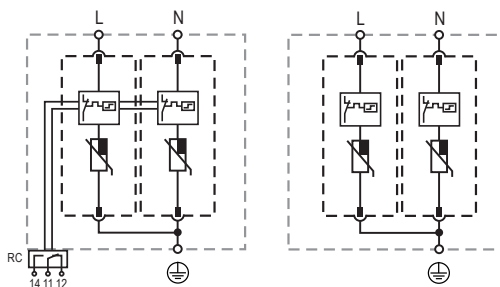
Order Information						
Order Code		75	150	300	350	480
ProTec T2-ADV-xxx-2+0		59.0347	59.0220	59.0222	59.0224	59.0226
ProTec T2-ADV-xxx-2+0-R (with remote contacts)		59.0348	59.0221	59.0223	59.0225	59.0227
ProTec T2-ADV-xxx-P		59.0202	59.0203	59.0204	59.0205	59.0206

ProTec T2-ADV 2+0

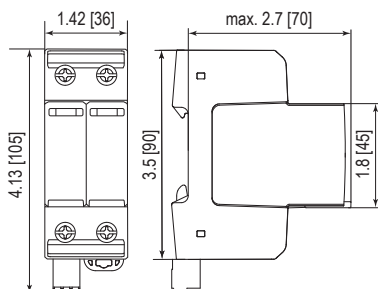
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

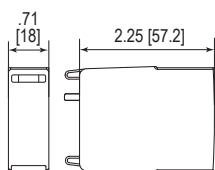
		75	150	300	350	480
Single Unit Weight	pounds	.524	.542	.573	.595	.617
	grams	238	246	260	270	280
Single Unit Weight	pounds	.555	.573	.590	.626	.648
	grams	252	260	268	284	294
Single Unit DIN 43880 Dimension		2 TE				
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity		7 Units				

Plug Internal Configuration

ProTec T2-ADV-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	480
Single Unit Weight	pounds	.120	.127	.143	.154	.165
	grams	54	58	65	70	75
Single Unit DIN 43880 Dimension		1 TE				
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity		24 Units				

Pluggable Multi-Pole SPD ProTec T2-ADV 3+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: $I_n = 20 \text{ kA (8/20 } \mu\text{s)}$
 $I_{\text{max}} = 50 \text{ kA (8/20 } \mu\text{s)}$
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-ADV-xxx-3+0(-R)

		150	300	350	480
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U_o/U_n	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA	50kA	50kA	50kA
Voltage Protection Level	U_p	1000V	1300V	1700V	2000V
Response Time	t_A	< 25 ns			
Back-Up Fuse (max)		160A gG			
Short-Circuit Current Rating (AC)	I_{SCCR}	50kA			
TOV Withstand 5s	U_T	229V	337V	403V	581V
TOV 120min	U_T	229V	442V	528V	762V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1			

UL Electrical

Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V
Voltage Protection Rating	VPR	600V	900V	1200V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	200kA	150kA	200kA	200kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)			

Order Information

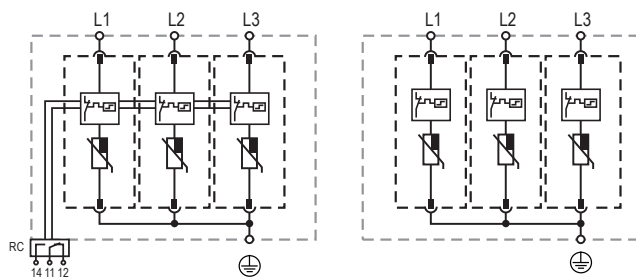
Order Code	150	300	350	480
ProTec T2-ADV-xxx-3+0	59.0228	59.0230	59.0232	59.0234
ProTec T2-ADV-xxx-3+0-R (with remote contacts)	59.0229	59.0231	59.0233	59.0235
ProTec T2-ADV-xxx-P	59.0203	59.0204	59.0205	59.0206

ProTec T2-ADV 3+0

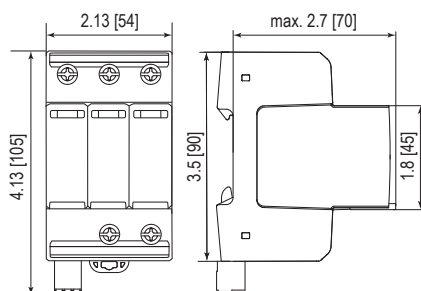
Internal Configuration

Legend

- L Line
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

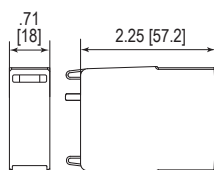
		150	300	350	480
Single Unit Weight	pounds	.787	.833	.866	.899
	grams	357	378	393	408
		150	300	350	480
Single Unit Weight	pounds	.809	.855	.888	.921
	grams	367	388	403	418
Single Unit DIN 43880 Dimension		3 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		5 Units			

Plug Internal Configuration

ProTec T2-ADV-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480
Single Unit Weight	pounds	.127	.143	.154	.165
	grams	58	65	70	75
Single Unit DIN 43880 Dimension		1 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		24 Units			

Pluggable Multi-Pole SPD ProTec T2-ADV 4+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 $I_{\text{max}} = 50\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-ADV-xxx-4+0(-R)

		150	300	350	480
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U_o/U_n	120V	240V	277V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA	50kA	50kA	50kA
Voltage Protection Level	U_p	1000V	1300V	1700V	2000V
Response Time	t_A	< 25 ns			
Back-Up Fuse (max)		160A gG			
Short-Circuit Current Rating (AC)	I_{SCCR}	50kA			
TOV Withstand 5s	U_T	229V	337V	403V	581V
TOV 120min	U_T	229V	442V	528V	762V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1			

UL Electrical

Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V
Voltage Protection Rating	VPR	600V	900V	1200V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	200kA	150kA	200kA	200kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)			

Order Information

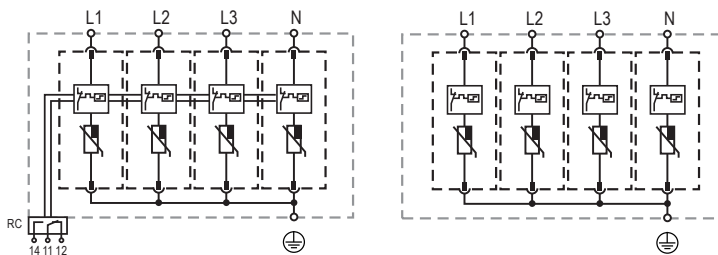
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ProTec T2-ADV-xxx-4+0	59.0236	59.0238	59.0240	59.0242
ProTec T2-ADV-xxx-4+0-R (with remote contacts)	59.0237	59.0239	59.0241	59.0243
ProTec T2-ADV-xxx-P	59.0203	59.0204	59.0205	59.0206

ProTec T2-ADV 4+0

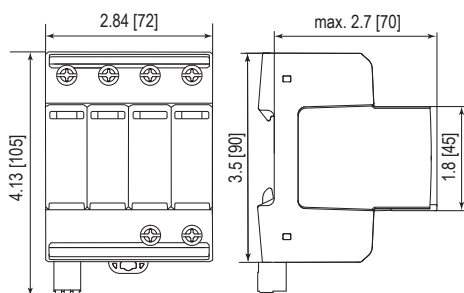
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

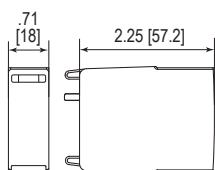
		150	300	350	480
Single Unit Weight	pounds	1.067	1.128	1.172	1.216
	grams	484	512	532	552
Single Unit Weight	pounds	1.086	1.148	1.192	1.236
	grams	493	521	541	561
Single Unit DIN 43880 Dimension		4 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		4 Units			

Plug Internal Configuration

ProTec T2-ADV-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480
Single Unit Weight	pounds	.127	.143	.154	.165
	grams	58	65	70	75
Single Unit DIN 43880 Dimension		1 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		24 Units			

Pluggable Multi-Pole SPD ProTec T2-ADV 1+1

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA (8/20 }\mu\text{s)}$
 $I_{\text{max}} = 50\text{ kA (8/20 }\mu\text{s)}$
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-ADV-xxx-1+1(-R)

		75	150	300	350
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	75V	150V	300V	350V
	(N-PE) U_c	305V	305V	305V	305V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 40 kA	20 kA / 40 kA	20 kA / 40 kA	20 kA / 40 kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 65 kA	50 kA / 65 kA	50 kA / 65 kA	50 kA / 65 kA
Voltage Protection Level	(L-N)/(N-PE) U_p	600V / 1500V	1000V / 1500V	1300V / 1500V	1700V / 1500V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}			
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns			
Back-Up Fuse (max)		160A gG			
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA			
TOV Withstand 5s	(L-N) U_T	114V	229V	337V	403V
	(L-N) U_T	114V	229V	442V	528V
TOV 120min	mode	Withstand	Withstand	Safe Fail	Safe Fail
	(N-PE) U_T	1200V			
TOV Withstand 200ms	(N-PE) U_T	1200V			
Number of Ports		1			

UL Electrical

Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) MCOV	75V / 305V	150V / 305V	300V / 305V	350V / 305V
Voltage Protection Rating	(L-N)/(N-PE) VPR	400V / 1000V	600V / 1000V	900V / 1000V	1200V / 1000V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 20 kA			
Short-Circuit Current Rating (AC)	(L-N) SCCR	100 kA	200 kA	150 kA	200 kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude		13123 ft [4000m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)			
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)			

Order Information

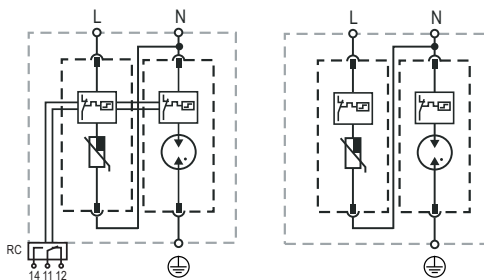
Order Code	75	150	300	350
ProTec T2-ADV-xxx-1+1	59.0244	59.0246	59.0248	59.0250
ProTec T2-ADV-xxx-1+1-R (with remote contacts)	59.0245	59.0247	59.0249	59.0251
ProTec T2-ADV-xxx-P	59.0203	59.0204	59.0205	59.0206
ProTube T2-ADV-40-P	59.0275	59.0275	59.0275	59.0275

ProTec T2-ADV 1+1

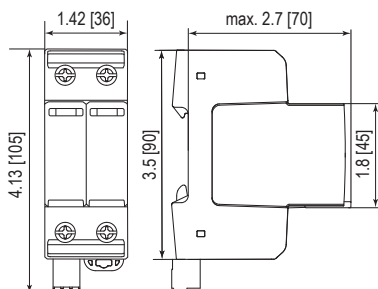
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

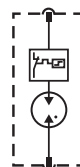
		75	150	300	350
ProTec T2-ADV-xxx-1+1					
Single Unit Weight	pounds	.500	.509	.524	.535
	grams	227	231	238	243
ProTec T2-ADV-xxx-1+1-R					
Single Unit Weight	pounds	.513	.522	.537	.548
	grams	233	237	244	249
Single Unit DIN 43880 Dimension		2 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		7 Units			

Plug Internal Configuration

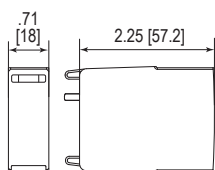
ProTec T2-ADV-xxx-P



ProTube T2-ADV-40-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350
ProTec T2-ADV-xxx-P					
Single Unit Weight	pounds	.120	.127	.143	.154
	grams	54	58	65	70
ProTube T2-ADV-40-P			40		
Single Unit Weight	pounds		.093		
	grams		42		
Single Unit DIN 43880 Dimension		1 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		24 Units			

Pluggable Multi-Pole SPD

ProTec T2-ADV 3+1

Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 $I_{\text{max}} = 50\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

ProTec T2-ADV-xxx-3+1(-R)

		300	350
IEC Electrical			
Nominal AC Voltage (50/60Hz)	U_o/U_n	240V	277V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	300V	350V
	(N-PE) U_c	305V	305V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 40 kA	20 kA / 40 kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50 kA / 65 kA	50 kA / 65 kA
Voltage Protection Level	(L-N)/(N-PE) U_p	1300V / 1500V	1700V / 1500V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100 A _{RMS}	
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns	
Back-Up Fuse (max)		160 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}	50 kA	
TOV Withstand 5s	(L-N) U_T	337V	403V
TOV 120min	(L-N) U_T	442V	528V
	mode	Safe Fail	Safe Fail
TOV Withstand 200ms	(N-PE) U_T	1200V	
Number of Ports		1	

UL Electrical

Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) MCOV	300V / 305V	350V / 305V
Voltage Protection Rating	(L-N)/(N-PE) VPR	900V / 1000V	1200V / 1000V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20 kA / 20 kA	
Short-Circuit Current Rating (AC)	(L-N) SCCR	150 kA	200 kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%...95%	
Altitude		13123 ft [4000m]	
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)	
Mounting		35mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A	
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)	

Order Information

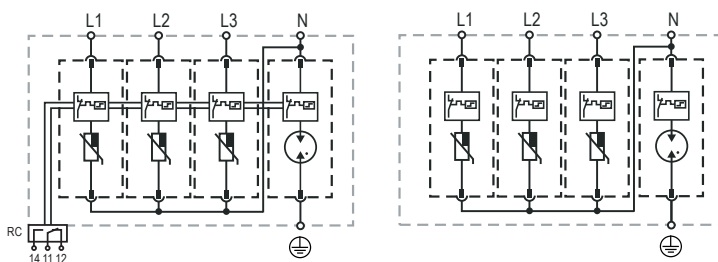
Order Code	300	350
ProTec T2-ADV-xxx-3+1	59.0256	59.0258
ProTec T2-ADV-xxx-3+1-R (with remote contacts)	59.0257	59.0259
ProTec T2-ADV-xxx-P	59.0204	59.0204
ProTube T2-ADV-40-P	59.0275	59.0275

ProTec T2-ADV 3+1

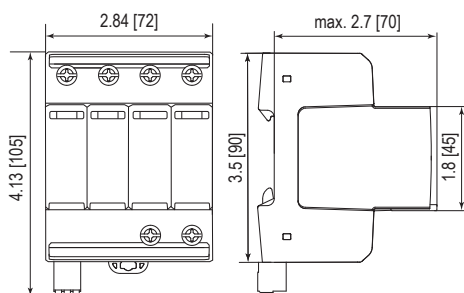
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

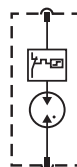
		300	350
ProTec T2-ADV-xxx-3+1			
Single Unit Weight	pounds	1.060	1.093
	grams	481	496
ProTec T2-ADV-xxx-3+1-R			
Single Unit Weight	pounds	1.080	1.113
	grams	490	505
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]	
Minimum Order Quantity		4 Units	

Plug Internal Configuration

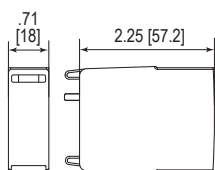
ProTec T2-ADV-xxx-P



ProTube T2-ADV-40-P



Dimensions & Packaging



Dimensions & Packaging

		300	350
ProTec T2-ADV-xxx-P			
Single Unit Weight	pounds	.143	.154
	grams	65	70
ProTube T2-ADV-40-P			40
Single Unit Weight	pounds	.093	
	grams	42	
Single Unit DIN 43880 Dimension		1 TE	
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]	
Minimum Order Quantity		24 Units	

Pluggable Single-Pole SPD
SafeTec T2 1+0
 Class II • Type 2 • Type 1CA



Location of Use: Sub-distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N
 Surge Ratings: I_n = up to 20 kA (8/20 μ s)
 I_{max} = up to 50 kA (8/20 μ s)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Safety: Patented Current Limiting
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

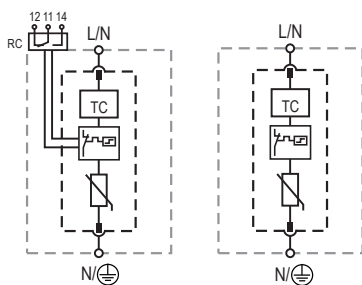
SafeTec T2-xxx-1+0(-R)	75	150	300	350	480	550	750	880	
IEC Electrical									
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	400V	600V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	550V	750V	880V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	35 kA	35 kA
Voltage Protection Level	U_p	800V	1250V	1650V	1750V	2300V	2500V	3500V	3600V
Response Time	t_A	< 25 ns							
Back-Up Fuse (max)		315 A/250 A gG							
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA/50 kA							
TOV Withstand 120min	U_T	150V	255V	442V	529V	762V	918V	1200V	1250V
Number of Ports		1							
UL Electrical									
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	550V	750V	880V
Voltage Protection Rating	VPR	600V	700V	1200V	1200V	1500V	1800V	2500V	2500V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	85 kA	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Mechanical & Environmental									
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]							
Permissible Operating Humidity	RH	5%...95%							
Altitude (max)		13123 ft [4000 m]							
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]							
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)							
Mounting		35 mm DIN Rail, EN 60715							
Degree of Protection		IP 20 (built-in)							
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0							
Thermal Protection		Yes							
Operating State / Fault Indication		Green Flag / Not Green Flag							
Remote Contacts (RC)		Optional							
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A							
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)							
Order Information									
Order Code		75	150	300	350	480	550	750	880
SafeTec T2-xxx-1+0		59.0132	59.0134	59.0136	59.0138	59.0140	59.0142	59.0144	59.0146
SafeTec T2-xxx-1+0-R (with remote contacts)		59.0133	59.0135	59.0137	59.0139	59.0141	59.0143	59.0145	59.0147
SafeTec T2-xxx-P		59.0125	59.0126	59.0127	59.0128	59.0129	59.0299	59.0130	59.0131

SafeTec T2 1+0

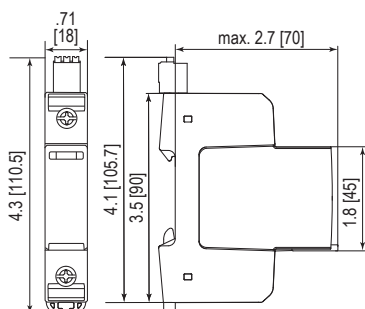
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional
- TC Thermal Control Function



Dimensions & Packaging

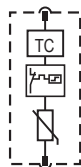


Dimensions & Packaging

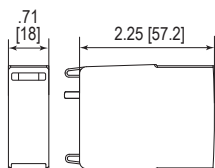
		75	150	300	350	480	550	750	880
Single Unit Weight	pounds	.272	.280	.292	.309	.316	.327	.349	.349
	grams	123	127	132	140	143	148	158	158
		75	150	300	350	480	550	750	880
Single Unit Weight	pounds	.287	.296	.307	.325	.331	.342	.364	.364
	grams	130	134	139	147	150	155	165	165
Single Unit DIN 43880 Dimension		1 TE							
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]							
Minimum Order Quantity		12 Units							

Plug Internal Configuration

SafeTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	480	550	750	880
Single Unit Weight	pounds	.124	.133	.144	.161	.168	.179	.201	.201
	grams	56	60	65	73	76	81	91	91
Single Unit DIN 43880 Dimension		1 TE							
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]							
Minimum Order Quantity		24 Units							

Pluggable Multi-Pole SPD

SafeTec T2 2+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: I_n = up to 20 kA (8/20 μ s)
 I_{max} = up to 50 kA (8/20 μ s)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Safety: Patented Current Limiting
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

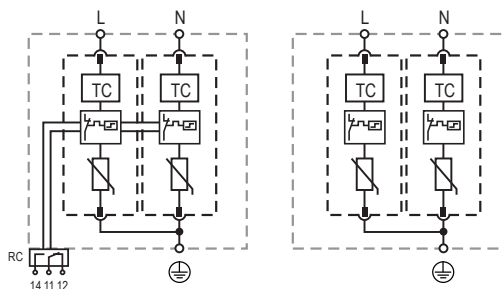
SafeTec T2-xxx-2+0(-R)		75	150	300	350	480	550	750	880
IEC Electrical									
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V	400V	400V	600V	600V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	300V	350V	480V	550V	750V	880V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	35 kA	35 kA
Voltage Protection Level	U_p	800V	1250V	1650V	1750V	2300V	2500V	3500V	3600V
Response Time	t_A	< 25 ns							
Back-Up Fuse (max)		315 A/250 A gG							
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA/50 kA							
TOV Withstand 120min	U_T	150V	255V	442V	529V	762V	918V	1200V	1250V
Number of Ports		1							
UL Electrical									
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	550V	750V	880V
Voltage Protection Rating	VPR	600V	700V	1200V	1200V	1500V	1800V	2500V	2500V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	85 kA	200 kA	150 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Mechanical & Environmental									
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]							
Permissible Operating Humidity	RH	5%...95%							
Altitude (max)		13123 ft [4000 m]							
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]							
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)							
Mounting		35 mm DIN Rail, EN 60715							
Degree of Protection		IP 20 (built-in)							
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0							
Thermal Protection		Yes							
Operating State / Fault Indication		Green Flag / Not Green Flag							
Remote Contacts (RC)		Optional							
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5 A, 24V/0.5 A, 12V/0.5 A							
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)							
Order Information									
Order Code		75	150	300	350	480	550	750	880
SafeTec T2-xxx-2+0		59.0345	59.0148	59.0150	59.0152	59.0154	59.0156	59.0158	59.0160
SafeTec T2-xxx-2+0-R (with remote contacts)		59.0346	59.0149	59.0151	59.0153	59.0155	59.0157	59.0159	59.0161
SafeTec T2-xxx-P		59.0125	59.0126	59.0127	59.0128	59.0129	59.0299	59.0130	59.0131

SafeTec T2 2+0

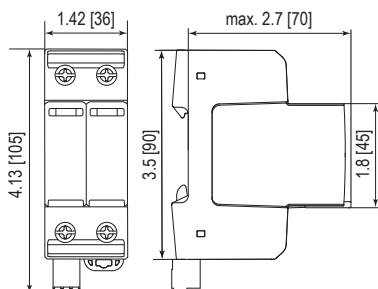
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional
- TC Thermal Control Function



Dimensions & Packaging

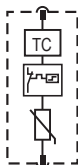


Dimensions & Packaging

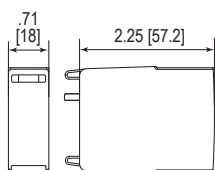
		75	150	300	350	480	550	750	880
SafeTec T2-xxx-2+0	Single Unit Weight	pounds .534	.552	.574	.609	.622	.644	.688	.688
		grams 242	250	260	276	282	292	312	312
SafeTec T2-xxx-2+0-R	Single Unit Weight	pounds .565	.583	.605	.640	.653	.675	.719	.719
		grams 256	264	274	290	296	306	326	326
Single Unit DIN 43880 Dimension		2 TE							
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]							
Minimum Order Quantity		7 Units							

Plug Internal Configuration

SafeTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350	480	550	750	880
SafeTec T2-xxx-P	Single Unit Weight	pounds .124	.133	.144	.161	.168	.179	.201	.201
		grams 56	60	65	73	76	81	91	91
Single Unit DIN 43880 Dimension		1 TE							
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]							
Minimum Order Quantity		24 Units							

Pluggable Multi-Pole SPD

SafeTec T2 3+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-distribution Boards
 Network Systems: TN-C
 Mode of Protection: L-PEN
 Surge Ratings: $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 $I_{max} = \text{up to } 50 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Safety: Patented Current Limiting
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

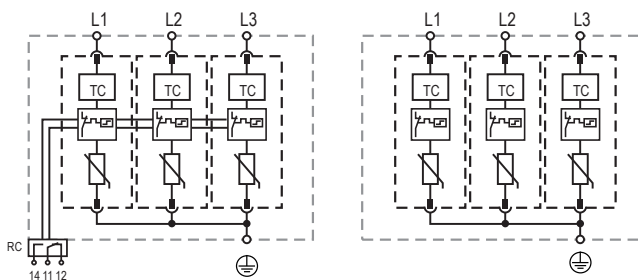
SafeTec T2-xxx-3+0(-R)		150	300	350	480	550	750	880
IEC Electrical								
Nominal AC Voltage (50/60Hz)	U_o / U_n	120V	240V	277V	400V	400V	600V	600V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V	550V	750V	880V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA	50kA	50kA	50kA	50kA	35kA	35kA
Voltage Protection Level	U_p	1250V	1650V	1750V	2300V	2500V	3500V	3600V
Response Time	t_A	< 25 ns						
Back-Up Fuse (max)		315 A / 250 A gG						
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA / 50 kA						
TOV Withstand 120min	U_T	255V	442V	529V	762V	918V	1200V	1250V
Number of Ports		1						
UL Electrical								
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V	550V	750V	880V
Voltage Protection Rating	VPR	700V	1200V	1200V	1500V	1800V	2500V	2500V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	200kA	150kA	200kA	200kA	200kA	200kA	200kA
Mechanical & Environmental								
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]						
Permissible Operating Humidity	RH	5%...95%						
Altitude (max)		13123 ft [4000m]						
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5Nm]						
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)						
Mounting		35 mm DIN Rail, EN 60715						
Degree of Protection		IP 20 (built-in)						
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0						
Thermal Protection		Yes						
Operating State / Fault Indication		Green Flag / Not Green Flag						
Remote Contacts (RC)		Optional						
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5 A						
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)						
Order Information								
Order Code		150	300	350	480	550	750	880
SafeTec T2-xxx-3+0		59.0162	59.0164	59.0166	59.0168	59.0170	59.0172	59.0174
SafeTec T2-xxx-3+0-R (with remote contacts)		59.0163	59.0165	59.0167	59.0169	59.0171	59.0173	59.0175
SafeTec T2-xxx-P		59.0126	59.0127	59.0128	59.0129	59.0299	59.0130	59.0131

SafeTec T2 3+0

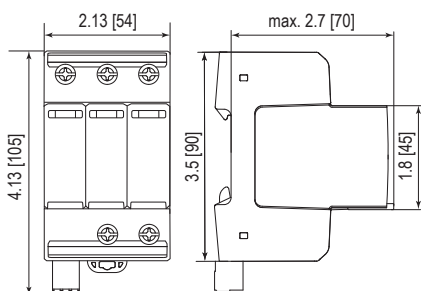
Internal Configuration

Legend

- L Line
- ⊕ Protective Earth
- RC Remote Contacts Optional
- TC Thermal Control Function



Dimensions & Packaging

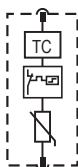


Dimensions & Packaging

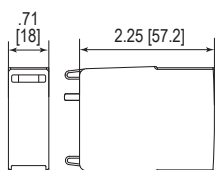
		150	300	350	480	550	750	880
Single Unit Weight	pounds	.801	.834	.887	.907	.940	1.006	1.006
	grams	363	378	402	411	426	456	456
		150	300	350	480	550	750	880
Single Unit Weight	pounds	.823	.856	.909	.929	.962	1.028	1.028
	grams	373	388	412	421	436	466	466
Single Unit DIN 43880 Dimension		3 TE						
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]						
Minimum Order Quantity		5 Units						

Plug Internal Configuration

SafeTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480	550	750	880
Single Unit Weight	pounds	.133	.144	.161	.168	.179	.201	.201
	grams	60	65	73	76	81	91	91
Single Unit DIN 43880 Dimension		1 TE						
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]						
Minimum Order Quantity		24 Units						

Pluggable Multi-Pole SPD

SafeTec T2 4+0

Class II • Type 2 • Type 1CA



Location of Use: Sub-distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 $I_{max} = 50 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Safety: Patented Current Limiting
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

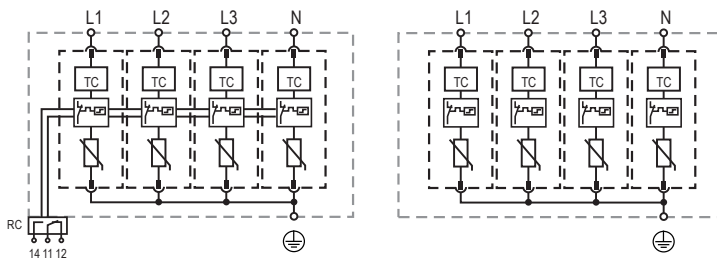
SafeTec T2-xxx-4+0(-R)	150	300	350	480	550	
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o/U_n	120 V	240 V	277 V	400 V	400 V
Maximum Continuous Operating Voltage (AC)	U_c	150 V	300 V	350 V	480 V	550 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA
Voltage Protection Level	U_p	1250 V	1650 V	1750 V	2300 V	2500 V
Response Time	t_A	< 25 ns				
Back-Up Fuse (max)		315 A/250 A gG				
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA/50 kA				
TOV Withstand 120min	U_T	255 V	442 V	529 V	762 V	918 V
Number of Ports		1				
UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	150 V	300 V	350 V	480 V	550 V
Voltage Protection Rating	VPR	700 V	1200 V	1200 V	1500 V	1800 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	200 kA	200 kA	200 kA
Mechanical & Environmental						
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]				
Permissible Operating Humidity	RH	5%...95%				
Altitude (max)		13123 ft [4000 m]				
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green Flag / Not Green Flag				
Remote Contacts (RC)		Optional				
RC Switching Capacity		AC: 250V/1A, 125V/1 A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)				
Order Information						
Order Code		150	300	350	480	550
SafeTec T2-xxx-4+0		59.0176	59.0178	59.0180	59.0182	59.0184
SafeTec T2-xxx-4+0-R (with remote contacts)		59.0177	59.0179	59.0181	59.0183	59.0185
SafeTec T2-xxx-P		59.0126	59.0127	59.0128	59.0129	59.0299

SafeTec T2 4+0

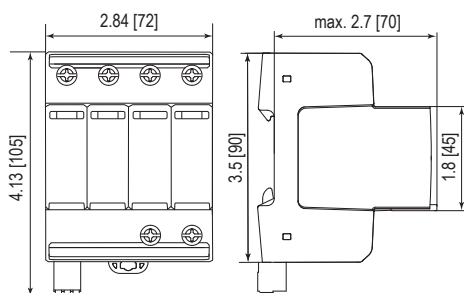
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional
- TC Thermal Control Function



Dimensions & Packaging

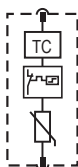


Dimensions & Packaging

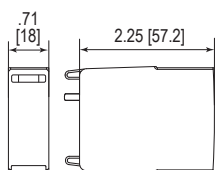
		150	300	350	480	550
Single Unit Weight	pounds	1.085	1.129	1.200	1.226	1.270
	grams	492	512	544	556	576
Single Unit Weight	pounds	1.105	1.149	1.220	1.246	1.290
	grams	501	521	553	565	585
Single Unit DIN 43880 Dimension		4 TE				
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity		4 Units				

Plug Internal Configuration

SafeTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480	550
Single Unit Weight	pounds	.133	.144	.161	.168	.179
	grams	60	65	73	76	81
Single Unit DIN 43880 Dimension		1 TE				
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Minimum Order Quantity		24 Units				

Pluggable Multi-Pole SPD

SafeTec T2 1+1

Class II • Type 2 • Type 1CA



Location of Use: Sub-distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA}/40\text{ kA}$ (8/20 μs)
 $I_{max} = 50\text{ kA}/65\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Safety: Patented Current Limiting
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

SafeTec T2-xxx-1+1(-R)

		75	150	300	350
IEC Electrical					
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	240V	277V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	75V	150V	300V	350V
	(N-PE) U_c	305V	305V	305V	305V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20kA/40kA	20kA/40kA	20kA/40kA	20kA/40kA
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}	50kA/65kA	50kA/65kA	50kA/65kA	50kA/65kA
Voltage Protection Level	(L-N)/(N-PE) U_p	800V/1500V	1250V/1500V	1650V/1500V	1750V/1500V
Follow Current Interrupt Rating	(N-PE) I_{fi}	100A _{RMS}			
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns			
Back-Up Fuse (max)		315 A/250 A gG			
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25 kA/50 kA			
TOV Withstand 120min	(L-N) U_T	150V	255V	442V	529V
TOV Withstand 200ms	(N-PE) U_T	1200V			
Number of Ports		1			

UL Electrical

Maximum Continuous Operating Voltage (AC)	(L-N)/(N-PE) MCOV	75V/305V	150V/305V	300V/305V	350V/305V
Voltage Protection Rating	(L-N)/(N-PE) VPR	600V/1000V	700V/1000V	1200V/1000V	1200V/1000V
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n	20kA/20kA			
Short-Circuit Current Rating (AC)	(L-N) SCCR	85kA	200kA	150kA	200kA

Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Operating Humidity	RH	5%...95%			
Altitude (max)		13123 ft [4000m]			
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]			
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)			
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)			
Mounting		35 mm DIN Rail, EN 60715			
Degree of Protection		IP 20 (built-in)			
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0			
Thermal Protection		Yes			
Operating State / Fault Indication		Green Flag / Not Green Flag			
Remote Contacts (RC)		Optional			
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A			
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)			

Order Information

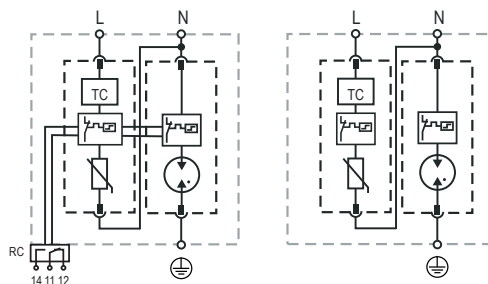
Order Code	75	150	300	350
SafeTec T2-xxx-1+1	59.0186	59.0188	59.0190	59.0192
SafeTec T2-xxx-1+1-R (with remote contacts)	59.0187	59.0189	59.0191	59.0193
SafeTec T2-xxx-P	59.0125	59.0126	59.0127	59.0128
SafeTube T2-40-P	59.0274	59.0274	59.0274	59.0274

SafeTec T2 1+1

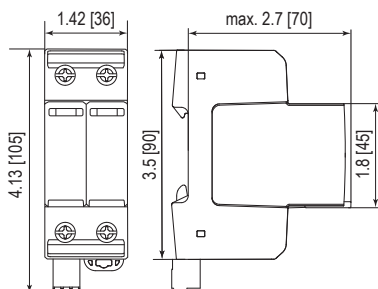
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional
- TC Thermal Control Function



Dimensions & Packaging

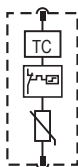


Dimensions & Packaging

		75	150	300	350
SafeTec T2-xxx-1+1	Single Unit Weight	pounds .505	.514	.525	.543
		grams 229	233	238	246
SafeTec T2-xxx-1+1-R	Single Unit Weight	pounds .519	.527	.538	.556
		grams 235	239	244	252
Single Unit DIN 43880 Dimension		2 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		7 Units			

Plug Internal Configuration

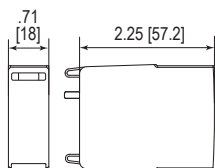
SafeTec T2-xxx-P



SafeTube T2-40-P



Dimensions & Packaging



Dimensions & Packaging

		75	150	300	350
SafeTec T2-xxx-P	Single Unit Weight	pounds .124	.133	.144	.161
		grams 56	60	65	73
SafeTube T2-40-P	Single Unit Weight	pounds .093			
		grams 42			
Single Unit DIN 43880 Dimension		1 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		24 Units			

Pluggable Multi-Pole SPD

SafeTec T2 3+1

Class II • Type 2 • Type 1CA



Location of Use: Sub-distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $I_n = 20\text{ kA}/40\text{ kA}$ (8/20 μs)
 $I_{max} = 50\text{ kA}/65\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: High Energy MOV and GDT
 Safety: Patented Current Limiting
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

SafeTec T2-xxx-3+1(-R)

		300	350
IEC Electrical			
Nominal AC Voltage (50/60Hz)	U_o/U_n	240 V	277 V
Maximum Continuous Operating Voltage (AC)	(L - N) U_c	300 V	350 V
	(N - PE) U_c	305 V	305 V
Nominal Discharge Current (8/20 μs)	(L - N)/(N - PE) I_n	20 kA/40 kA	20 kA/40 kA
Maximum Discharge Current (8/20 μs)	(L - N)/(N - PE) I_{max}	50 kA/65 kA	50 kA/65 kA
Voltage Protection Level	(L - N)/(N - PE) U_p	1650 V/1500 V	1750 V/1500 V
Follow Current Interrupt Rating	(N - PE) I_{fi}	100 A _{RMS}	
Response Time	(L - N)/(N - PE) t_A	< 25 ns / < 100 ns	
Back-Up Fuse (max)		315 A/250 A gG	
Short-Circuit Current Rating (AC)	(L - N) I_{SCCR}	25 kA/50 kA	
TOV Withstand 120min	(L - N) U_T	442 V	529 V
TOV Withstand 200ms	(N - PE) U_T	1200 V	
Number of Ports		1	

UL Electrical

Maximum Continuous Operating Voltage (AC)	(L - N)/(N - PE) MCOV	300 V/305 V	350 V/305 V
Voltage Protection Rating	(L - N)/(N - PE) VPR	1200 V/1000 V	1200 V/1000 V
Nominal Discharge Current (8/20 μs)	(L - N)/(N - PE) I_n	20 kA/20 kA	
Short-Circuit Current Rating (AC)	(L - N) SCCR	150 kA	200 kA

Mechanical

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%...95%	
Altitude		13123 ft [4000 m]	
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A	
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)	

Order Information

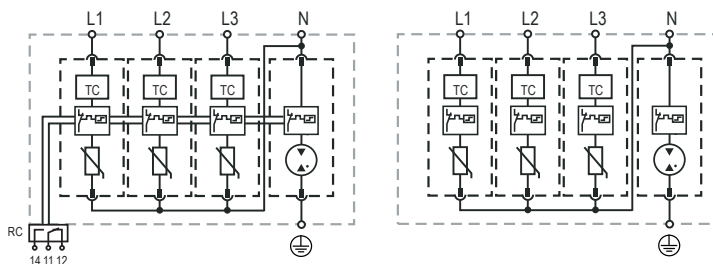
Order Code	300	350
SafeTec T2-xxx-3+1	59.0198	59.0200
SafeTec T2-xxx-3+1-R (with remote contacts)	59.0199	59.0201
SafeTec T2-xxx-P	59.0127	59.0128
SafeTube T2-40-P	59.0274	59.0274

SafeTec T2 3+1

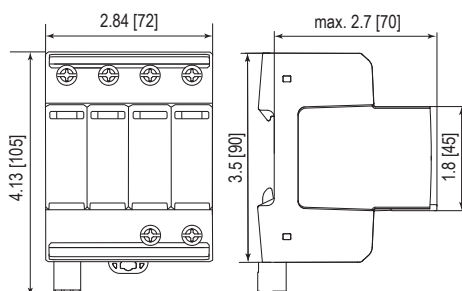
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional
- TC Thermal Control Function



Dimensions & Packaging

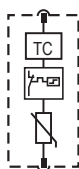


Dimensions & Packaging

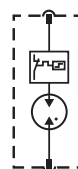
		300	350
SafeTec T2-xxx-3+1	Single Unit Weight	pounds .792	.810
		grams 359	367
SafeTec T2-xxx-3+1-R	Single Unit Weight	pounds .812	.829
		grams 368	376
Single Unit DIN 43880 Dimension		4 TE	
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]	
Minimum Order Quantity		4 Units	

Plug Internal Configuration

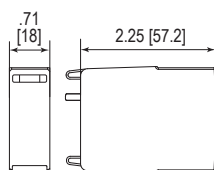
SafeTec T2-xxx-P



SafeTube T2-40-P



Dimensions & Packaging



Dimensions & Packaging

		300	350
SafeTec T2-xxx-P	Single Unit Weight	pounds .144	.161
		grams 65	73
SafeTube T2-40-P	Single Unit Weight	pounds .093	.42
		grams 42	
Single Unit DIN 43880 Dimension		1 TE	
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]	
Minimum Order Quantity		24 Units	

Pluggable Single-Pole SPD
SafeTube T2 40 0+1
 Class II • Type 2 • Type 1CA



Location of Use: Sub-Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: N-PE
 Surge Ratings: $I_n = 20\text{ kA}$ (8/20 μs)
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA
 Protective Elements: GDT with Thermal Disconnecter
 Housing: Pluggable Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012
 UL 1449 4th Edition

Technical Data

SafeTube T2-xx 0+1(-R)

40

IEC Electrical

Nominal AC Voltage (50/60Hz)	U_o/U_n	0V
Maximum Continuous Operating Voltage	U_c	305V
Nominal Discharge Current (8/20 μs)	I_n	40 kA
Maximum Discharge Current (8/20 μs)	I_{max}	65 kA
Voltage Protection Level	U_p	1500V
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V
Number of Ports		1

UL Electrical

Maximum Continuous Operating Voltage (AC)	MCOV	305V
Voltage Protection Rating(N)	VPR	1000V
Nominal Discharge Current (8/20 μs)	I_n	20 kA

Mechanical

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude		13123 ft [4000 m]
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)

Order Information

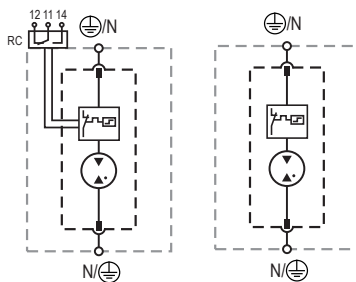
Order Code	40
SafeTube T2-xxx-0+1	59.0281
SafeTube T2-xxx-0+1-R (with remote contacts)	59.0337
SafeTube T2-40-P	59.0274

SafeTube T2 0+1

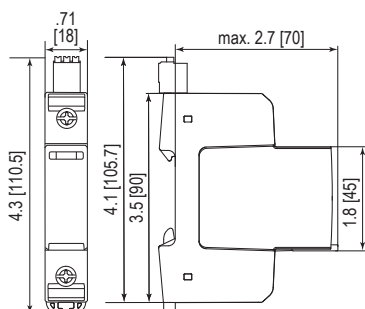
Internal Configuration

Legend

- L Line
- N Neutral
- ⊕ Protective Earth
- RC Remote Contacts Optional
- TC Thermal Control Function



Dimensions & Packaging

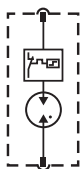


Dimensions & Packaging

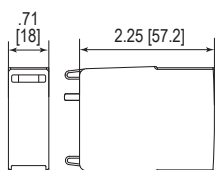
SafeTube T2-xxx-0+1		40
Single Unit Weight	pounds	.255-
	grams	116
SafeTube T2-xxx-0+1-R		40
Single Unit Weight	pounds	.275
	grams	125
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		12 Units

Plug Internal Configuration

SafeTube T2-xxx-P

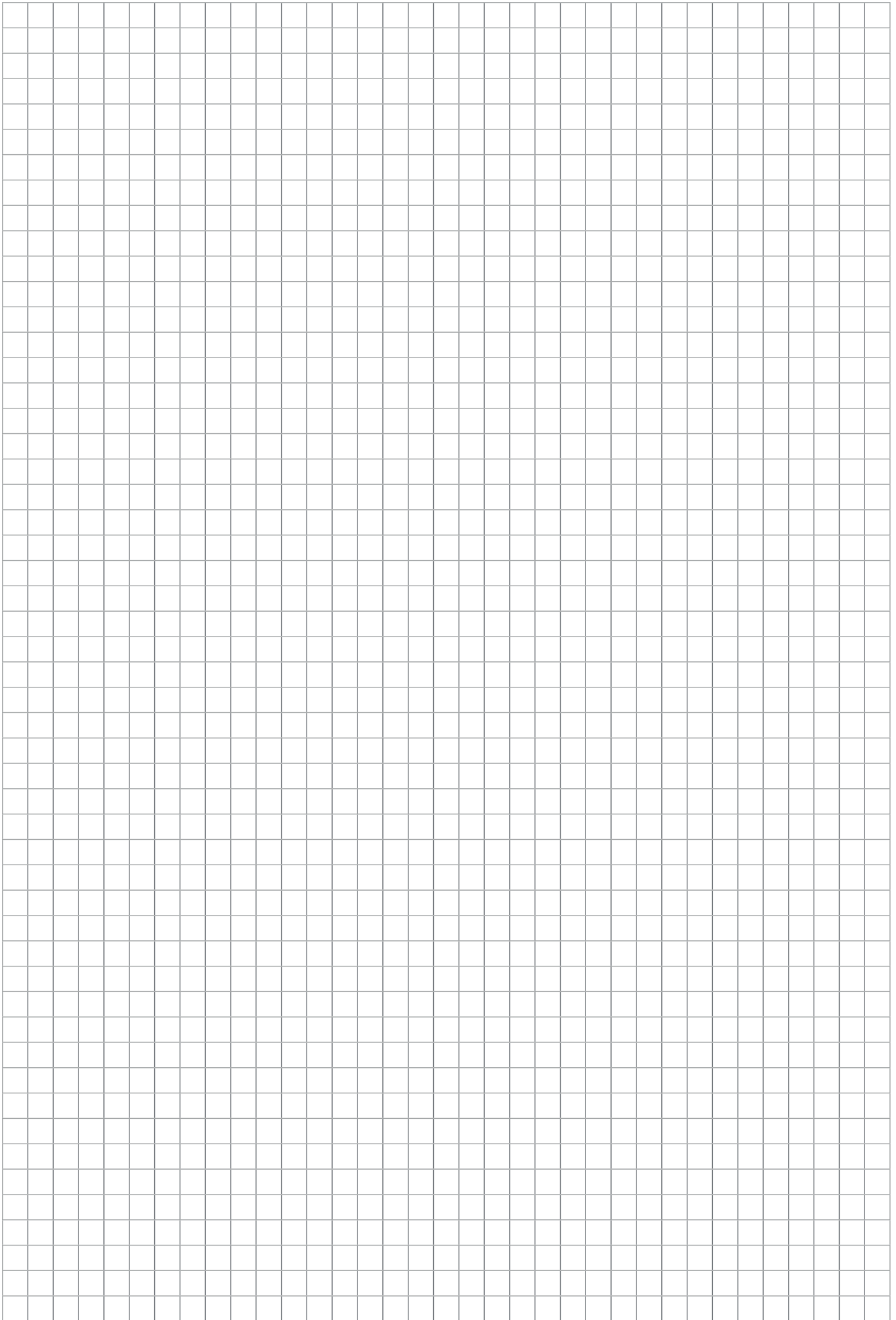


Dimensions & Packaging



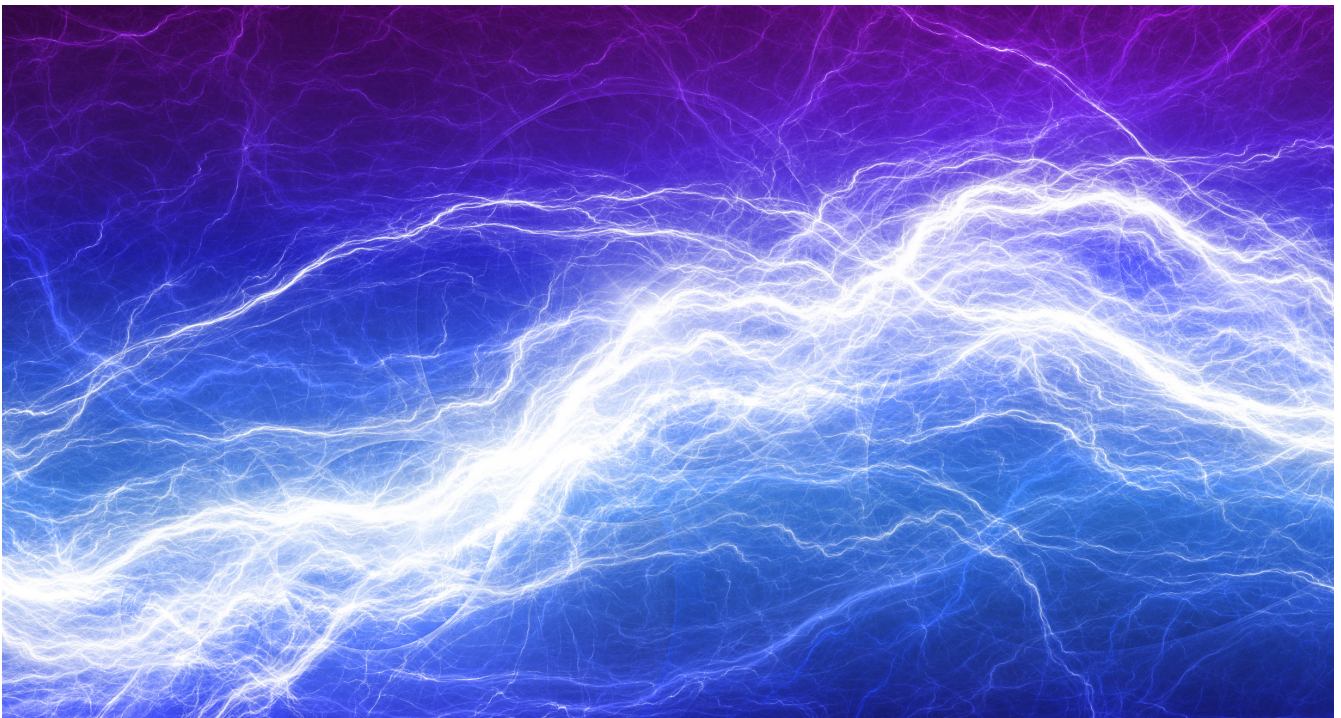
Dimensions & Packaging

SafeTube T2-40-P		40
Single Unit Weight	pounds	.093
	grams	42
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity		24 Units



Pluggable Multi-pole Surge Protective Devices (SPDs) for Photovoltaic Systems (DC)

- ProTec T1-PV
- ProTec T2-PV



Raycap provides Type 1 (Class I) and Type 2 (Class II) surge protection products for Photovoltaic (PV) applications. AC surge protection should be installed to prevent damage to the PV modules during electrical surge events. Additionally protection is required at the junction box to protect the string monitoring units from the DC power supply. In addition, Raycap's RayDat signal protection modules are used to protect the sensitive electronics equipment from surges on the data lines and lightning monitoring solutions to alert PV park operators in the event of a lightning strike on or near the facility. See our Signal Protection catalog and ProGRID brochure for more information on these products.

Pluggable Multi-Pole SPD for Photovoltaic Systems

ProTec T1-PV 3+0

Type 1 • Type 2 • Type 1CA



Location of Use: String box, Inverter
 Mode of Protection: (+)-PE, (-)-PE, (+)-(-)
 Surge Ratings: I_{Total} = up to 12.5kA (10/350 μ s)
 I_{Total} = up to 50kA (8/20 μ s)
 EN/UL Category: Type 1+2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: EN 50539-11:2013+A1:2014
 UL 1449 4th Edition

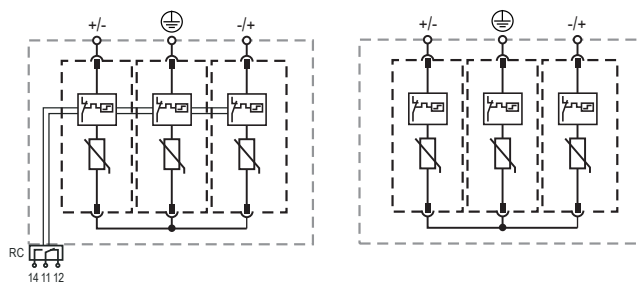
ProTec T1-xxxxPV-3+0(-R)		1100	1500
IEC Electrical			
Maximum Continuous Operating DC Voltage	U_{CPV}	1100 V	1500 V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA	20 kA
Impulse Discharge Current (10/350 μ s)	I_{imp}	6.25kA	5kA
Specific Energy	W/R	9.77kJ/ Ω	6.25kJ/ Ω
Charge	Q	3.125As	2.5As
Total Discharge Current (10/350 μ s)	I_{Total}	12.5kA	10kA
Total Discharge Current (8/20 μ s)	I_{Total}	50kA	40kA
Maximum Discharge Current (8/20 μ s)	I_{max}	40kA	30kA
Voltage Protection Level	(+)-PE, (-)-PE U_p	3800 V	5000 V
	(+)-(-) U_p	3800 V	5000 V
Response Time	t_A		< 25 ns
Short-Circuit Current Rating	I_{SCPV}		11 kA
Number of Ports			1
UL Electrical			
Maximum Permitted DC Voltage	V_{pVdc}	1100V	1500V
Voltage Protection Rating	(+)-PE, (-)-PE VPR	2500V	4000V
	(+)-(-) VPR	2500V	4000V
Nominal Discharge Current (8/20 μ s)	I_n		20 kA
Short-Circuit Current Rating	SCCR	50 kA	65 kA
Mechanical & Environmental			
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%...95%	
Altitude (max)		13123 ft [4000 m]	
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree Of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A	
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)	
Order Information			
Order Code		1100	1500
ProTec T1-xxxxPV-3+0		59.0285	59.0289
ProTec T1-xxxxPV-3+0-R (with remote contacts)		59.0286	59.0290
ProTec T1-550PV-P		59.0283	-
ProTec T1-550PV-M-P		59.0284	-
ProTec T1-750PV-P		-	59.0287
ProTec T1-750PV-M-P		-	59.0288

ProTec T1-PV-3+0

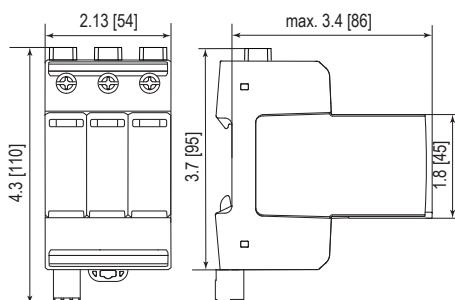
Internal Configuration

Legend

- ⊕ Ground
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

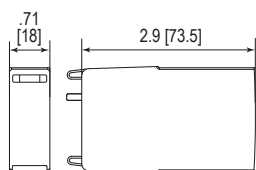
		1100	1500
ProTec T1-xxxxPV-3+0			
Single Unit Weight	pounds	.999	1.076
	grams	453	488
ProTec T1-xxxxPV-3+0-R			
Single Unit Weight	pounds	1.019	1.096
	grams	462	497
Single Unit DIN 43880 Dimension		3 TE	
Packaging Dimensions (H x W x L)		4.30 x 3.03 x 4.48" [109 x 77 x 114mm]	
Minimum Order Quantity		5 Units	

Plug Internal Configuration

ProTec T1-xxxPV-P
ProTec T1-xxxPV-M-P



Dimensions & Packaging



Dimensions & Packaging

		550	750
ProTec T1-xxxPV-P			
Single Unit Weight	pounds	.280	.287
	grams	127	130
ProTec T1-xxxPV-M-P			
Single Unit Weight	pounds	.157	.192
	grams	71	87
Single Unit DIN 43880 Dimension		1 TE	
Packaging Dimensions (H x W x L)		4.30 x 3.03 x 4.48" [109 x 77 x 114mm]	
Minimum Order Quantity		28 Units	

Pluggable Multi-Pole SPD for Photovoltaic Systems

ProTec T2-PV 3+0

Type 2 • Type 1CA



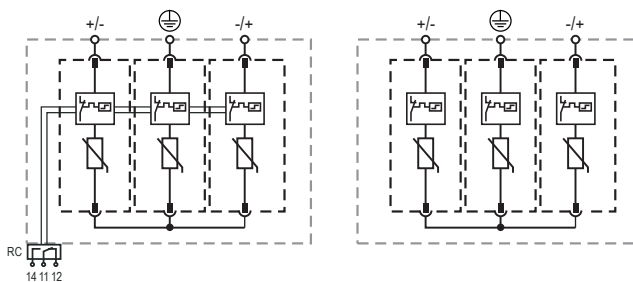
Location of Use: String box, Inverter
 Mode of Protection: (+)-PE, (-)-PE, (+)-(-)
 Surge Ratings: $I_n = 20 \text{ kA}$ (8/20 μs)
 $I_{\text{Total}} = \text{up to } 50 \text{ kA}$ (8/20 μs)
 EN/UL Category: Type 2 / Type 1CA
 Protective Elements: High Energy MOV
 Housing: Pluggable Design
 Compliance: EN 50539-11:2013+A1:2014
 UL 1449 4th Edition

Technical Data

ProTec T2-xxxxPV-3+0(-R)		1100	1500
IEC Electrical			
Maximum Continuous Operating DC Voltage	U_{CPV}	1100V	1500V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA	30 kA
Total Discharge Current	I_{Total}	50 kA	40 kA
Voltage Protection Level	U_p	3800V	5000V
Response Time	t_A		< 25 ns
Short-Circuit Current Rating	I_{SCPV}		11 kA
Number of Ports			1
UL Electrical			
Maximum Permitted DC Voltage	V_{pVdc}	1100V	1500V
Voltage Protection Rating	VPR	2500V	4000V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	
Short-Circuit Current Rating	SCCR	50 kA	65 kA
Mechanical & Environmental			
Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]	
Permissible Operating Humidity	RH	5%...95%	
Altitude (max)		13123 ft [4000 m]	
Terminal Screw Torque	M_{max}	39.9 lbf-in [4.5 Nm]	
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20 (built-in)	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Operating State / Fault Indication		Green Flag / Not Green Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/1A, 125V/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A	
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)	
Order Information			
Order Code		1100	1500
ProTec T2-xxxxPV-3+0		59.0292	59.0295
ProTec T2-xxxxPV-3+0-R (with remote contacts)		59.0293	59.0296
ProTec T2-550PV-P		59.0291	-
ProTec T2-750PV-P		-	59.0294

ProTec T2-PV-3+0

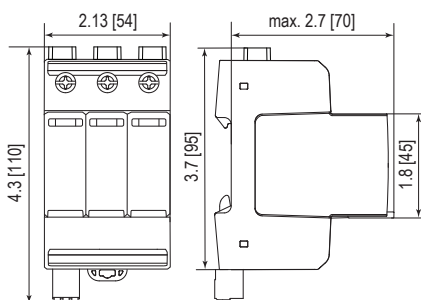
Internal Configuration



Legend

- ⊕ Ground
- RC Remote Contacts Optional

Dimensions & Packaging

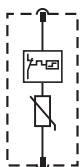


Dimensions & Packaging

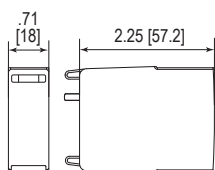
		1100	1500
ProTec T2-xxxxPV-3+0	Single Unit Weight	pounds .874	.979
		grams 396	444
ProTec T2-xxxxPV-3+0-R	Single Unit Weight	pounds .896	1.001
		grams 406	454
Single Unit DIN 43880 Dimension			3 TE
Packaging Dimensions (HxWxL)			4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity			5 Units

Plug Internal Configuration

ProTec T2-XXXPV-P

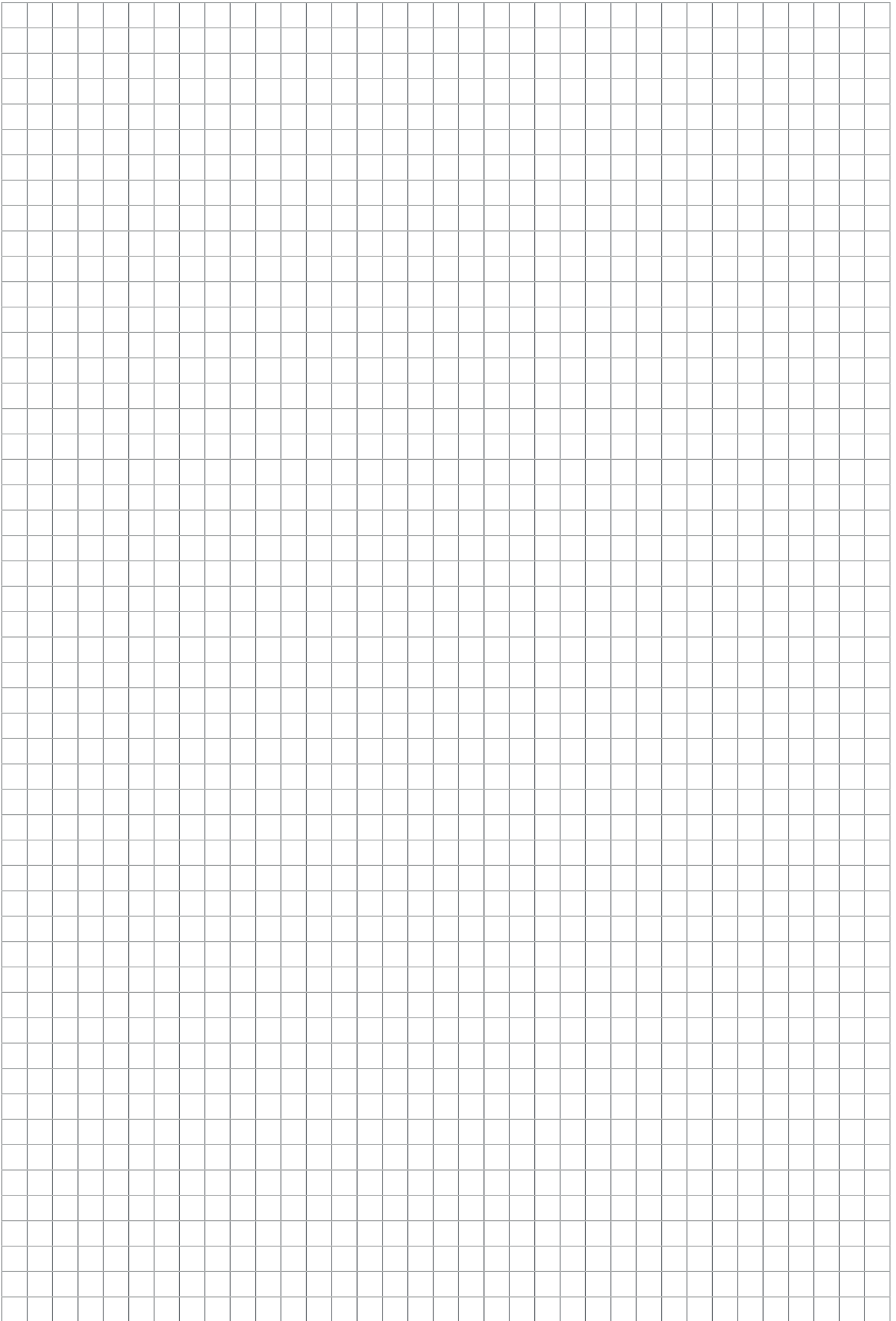


Dimensions & Packaging



Dimensions & Packaging

		550	750
ProTec T2-xxxPV-P	Single Unit Weight	pounds .157	.192
		grams 71	87
Single Unit DIN 43880 Dimension			1 TE
Packaging Dimensions (HxWxL)			4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Minimum Order Quantity			24 Units



Compact & Pluggable Single Pole & Multi-pole Surge Protective Devices (SPDs)



ProTec DMDR, ProTec DMG & DMGR
ProLed 275
MPE Mini & MPE Mini LED

Class I and Class II SPDs are not enough to protect sensitive electronic elements. Overvoltage waves are slowly increasing at greater frequency, reoccurring and threatening devices. Incidence of low value surges are still too high for electronic elements and are common in the object itself, often caused by activation switching of major appliances, inductive devices and motors, or industrial system operation failures. SPDs in this classification are intended to protect sensitive electronic installations in Zones 2-3 per IEC 62305.

The ProTec DMG and DMGR modular series consist of a high performance varistors for each pole and a high energy encapsulated gas discharge tube (GDT), with separate thermal disconnect mechanisms.

The plug-in module and base design facilitates replacement of a failed module *in situ* without the need to remove system wiring.



ProLed 275 series is for advanced three phase devices, equipment and systems up to 16A/230VAC per phase.

MPE Mini series is designed for installation into electrical installation systems, cable ducts and wiring sockets.

DC Modular Multi-pole SPD

ProTec DMDR 20 Series

Class III • Type 3



Location of Use: Sub-distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE, L-N
 Surge Ratings: U_{oc}/I_{cw} = up to 6kV/3kA
 I_{max} = up to 4kA (8/20 μ s)
 IEC/EN Category: Class III / Type 3
 Protective Elements: High Energy MOV and GDT
 Housing: Modular Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec DMDR 20/xxx

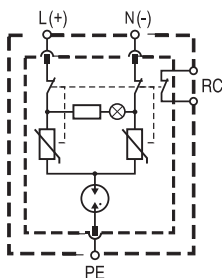
		24	48	60	120	
Electrical						
Nominal AC/DC Voltage	U_o	17V/24V	34V/48V	43V/60V	85V/120V	
Maximum Continuous Operating Voltage (AC/DC)	U_c	24V/34V	48V/60V	60V/75V	120V/150V	
Open Circuit Voltage of the Combination Wave Generator (1.2/50 μ s)	U_{oc}	2.4kV	2.4kV	6kV	6kV	
Short Circuit Current of the Combination Wave Generator (8/20 μ s)	I_{cw}	1.2kA	1.2kA	3kA	3kA	
Maximum Discharge Current (8/20 μ s)	I_{max}	2kA	2kA	4kA	4kA	
Voltage Protection Level	(L-N)	U_p	< 250V	< 500V	< 600V	< 1100V
	(L-PE)/(N-PE)		< 700V	< 800V	< 850V	< 1200V
Response Time of Overvoltage Protection	(L-N)	t_A		< 25 ns		
	(L-PE)/(N-PE)			< 100 ns		
Back-Up Fuse (if mains > 32A)				32 A gG		
Short-Circuit Current Rating (AC)	I_{SCCR}			2kA		
TOV Withstand 5s (AC)	U_T	115V	148V	163V	225V	
Number of Ports				1		
Mechanical & Environmental						
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]				
Permissible Humidity	RH	5%...95%				
Terminal Screw Torque	M_{max}	4.5 lbf-in [0.5Nm]				
Conductor Cross Section		10 AWG (Solid, Stranded) / 12 AWG (Flexible)				
		6 mm ² (Solid, Stranded) / 4 mm ² (Flexible)				
Mounting		35mm DIN Rail, EN 60715				
Degree Of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating Status Indication		Green LED				
Order Information						
Order Code		24	48	60	120	
ProTec DMDR 20/xxx		510 783	510 833	510 834	510 835	
Module ProTec DMDR 20/xxx		510 784	510 836	510 837	510 838	

ProTec DMDR 20 Series

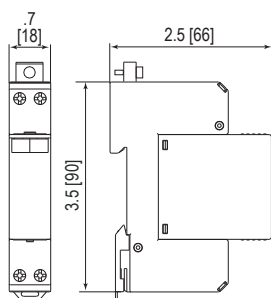
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

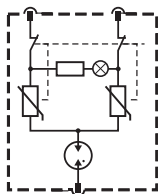


Dimensions & Packaging

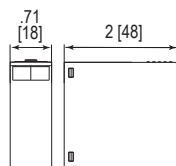
ProTec DMDR 20/xxx	24	48	60	120
Single Unit Weight pounds [grams]			.211 [96]	
Single Unit DIN 43880 Dimension			1 TE	
Packaging Dimensions (H x W x L)		4.2 x 3 x .9"	[109 x 77 x 24 mm]	
Minimum Order Quantity			12 Units	

Module Internal Configuration

Module ProTec DMDR 20/xxx



Dimensions & Packaging



Dimensions & Packaging

Module ProTec DMDR 20/xxx	24	48	60	120
Single Unit Weight pounds [grams]			.070 [32]	
Single Unit DIN 43880 Dimension			1 TE	
Packaging Dimensions (H x W x L)		3.8 x 3 x 4.3"	[98 x 77 x 110 mm]	
Minimum Order Quantity			12 Units	

Modular Multi-pole SPD

ProTec DMG(R) 20 (2+0)

Class III • Type 3



Location of Use: Sub-distribution Boards
 Network Systems: TN-S
 Mode of Protection: L - PE, N - PE
 Surge Ratings: $U_{oc}/I_{cw} = 10\text{ kV}/5\text{ kA}$
 $I_{max} = 10\text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class III/Type 3
 Protective Elements: MOV and GDT
 Housing: Modular Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec DMG(R) 20/xxx (2+0)

320

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	U_c	320V
Open Circuit Voltage of the Combination Wave Generator (1.2/50 μs)	U_{oc}	10 kV
Short Circuit Current of Combination Wave Generator (8/20 μs)	I_{cw}	5 kA
Maximum Discharge Current (8/20 μs)	I_{max}	10 kA
Voltage Protection Level	U_p	< 1.6 kV
Response Time	t_A	< 100 ns
Back-Up Fuse (if mains > 63 A)		63 A gG
Short-Circuit Current Rating (AC)	I_{SCCR}	10 kA
TOV Withstand 5s	U_T	337V
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	(L, N) M_{max}	4.4 lbf-in [0.5 Nm]
Terminal Screw Torque	(PE) M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section	(L, N)	10 AWG (Solid, Stranded) / 12 AWG (Flexible) 6 mm ² (Solid, Stranded) / 4 mm ² (Flexible)
Conductor Cross Section	(PE)	2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Fault Indication		Red Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; 125V/3A
RC Terminal Cross Section (max)		1.5mm ² (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque		2.2 lbf-in [0.25 Nm]

Order Information

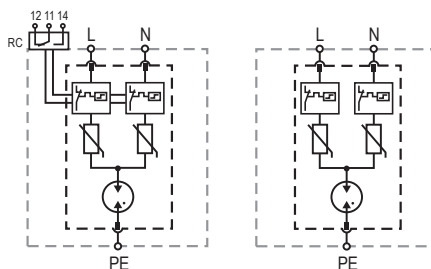
Order Code	320
ProTec DMG 20/xxx (2+0)	508.369
ProTec DMGR 20/xxx (2+0) (with remote contacts)	508.370
Module ProTec DMG(R) 20/xxx	508.371

ProTec DMG(R) 20 (2+0)

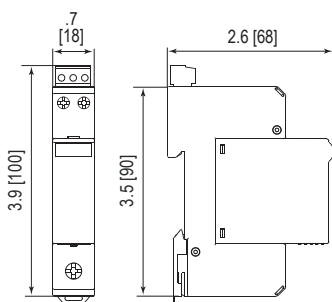
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging

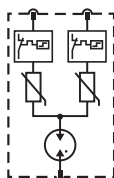


Dimensions & Packaging

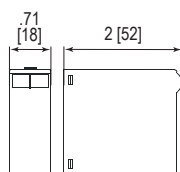
ProTec DMG 20/xxx (2+0)		320
Single Unit Weight	pounds [grams]	0.260 [118]
ProTec DMGR 20/xxx (2+0)		320
Single Unit Weight	pounds [grams]	0.271 [123]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x .9" [109 x 77 x 24 mm]
Minimum Order Quantity		12 Units

Module Internal Configuration

Module ProTec DMG(R) 20/xxx



Dimensions & Packaging



Dimensions & Packaging

Module ProTec DMG(R) 20/xxx		320
Single Unit Weight	pounds [grams]	0.112 [51]
Single Unit DIN 43880 Dimension		1 TE
Packaging Dimensions (H x W x L)		3.8 x 3 x 4.3" [98 x 77 x 110 mm]
Minimum Order Quantity		12 Units

Compact SPD
ProLed 275 (3+1) 16A
 Class III • Type 3



Location of Use: Sub-distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-N, N-PE
 Surge Ratings: $U_{oc}/I_{cw} = 6\text{ kV}/3\text{ kA}$
 IEC/EN Category: Class III / Type 3
 Protective Elements: MOV and GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProLed 275 (3+1) 16A

275

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230 V
Maximum Continuous Operating Voltage (AC)	U_c	275 V
Maximum Rated Load Current	I_L	16 A
Open Circuit Voltage of the Combination Wave Generator (1.2/50 μ s)	U_{oc}	6 kV
Short-Circuit Current of the Combination Wave Generator (8/20 μ s)	I_{cw}	3 kA
Voltage Protection Level	(L-N) U_p	1.2 kV
	(N-PE) U_p	1.8 kV
Response Time	(L-N)/(N-PE) t_A	< 25 ns / < 100 ns
Back-Up Fuse (if mains > 16 A)		MCB/B 16 A
Short-Circuit Current Rating (50 Hz)	I_{SCCR}	1.5 kA
TOV Withstand 5s	U_T	337 V
Number of Ports		2

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Conductor Cross Section		14 AWG (Stranded) / 2.5 mm ² (Stranded)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operation Status Fault Indication		Green / Red LED
Remote Contacts (RC)		Yes
RC Switching Capacity		10 A/230 V AC
RC Terminal Cross Section (max)		14 AWG (Stranded) / 2.5 mm ² (Stranded)
RC Terminal Screw Torque		4.4 lbf-in [0.5 Nm]

Order Information

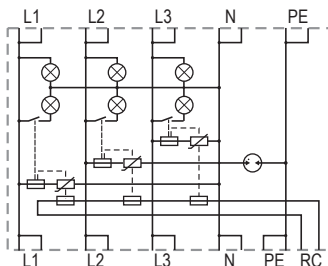
Order Code	275
ProLed 275 (3+1) 16A	130 304

ProLed 275 (3+1) 16A

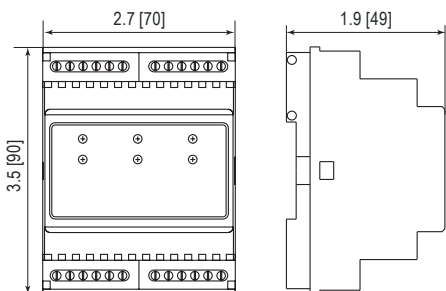
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts



Dimensions & Packaging



Dimensions & Packaging

ProLed 275 (3+1) 16A		275
Single Unit Weight	pounds [grams]	0.361 [164]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]
Minimum Order Quantity		3 Units



Compact Multi-pole SPD MPE Mini & MPE Mini LED

Class III • Type 3



Location of Use: Cable Ducts & Wiring Outlets
Network Systems: TN-S
Mode of Protection: L-PE, L-N, N-PE
Surge Ratings: $U_{oc}/I_{cw} = 6\text{ kV}/3\text{ kA}$
IEC/EN Category: Class III / Type 3
Protective Elements: MOV and GDT
Safety: Buzzer; LED
Housing: Compact Design
Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

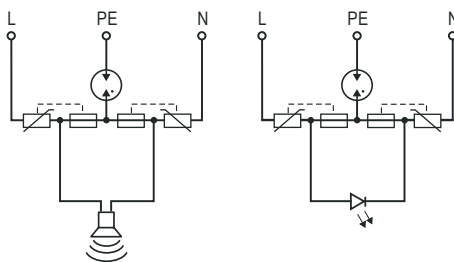
		MPE-Mini	MPE-Mini LED
Electrical			
Nominal AC Voltage (50/60 Hz)	U_o		230V
Maximum Continuous Operating Voltage (AC)	U_c		275V
Open Circuit Voltage of the Combination Wave Generator (1.2/50 μ s)	U_{oc}		6kV
	(L+N-PE) $U_{oc\ total}$		10kV
Short-Circuit Current of the Combination Wave Generator (8/20 μ s)	I_{cw}		3kA
Voltage Protection Level	(L-N) U_p		1.5kV
	(L-PE)/(N-PE) U_p		1.7kV
Response Time	t_A		< 100ns
Back-Up Fuse (if mains > 16A)			MCB/B 16A
Short-Circuit Current Rating	I_{SCCR}		1 kA
TOV withstand 5s	U_T		337V
Number of Ports			1
Mechanical & Environmental			
Temperature Range	T_a		-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH		5%...95%
Conductor Cross Section			17 AWG (Stranded) / 1.0 mm ² (Stranded)
Mounting			Cable Ducts
Degree of Protection			IP 20 (built-in)
Housing Material			Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection			Yes
Fault Indication		Buzzer	LED
Order Information			
Order Code		MPE-Mini	MPE-Mini LED
MPE-Mini		121 280	
MPE-Mini LED			121 282

MPE Mini & MPE Mini LED

Internal Configuration

MPE-Mini

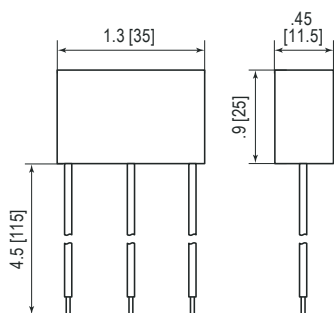
MPE-Mini LED



Legend

- L Line
- N Neutral
- PE Protective Earth

Dimensions & Packaging

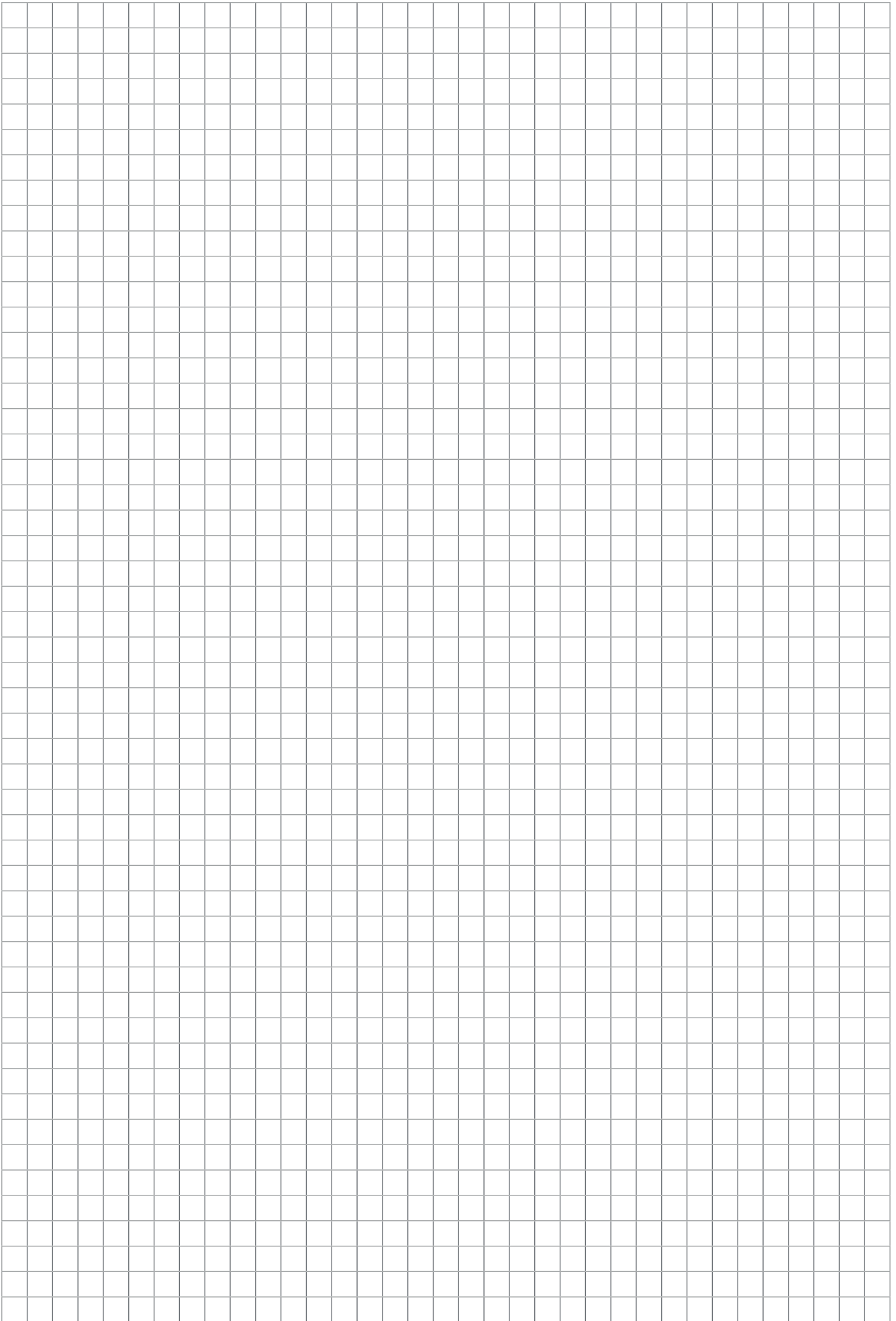


Dimensions & Packaging

MPE-Mini & MPE-Mini LED

Single Unit Weight	pounds [grams]	0.114 [52]
Packaging Dimensions (H x W x L)		12 x 4.5 x 3.2" [305 x 116 x 83 mm]
Minimum Order Quantity		30 Units





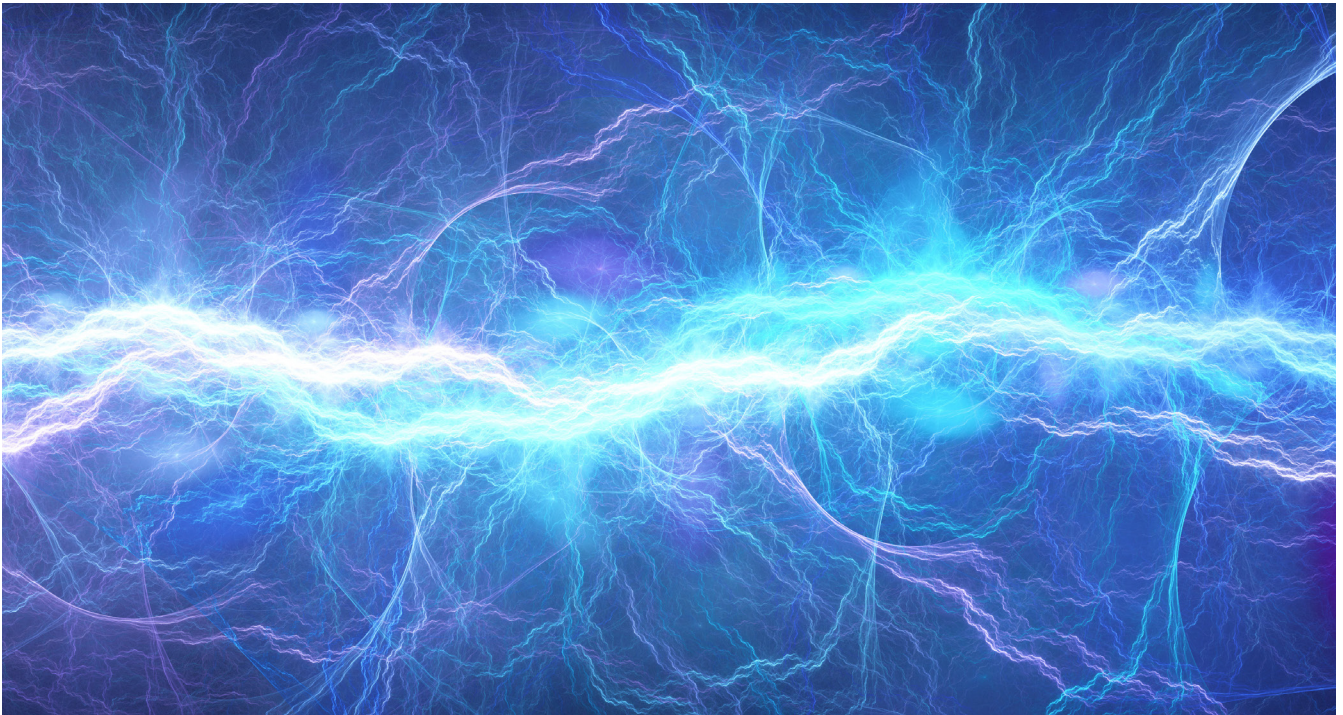
Overhead Power Lines Surge Protective Devices SPDs



ProTec AQS

The ProTec AQS series of overvoltage surge protective devices has been developed to protect against indirect lightning discharges on overhead power lines. The Class II SPD consists of a high-performance varistor with disconnection device which protects against short circuit conditions.

The ProTec AQS series comply with IEC/EN 61643-12 standards and features a silicon jacket for greater hermetic sealing properties.



Compact Single Pole SPD
ProTec AQS 40 Series
 Class II • Type 2



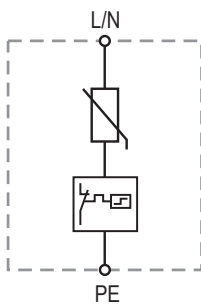
Location of Use: Overhead Power Lines
 Network Systems: TN, TT (only L-PE)
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_n = 20\text{ kA (8/20}\mu\text{s)}$
 $I_{max} = 40\text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class II / Type 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProTec AQS 40/xxx		150	275	320	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	440V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n	20 kA			
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA			
Voltage Protection Level	U_p	< 0.9kV	< 1.3kV	< 1.4kV	< 2.0kV
Response Time	t_A	< 25ns			
TOV Withstand 5s	U_T	216V	393V	393V	682V
Number of Ports		1			
Mechanical & Environmental					
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]			
Permissible Humidity	RH	5%...95%			
Connection Screw Torque	M_{max}	30.9 lbf-in [3.5 Nm]			
Connection Thread	(L/N)	M8			
Conductor Cross Section (max)	(PE)	6 mm ² (Solid, Stranded) / 10 AWG (Solid, Stranded)			
Mounting		Connection Accessories			
Degree of Protection		up to IP 67 (built-in)			
Housing Material		Silicon			
Thermal Protection		Yes			
Fault Indication		Disconnected Cable			
Order Information					
Order Code		150	275	320	440
PROTEC AQS 40/xxx		509.210	509.211	509.212	509.213

ProTec AQS 40 Series

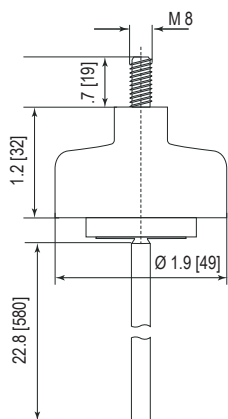
Internal Configuration



Legend

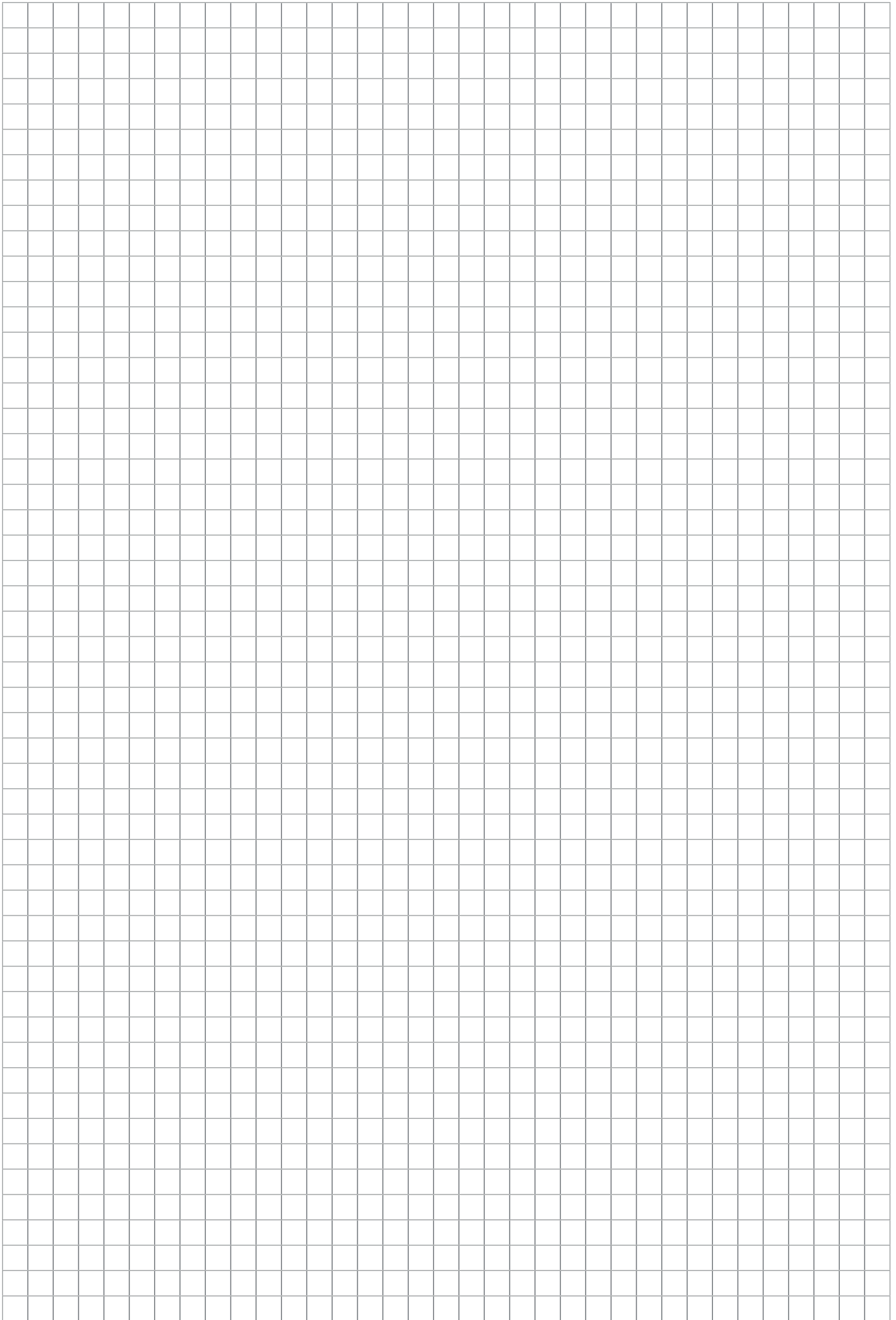
- L Line
- N Neutral
- PE Protective Earth

Dimensions & Packaging



Dimensions & Packaging

ProTec AQS 40/xxx	150	275	320	440	
Single Unit Weight	pounds	.246	.277	.286	.295
	grams	122	126	130	134
Packaging Dimensions (H x W x L)	15.3 x 14.9 x 11" [390 x 380 x 280 mm]				
Minimum Order Quantity	100 Units				



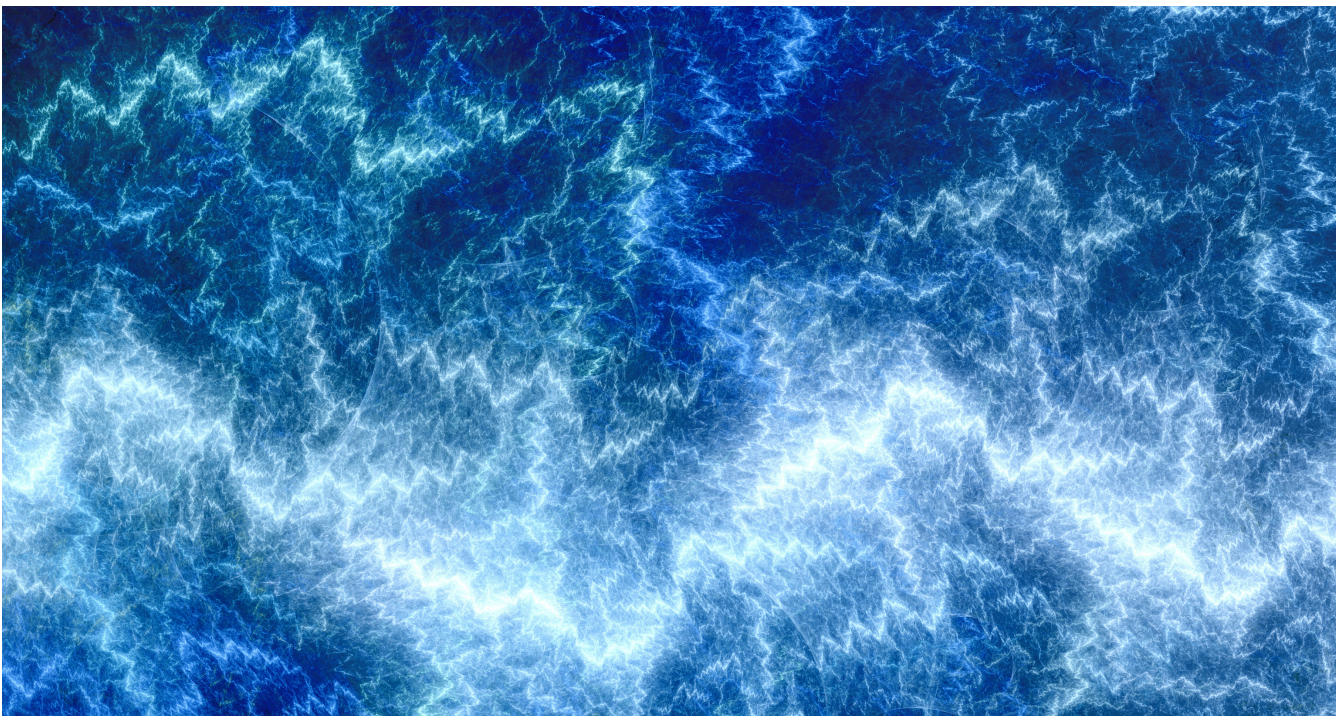
Isolating Spark Gap (ISG) Surge Protective Devices SPDs



EPZ 100

The EPZ series of isolating spark gaps has been developed to prevent unsafe potential gradients from establishing between adjacent metallic structures or surfaces during a lightning discharge event. This is achieved by an internal voltage switching component which establishes equipotential equalization when its predetermined spark-over voltage is reached, thereby preventing damage to equipment or eliminating unsafe conditions.

The EPZ is recommended for use in applications such as lightning protection grounding, where circumstances may dictate that a "clean" signal ground can not be directly connected to a "dirty" power system ground. It has wide application in the petrochemical industry for the protection of oil and gas pipeline insulating flanges from flash-overs during direct or nearby lightning discharges or when ground faults of nearby power transmission lines can cause large potential gradients across these flanges.



The EPZ is available in a hermetically sealed enclosure for direct burial applications.

The EPZ has been developed to comply with the EN 62561:1.0 Edition-Requirements for Lightning Protection Components (LPC), Part 3.

Isolating Spark Gaps (ISG) SPD EPZ 100



Location of Use: Exposed Environments and Direct Burial
 Surge Ratings: $I_{imp} = 25 \text{ kA}$
 $I_{max} = 100 \text{ kA (8/20}\mu\text{s)}$
 Protective Elements: High Energy GDT
 Safety: TOV Withstand
 Housing: Equipotential Bonding
 Compliance: IEC 62561-3:2012

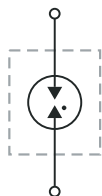
Corrosion resistant enclosure with hermetic environmental seal and flying leads for ease of connection.

Technical Data

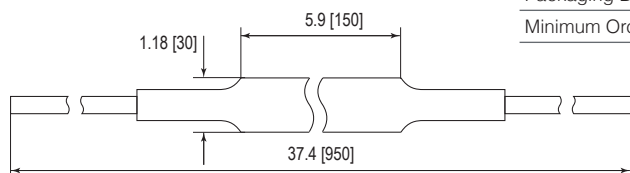
EPZ 100/xxx		350
Electrical		
Rated DC Withstand Voltage	U_{WDC}	350V
Rated Impulse Sparkover Voltage	$U_{r \text{ imp}}$	1000V
Maximum Discharge Current (8/20 μs)	I_{max}	100kA
Impulse Discharge Current	I_{imp}	25kA
Residual Voltage at 5kA (8/20 μs)	U_{res}	1.6kV
Class Lightning Current Carrying Capability		1L
Capacitance at 1 MHz	C	< 10pf
Mechanical & Environmental		
Temperature Range	Ta	-40 °F to +158 °F [-40 °C to +70 °C]
Nominal Outer Diameter		1.102" [28mm]
Nominal Length		5.511" [140mm]
Length With Cables (approx)		39.370" [1m]
Length (approx)		17.716" [450mm]
Cross Sectional Area		6 AWG [16mm ²]
Number of Conductors		$\geq 465/0.21$
Insulation		Double Insulated
Environmental Protection		UV Stabilized, Flame Retardant
Resistant		Acids, Solvents and Oils
Connection		Suitable for Screw or Lug Termination
Degree of Protection		IP 67 (built-in)
Housing Material		Plastic Sheath
Location		Indoor/Outdoor
Specifications for Use		
	Environmental	Local heating by pipelines and other hot surfaces in vicinity of the installation of the product must be considered by the installer to ensure that specified maximum ambient temperature is not exceeded.
	Wiring	Connection of the internal cables must be in accordance with the applicable requirement of IEC 60079-0 and IEC 60079-15 for field wiring connections.
	Safety	EPZ has an external non-metallic heat shrink sleeve which may provide a potential electrostatic charging hazard. See installation instructions for further information.
Order Information		
Order Code		350
EPZ 100/xxx		509 520

EPZ 100

Internal Configuration

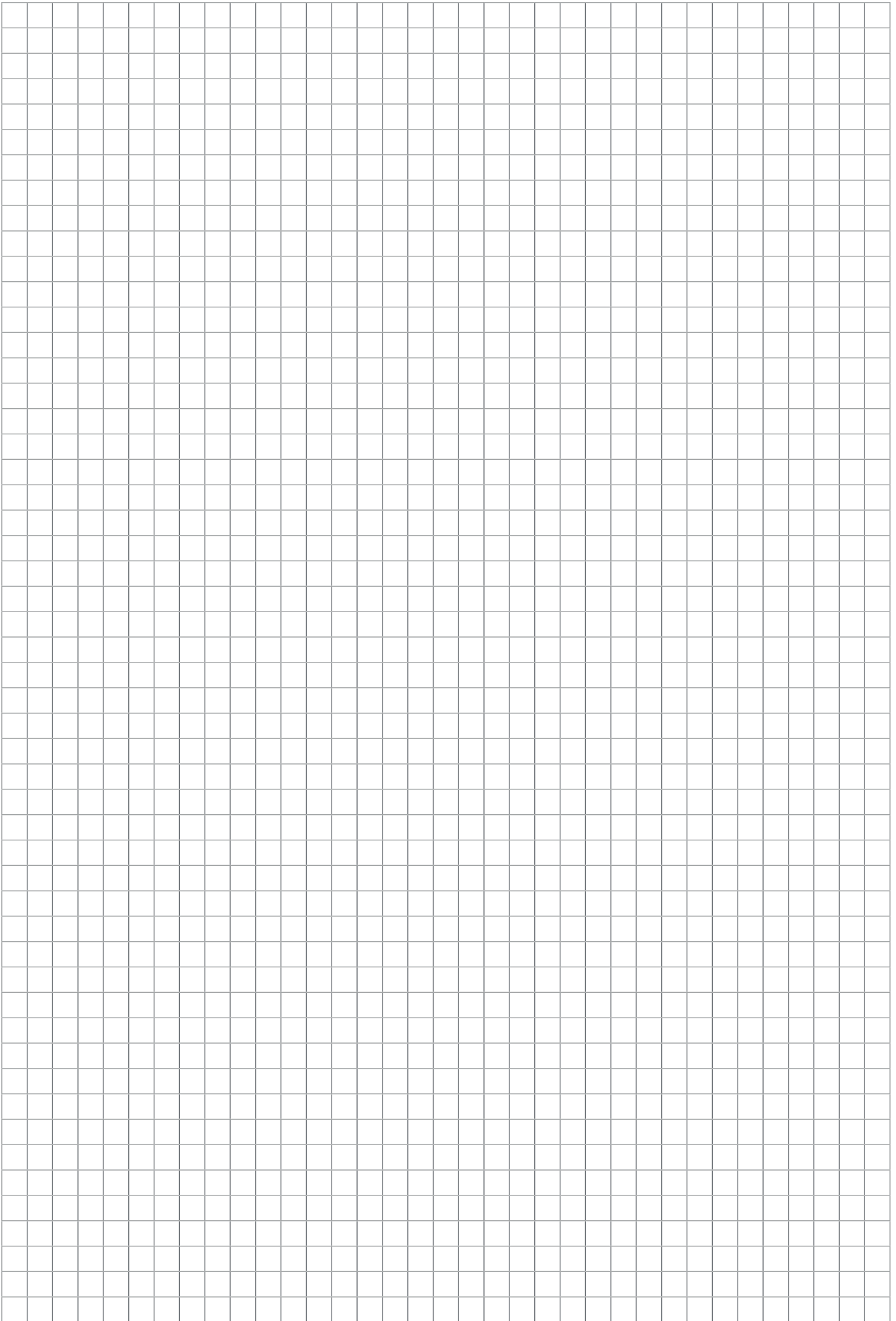


Dimensions & Packaging



Dimensions & Packaging

EPZ 100/xxx		350
Single Unit Weight	pounds [grams]	1.103 [500]
Packaging Dimensions (H×W×L)		13.7 × 4.9 × 2.1" [350 × 125 × 55mm]
Minimum Order Quantity		27 Units



Surge Protective Devices Connection Accessories

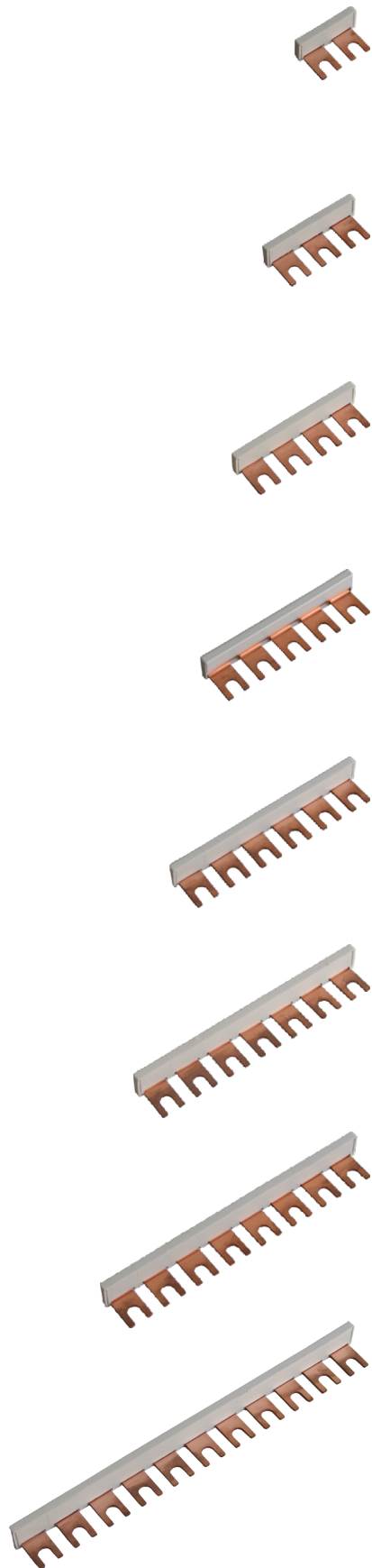


ProBar & ProTec AQS Accessories

The ProBar series of insulated busbar interconnects is for use with Single, Two and Three phase busbar DIN rail products.

Fixing cable and fixing hooks are used as fastening devices for ProTec AQS overhead power lines.

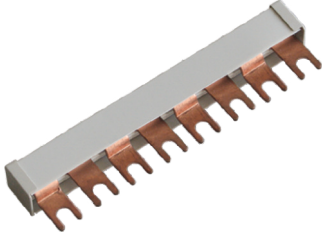




ProBar	1-2
Mechanical	
Number of Poles	2
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 338
ProBar	1-3
Mechanical	
Number of Poles	3
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 339
ProBar	1-4
Mechanical	
Number of Poles	4
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 340
ProBar	1-5
Mechanical	
Number of Poles	5
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 341
ProBar	1-6
Mechanical	
Number of Poles	6
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 342
ProBar	1-7
Mechanical	
Number of Poles	7
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 343
ProBar	1-8
Mechanical	
Number of Poles	8
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 344
ProBar	1-11
Mechanical	
Number of Poles	11
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 345

Modular Wiring Systems ProBar Busbar

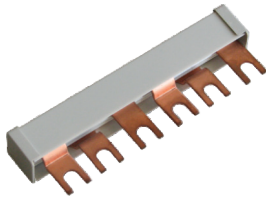
Two Phase Series



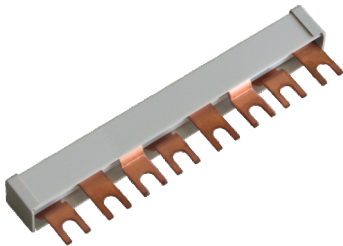
ProBar	2-8
Mechanical	
Number of Poles	8
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 346

Modular Wiring Systems ProBar Busbars

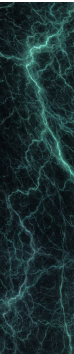
Three Phase Series



ProBar	3-6
Mechanical	
Number of Poles	6
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 347



ProBar	3-8
Mechanical	
Number of Poles	8
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 348

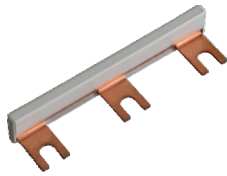


PB 1 Busbars

ProTec B(R) 2 TE • SafeTec B(R) 2 TE



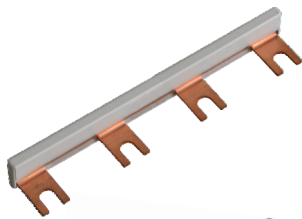
PB 1 (2+0)	1 (2+0)
Mechanical	
Number of Poles	2
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 349



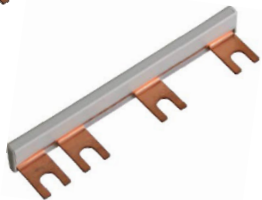
PB 1 (3+0)	1 (3+0)
Mechanical	
Number of Poles	3
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 350



PB 1 (2+1)	1 (2+1)
Mechanical	
Number of Poles	2
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 351



PB 1 (4+0)	1 (4+0)
Mechanical	
Number of Poles	4
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 352



PB 1 (3+1)	1 (3+1)
Mechanical	
Number of Poles	4
Busbar Cross Section	6 AWG / 16 mm ²
Order Information	
Ordering Code	501 353

Compact Single Pole Overhead Power Lines
Connection Accessories
ProTec AQS Series



Fixing Cable

Order Information

Ordering Code 509 522



Fixing Hook

Order Information

Ordering Code 509 523



PSN

Connection clamp for the non-insulated conductor.

Order Information

Ordering Code 509 524



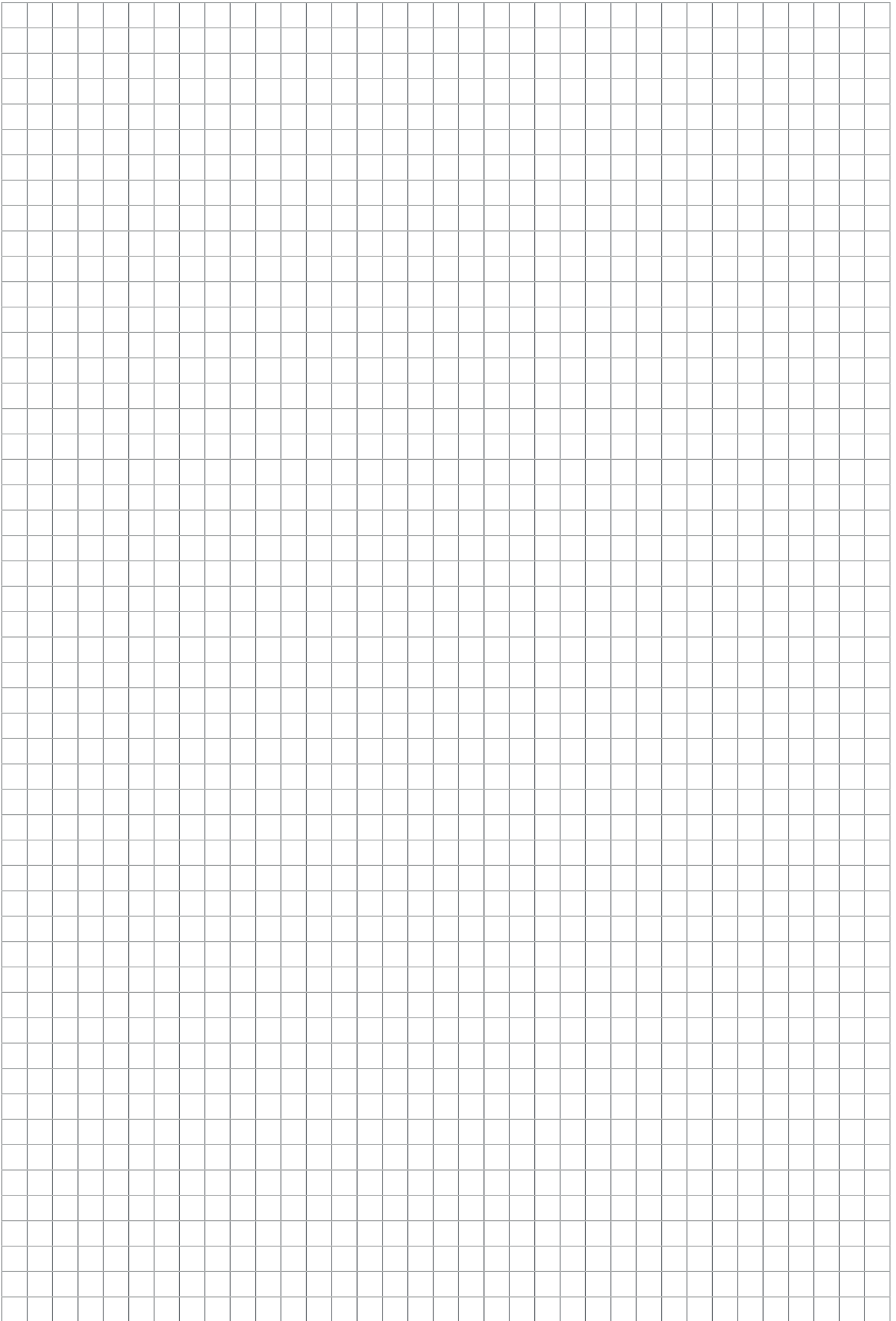
PSI

Connection clamp for the insulated conductor.

Order Information

Ordering Code 509 525







Connection Configurations

ProTec T1 & ProTec T1-R

ProTube T1

ProTec T1H & ProTec T1H-R

ProTube T1H

ProTec T1HS & ProTec T1HS-R

ProTec ZP T1H-R

ProBloc B & ProBloc BR

ProBloc B

SafeBloc B & SafeBloc BR

SafeTube B

ProTec T2 & ProTec T2-R

ProTube T2

ProTec T2H & ProTec T2H-R

ProTube T2H

ProTec T2-ADV & ProTec T2-ADV-R

SafeTec T2 & SafeTec T2-R

SafeTube T2

ProTec T1-PV

ProTec T2-PV

ProTec DMDR

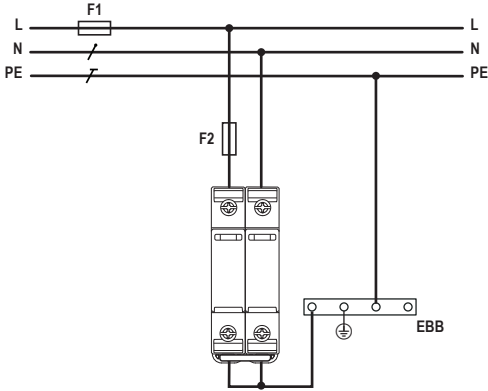
ProTec DMG & DMGR

ProLed 275

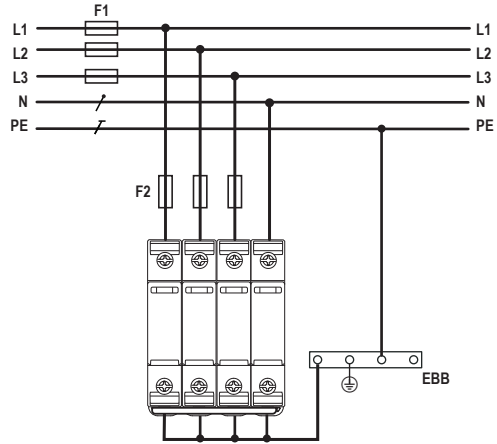
Pluggable Multi-pole SPD Connection Configurations

ProTec T1 & ProTube T1, ProTec T1H & ProTube T1H Series

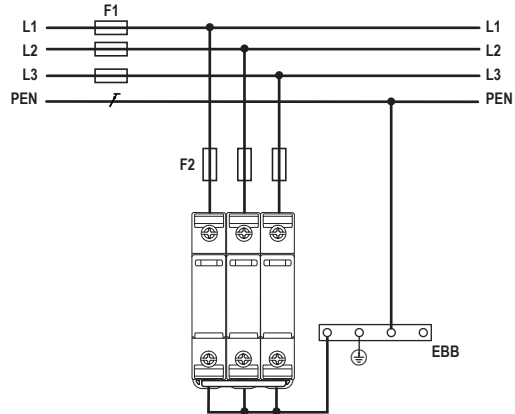
TN-S (Single-phase, 2+0, 1+1)



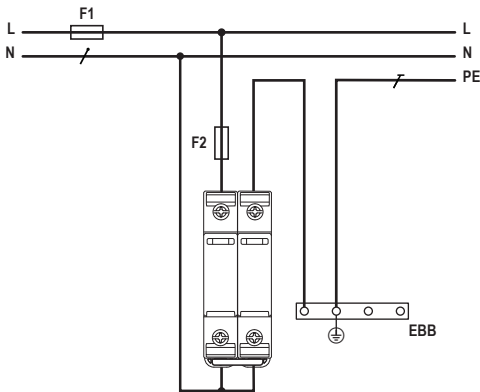
TN-S (Three-phase, 4+0, 3+1)



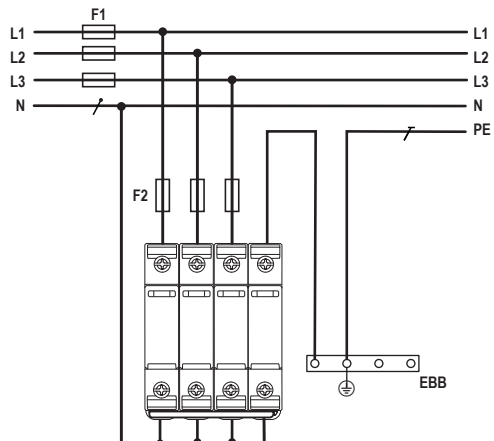
TN-C (Three-phase, 3+0)



TT (Single-phase, 1+1)



TT (Three-phase, 3+1)



/ N Neutral
 / PE Protective Earth
 / PEN Protective Earth & Neutral

Back-up Fuse $I_{scrr} = 50\text{kA}$

— F1 > 250 A gG → F2 = 250 A gG
 — F1 ≤ 250 A gG → ~~F2~~

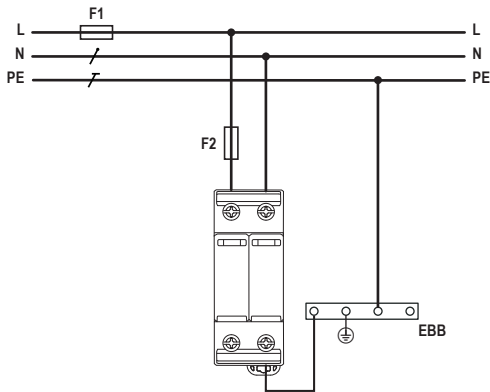
Back-up Fuse $I_{scrr} = 25\text{kA}$

— F1 > 315 A gG → F2 = 315 A gG
 — F1 ≤ 315 A gG → ~~F2~~

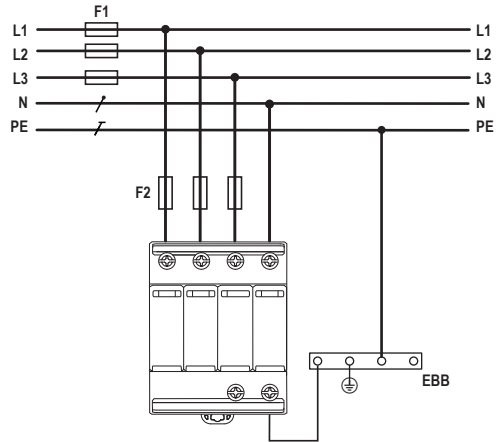
Pluggable Multi-pole SPD Connection Configurations

ProTec T1 & ProTec T1H Series

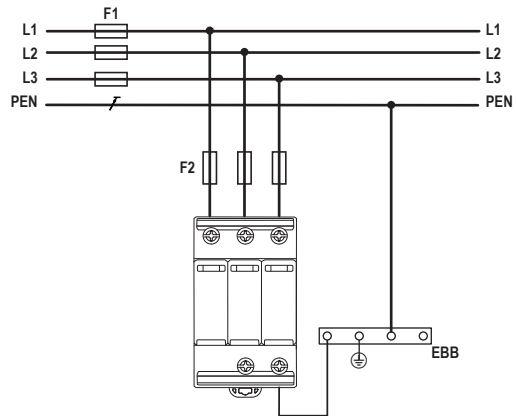
TN-S (Single-phase, 2+0, 1+1)



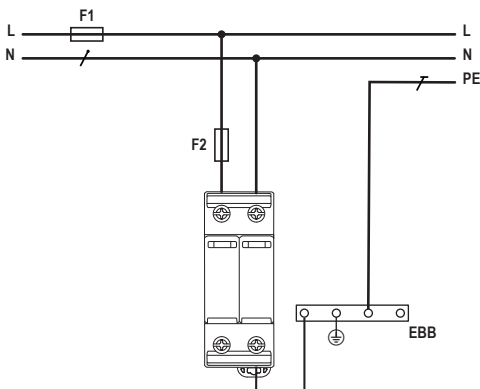
TN-S (Three-phase, 4+0, 3+1)



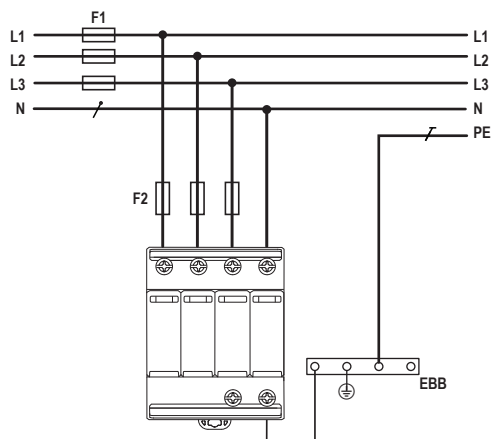
TN-C (Three-phase, 3+0)



TT (Single-phase, 1+1)



TT (Three-phase, 3+1)



/ N Neutral
 / PE Protective Earth
 / PEN Protective Earth & Neutral

Back-up Fuse $I_{scrr} = 50\text{kA}$

— F1 > 250 A gG → — F2 = 250 A gG
 — F1 ≤ 250 A gG → ~~— F2~~

Back-up Fuse $I_{scrr} = 25\text{kA}$

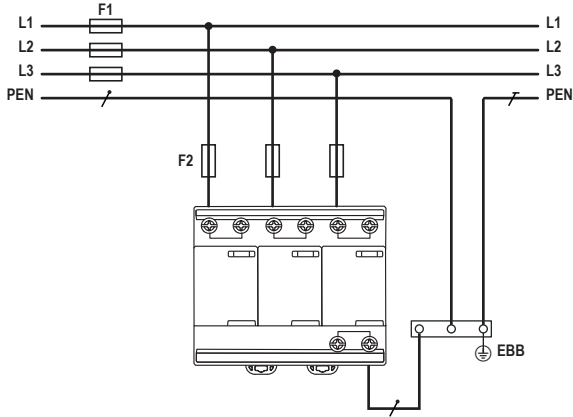
— F1 > 315 A gG → — F2 = 315 A gG
 — F1 ≤ 315 A gG → ~~— F2~~

Pluggable Multi-pole SPD Connection Configurations

ProTec T1HS Series

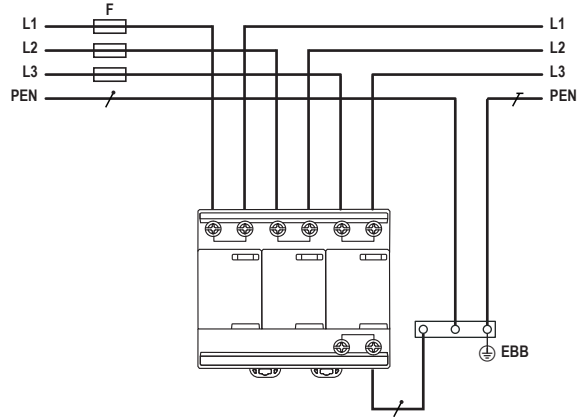
TN-C (Three-phase, 3+0)

T Connection



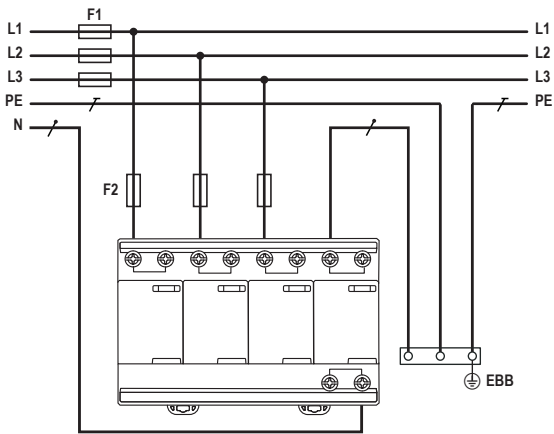
TN-C (Three-phase, 3+0)

V Connection



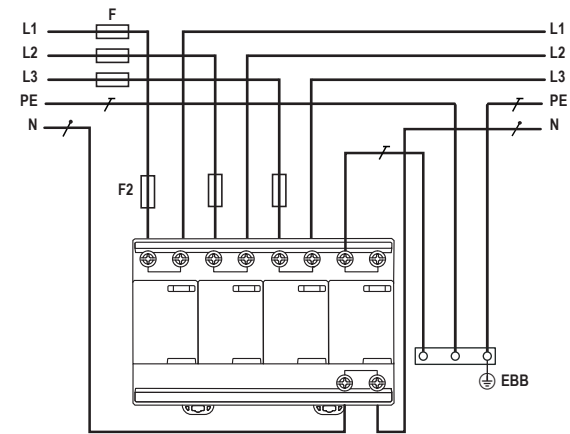
TN-S (Three-phase, 3+1)

T Connection



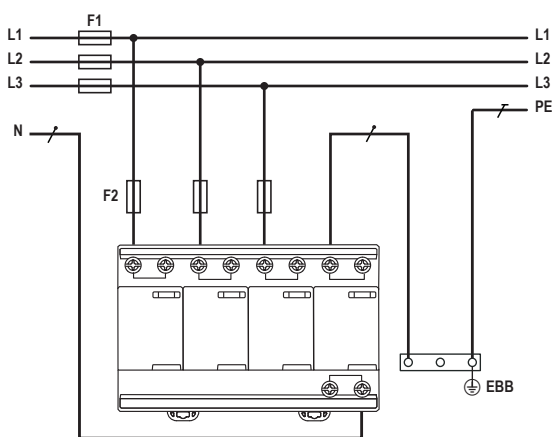
TN-S (Three-phase, 3+1)

V Connection



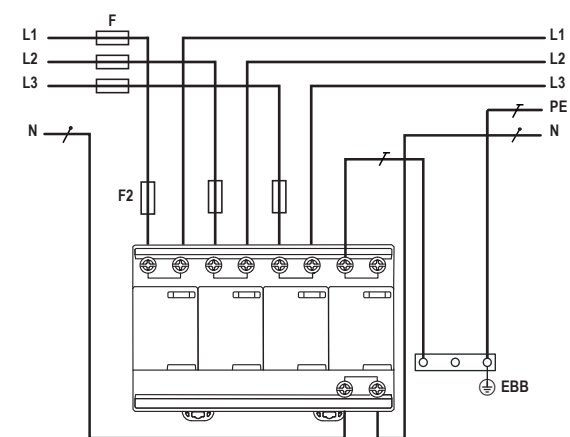
TT (Three-phase, 3+1)

T Connection



TT (Three-phase, 3+1)

V Connection



/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

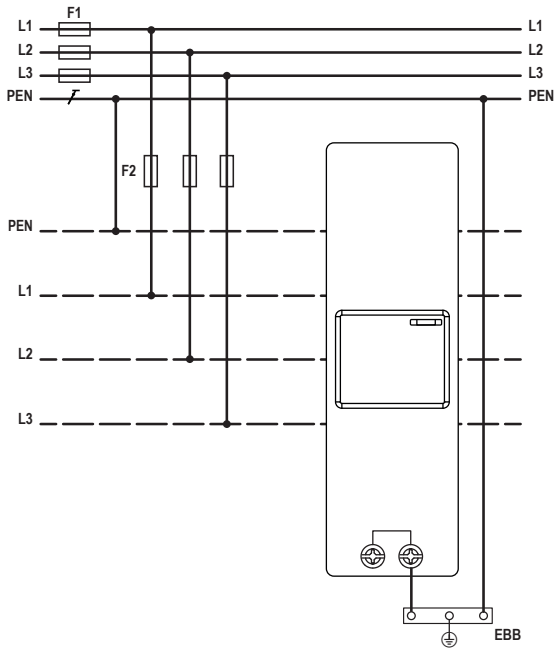
Back-up Fuse

— F1 > 315A gG → — F2 = 315A gG

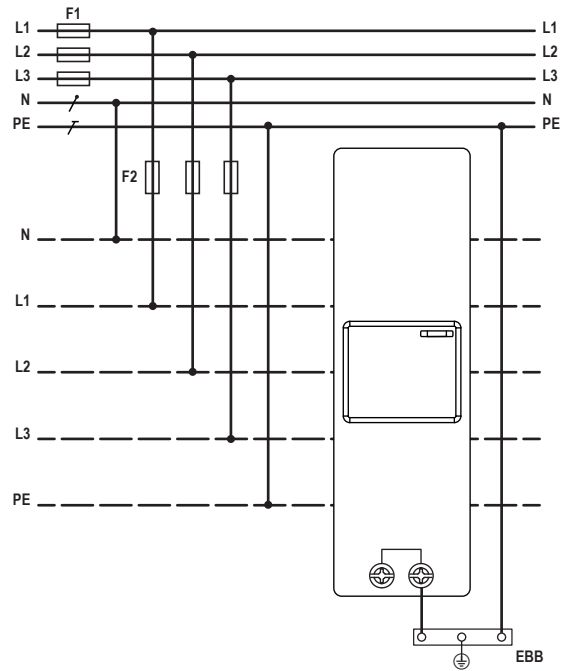
— F1 ≤ 315A gG → ~~— F2~~

Combined Lightning Current and Surge Arrester ProTec ZP T1H

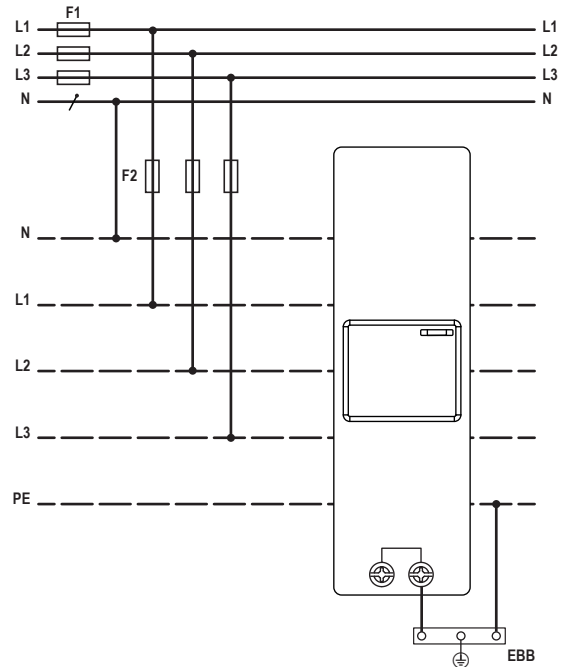
TN-C Connection



TN-S Connection



TT Connection



/ N Neutral
 / PE Protective Earth
 / PEN Protective Earth & Neutral

Back-up Fuse $I_{scsr} = 50\text{kA}$

— F1 > 250 A gG → — F2 = 250 A gG
 — F1 ≤ 250 A gG → ~~— F2~~

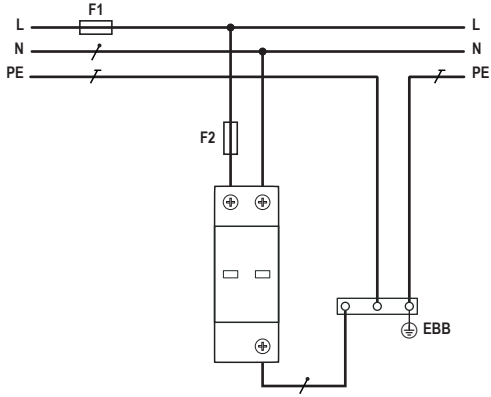
Back-up Fuse $I_{scsr} = 25\text{kA}$

— F1 > 315 A gG → — F2 = 315 A gG
 — F1 ≤ 315 A gG → ~~— F2~~

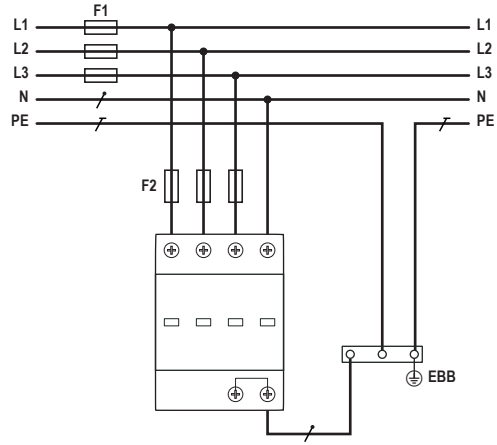
Compact Multi-pole SPD Connection Configurations

ProBloc B(R) 12.5kA Series

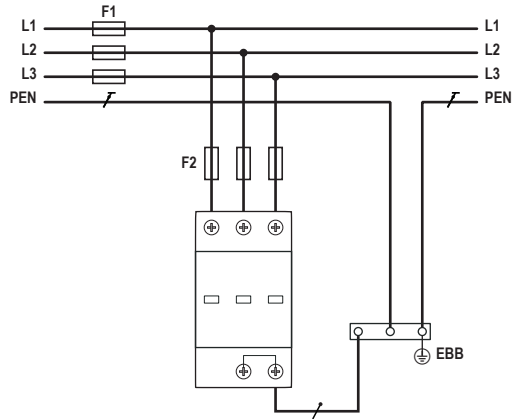
TN-S (Single-phase, 2+0, 1+1)



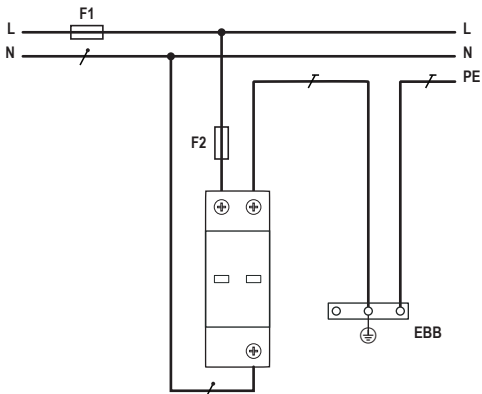
TN-S (Three-phase, 4+0, 3+1)



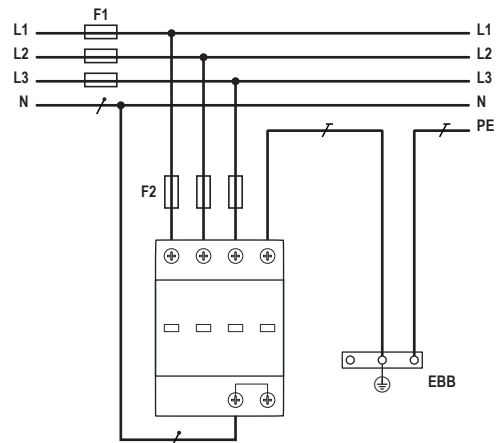
TN-C (Three-phase, 3+0)



TT (Single-phase, 1+1)



TT (Three-phase, 3+1)



Back-up Fuse

/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

— F1 > 250 A gG → — F2 = 250 A gG

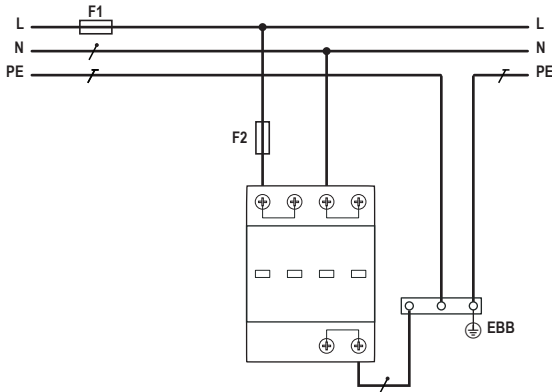
— F1 ≤ 250 A gG → ~~— F2~~

— F ≤ 100 A gG

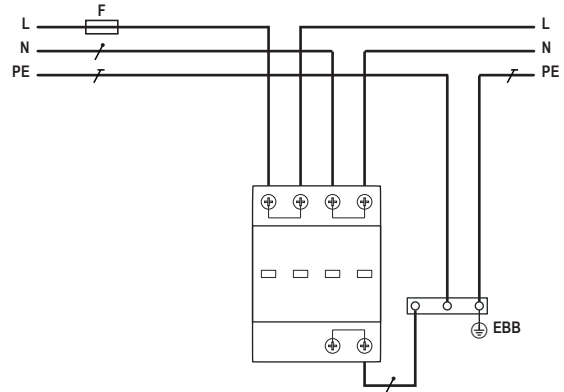
Compact Multi-pole SPD Connection Configurations

ProBloc B(R) 25kA Series

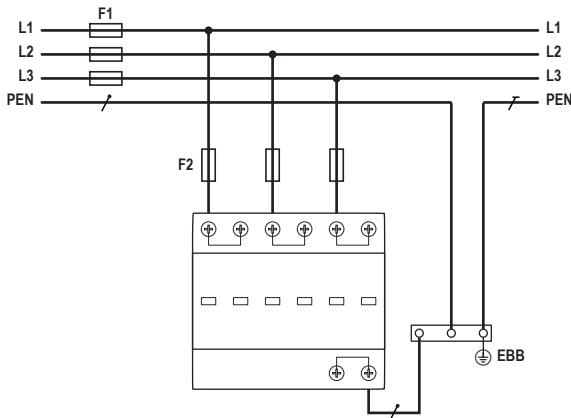
TN-S (Single-phase, 2+0, 1+1)
T Connection



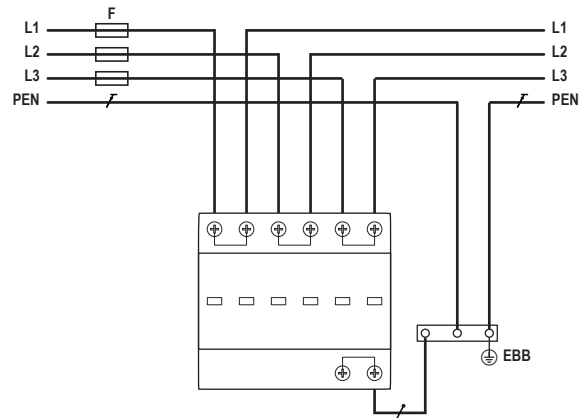
TN-S (Single-phase, 2+0, 1+1)
V Connection



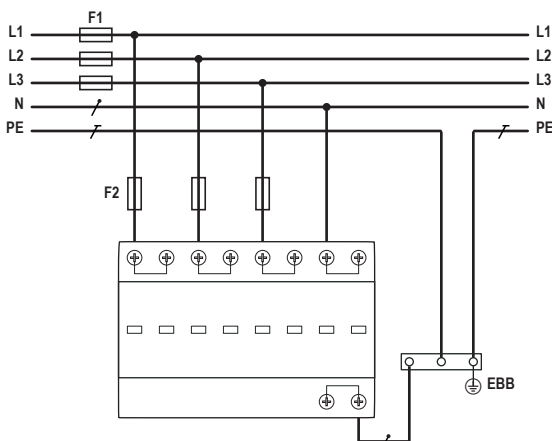
TN-C (Three-phase, 3+0)
T Connection



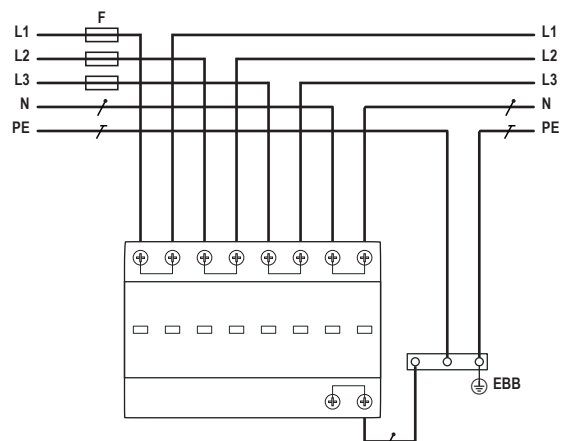
TN-C (Three-phase, 3+0)
V Connection



TN-S (Three-phase, 4+0, 3+1)
T Connection



TN-S (Three-phase, 4+0, 3+1)
V Connection



Back-up Fuse

/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

— F1 > 250 A gG → — F2 = 250 A gG

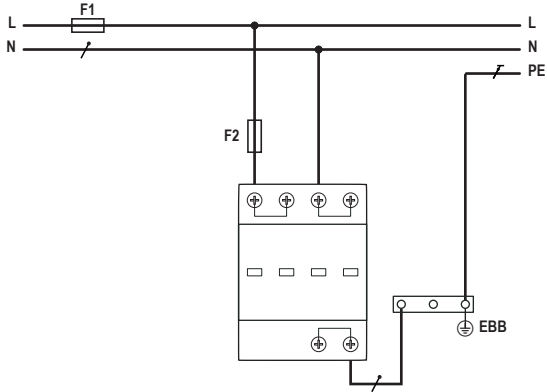
— F1 ≤ 250 A gG → ~~— F2~~

— F ≤ 100 A gG

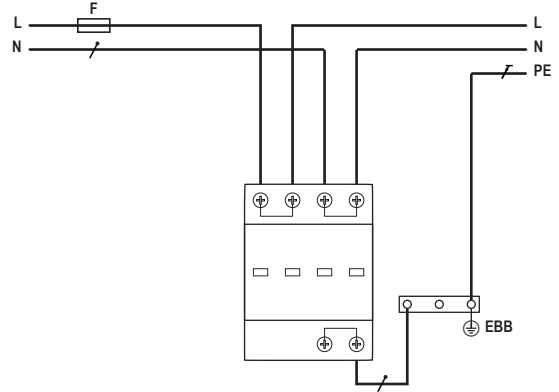
Compact Multi-pole SPD Connection Configurations

ProBloc B(R) 25kA Series

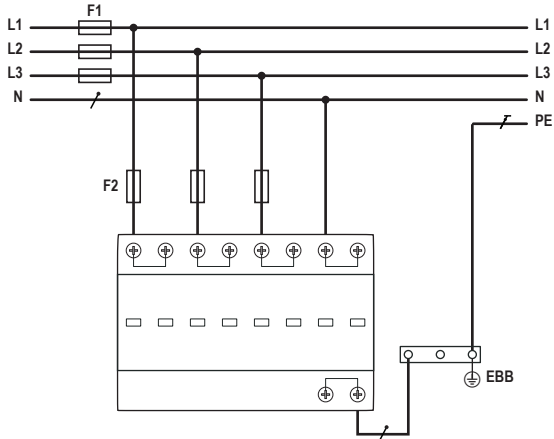
TT (Single-phase, 1+1)
T Connection



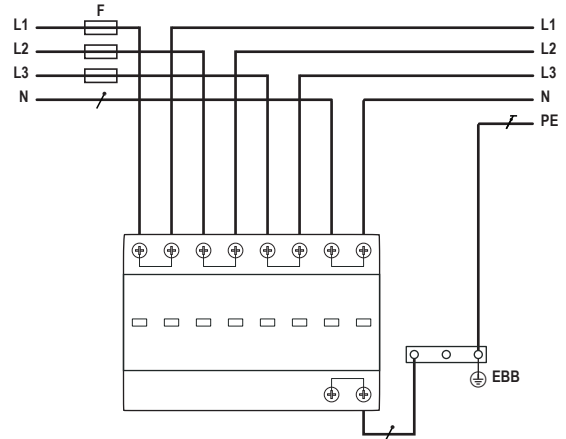
TT (Single-phase, 1+1)
V Connection



TT (Three-phase, 3+1)
T Connection



TT (Three-phase, 3+1)
V Connection



Back-up Fuse

/ N Neutral
/ PE Protective Earth
/ PEN Protective Earth & Neutral

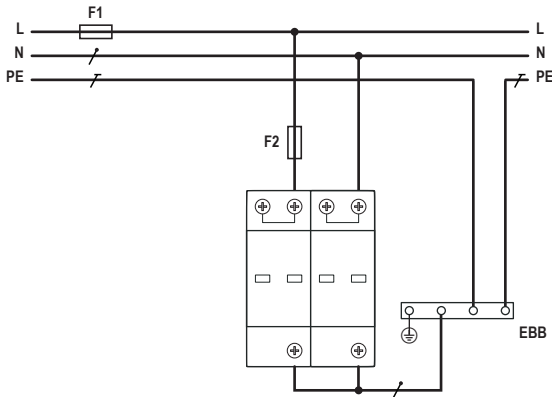
— F1 > 250 A gG → — F2 = 250 A gG
— F1 ≤ 250 A gG → ~~— F2~~
— F ≤ 100 A gG

Compact Single Pole SPD Connection Configurations

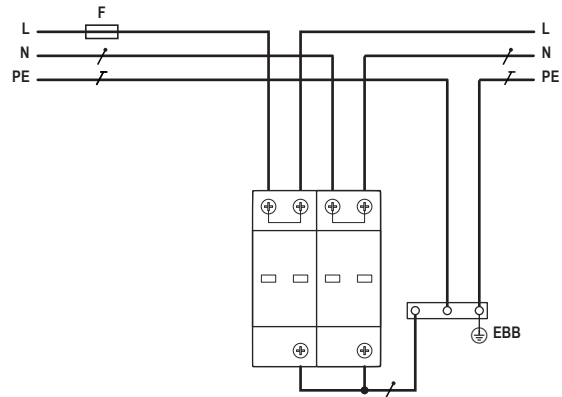
ProBloc B(R) 12.5kA & 25kA Series

ProTube B 50 & ProTube B 100 Series

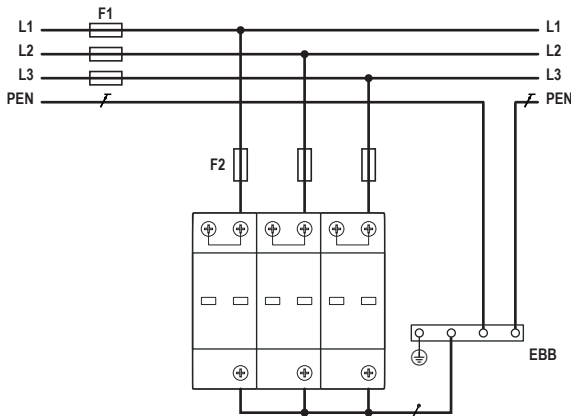
TN-S (Single-phase, 2+0, 1+1)
T Connection



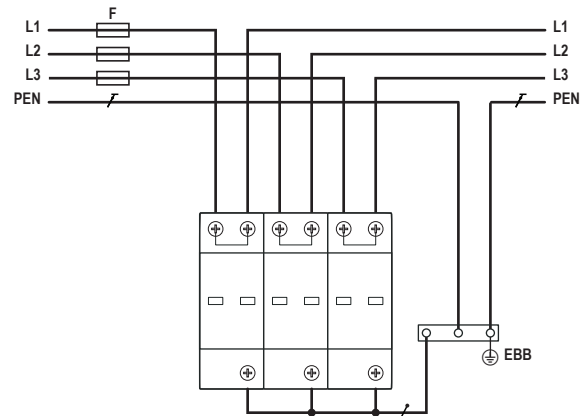
TN-S (Single-phase, 2+0, 1+1)
V Connection



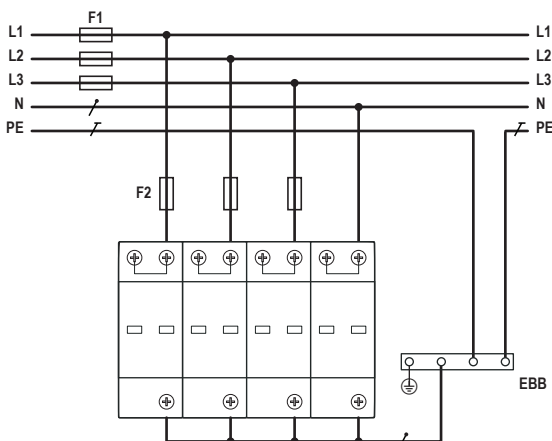
TN-C (Three-phase, 3+0)
T Connection



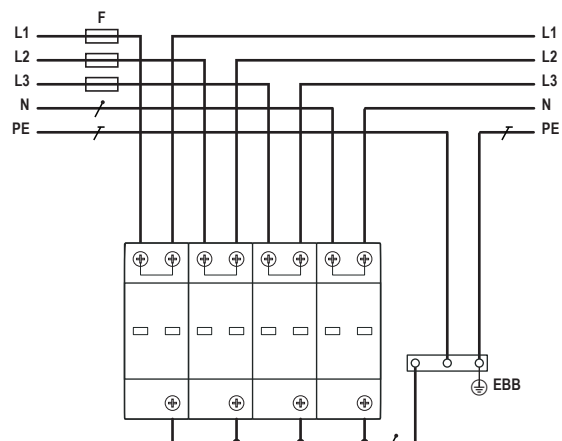
TN-C (Three-phase, 3+0)
V Connection



TN-S (Three-phase, 4+0, 3+1)
T Connection



TN-S (Three-phase, 4+0, 3+1)
V Connection



Back-up Fuse

/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

— F1 > 250 A gG → — F2 = 250 A gG

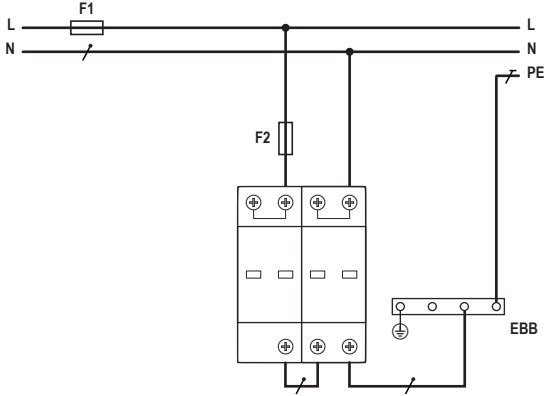
— F1 ≤ 250 A gG → ~~— F2~~

— F ≤ 100 A gG

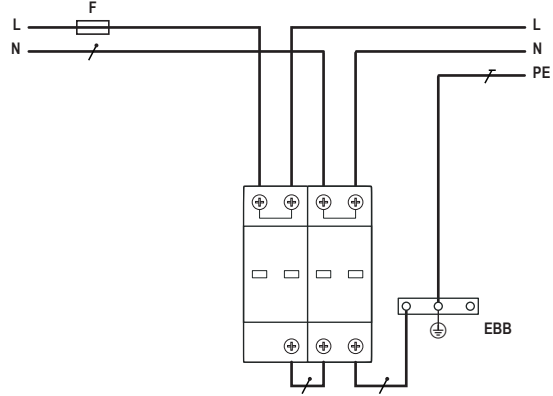
Compact Single Pole SPD Connection Configurations

ProBloc B(R) 12.5kA & 25kA Series ProTube B 50 & ProTube B 100 Series

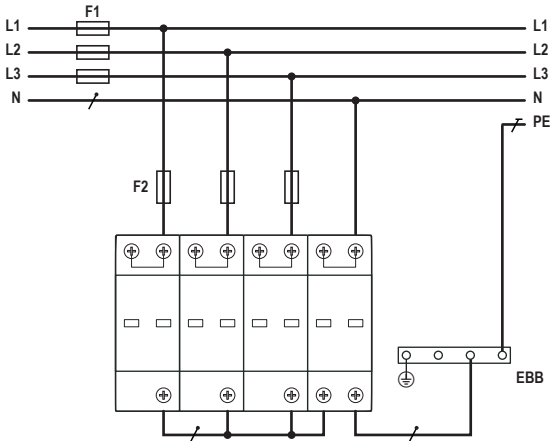
TT (Single-phase, 1+1)
T Connection



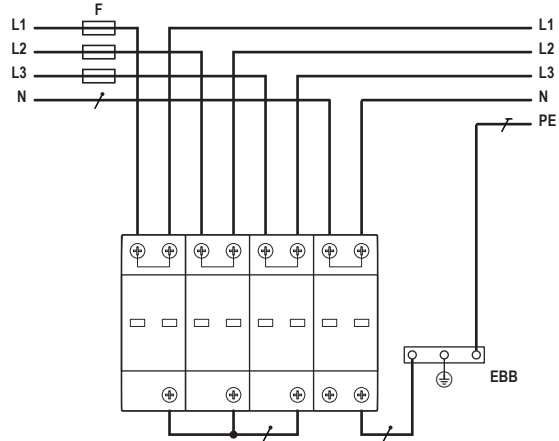
TT (Single-phase, 1+1)
V Connection



TT (Three-phase, 3+1)
T Connection



TT (Three-phase, 3+1)
V Connection



Back-up Fuse

/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

— F1 > 250 A gG → — F2 = 250 A gG

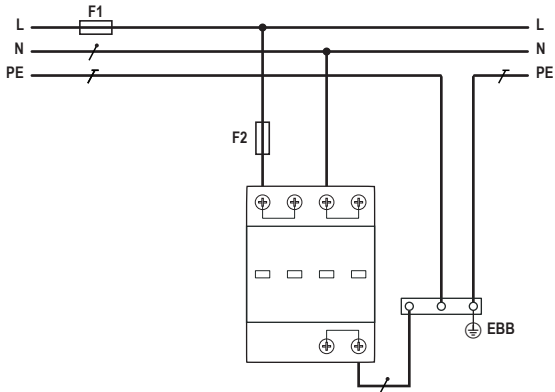
— F1 ≤ 250 A gG → ~~— F2~~

— F ≤ 100 A gG

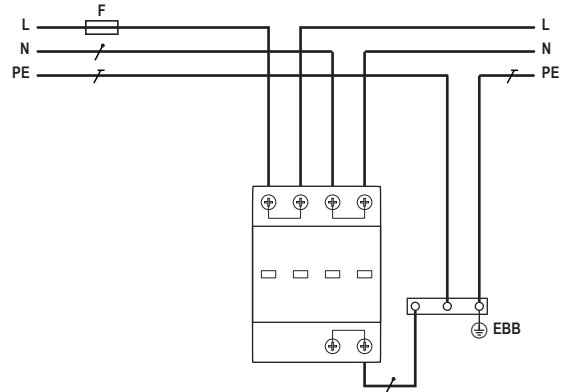
Compact Multi-pole SPD Connection Configurations

SafeBloc B(R) TCG 12.5kA & 25kA Series

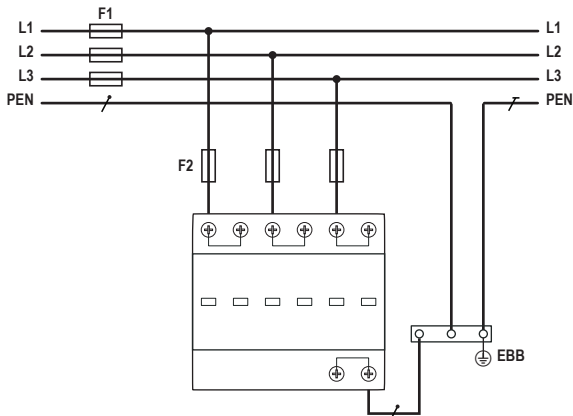
TN-S (Single-phase, 2+0, 1+1)
T Connection



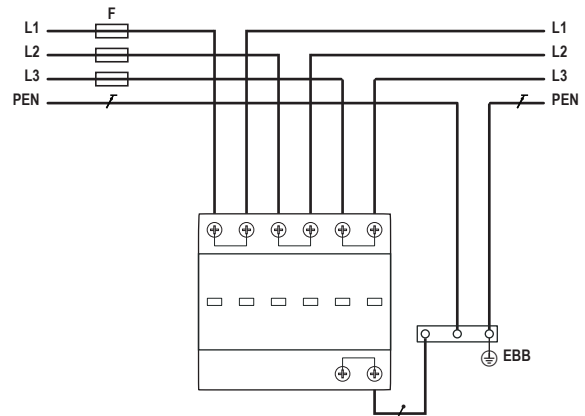
TN-S (Single-phase, 2+0, 1+1)
V Connection



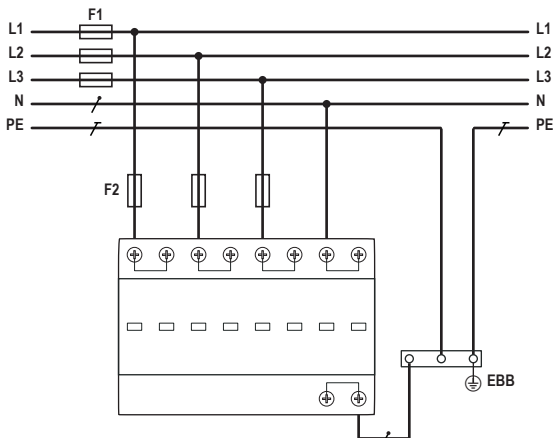
TN-C (Three-phase, 3+0)
T Connection



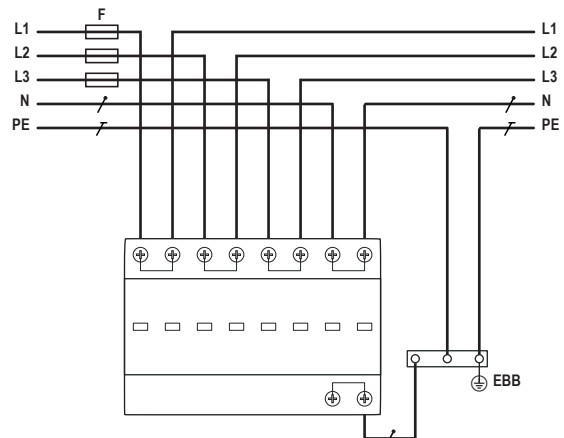
TN-C (Three-phase, 3+0)
V Connection



TN-S (Three-phase, 4+0, 3+1)
T Connection



TN-S (Three-phase, 4+0, 3+1)
V Connection



Back-up Fuse

/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

— F1 > 250 A gG → — F2 = 250 A gG

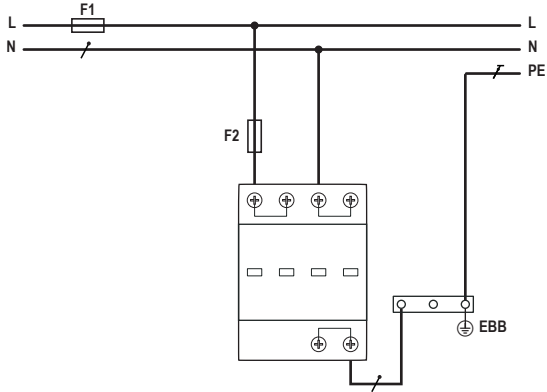
— F1 ≤ 250 A gG → ~~— F2~~

— F ≤ 100 A gG

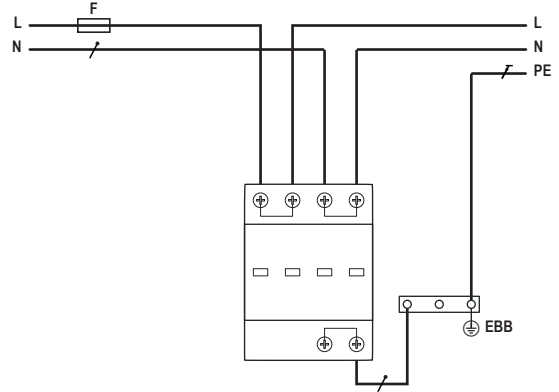
Compact Multi-pole SPD Connection Configurations

SafeBloc B(R) TCG 12.5kA & 25kA Series

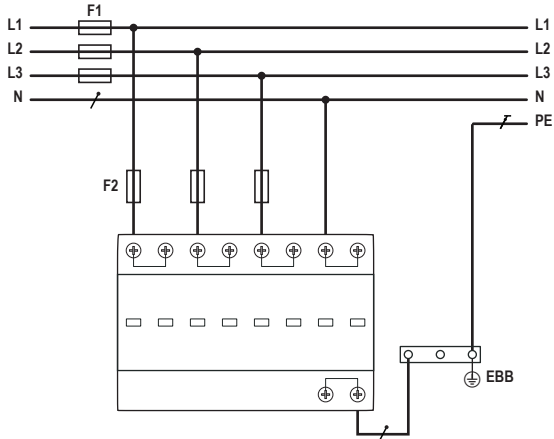
TT (Single-phase, 1+1)
T Connection



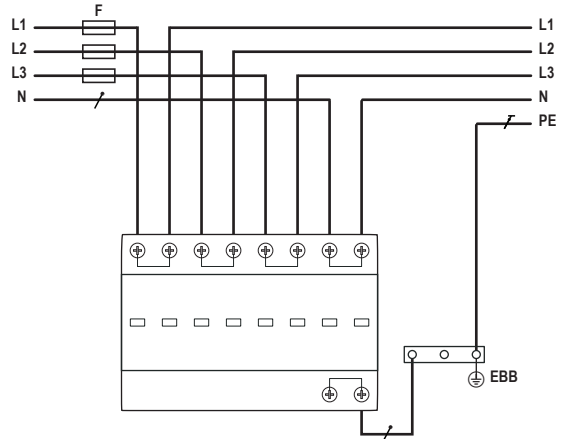
TT (Single-phase, 1+1)
V Connection



TT (Three-phase, 3+1)
T Connection



TT (Three-phase, 3+1)
V Connection



Back-up Fuse

/ N Neutral
/ PE Protective Earth
/ PEN Protective Earth & Neutral

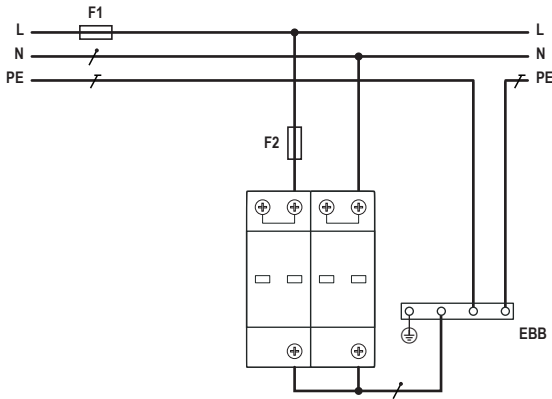
— F1 > 250 A gG → — F2 = 250 A gG
— F1 ≤ 250 A gG → ~~— F2~~
— F ≤ 100 A gG

Compact Single Pole SPD Connection Configurations

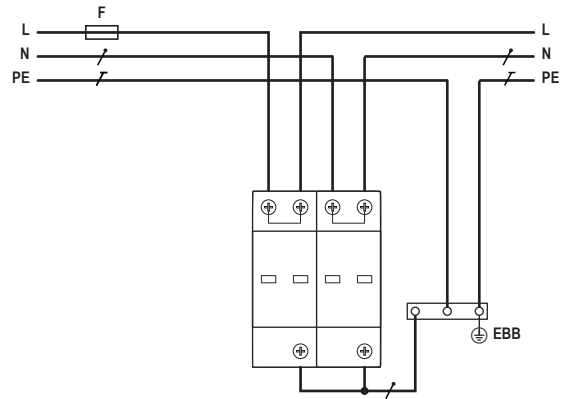
SafeBloc B(R) TCG 12.5kA & 25kA Series

SafeTube B 50 & SafeTube B 100 Series

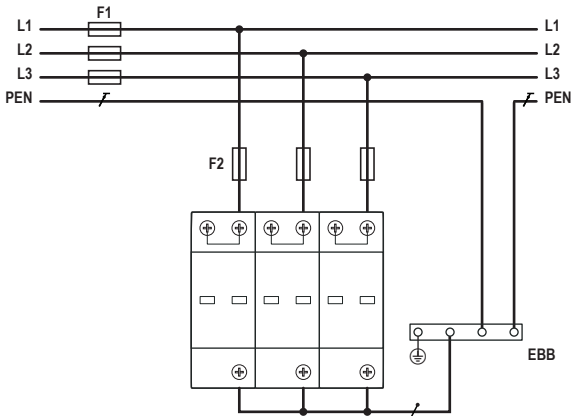
TN-S (Single-phase, 2+0, 1+1)
T Connection



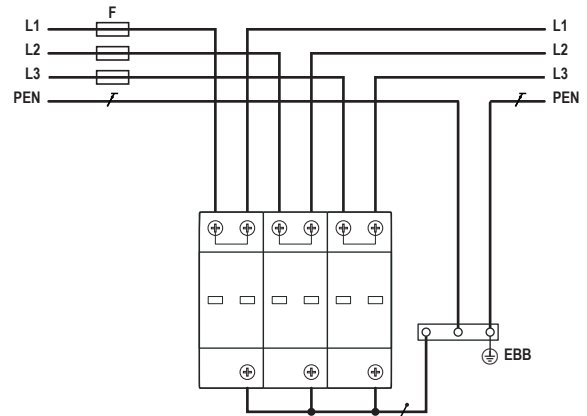
TN-S (Single-phase, 2+0, 1+1)
V Connection



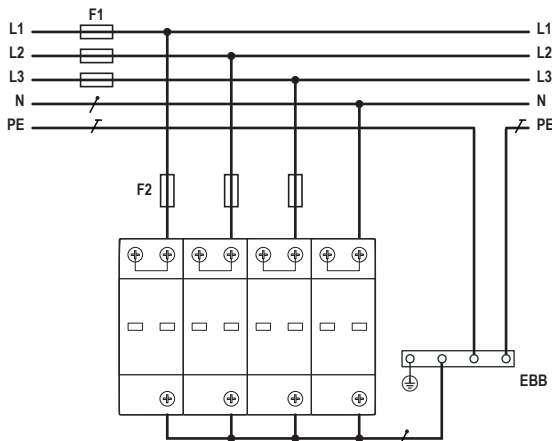
TN-C (Three-phase, 3+0)
T Connection



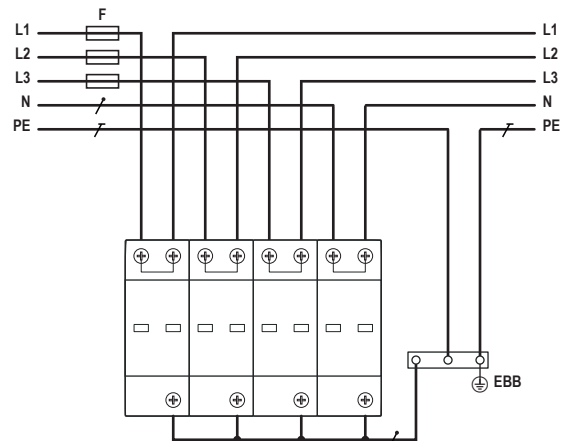
TN-C (Three-phase, 3+0)
V Connection



TN-S (Three-phase, 4+0, 3+1)
T Connection



TN-S (Three-phase, 4+0, 3+1)
V Connection



Back-up Fuse

/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

— F1 > 250 A gG → — F2 = 250 A gG

— F1 ≤ 250 A gG → ~~— F2~~

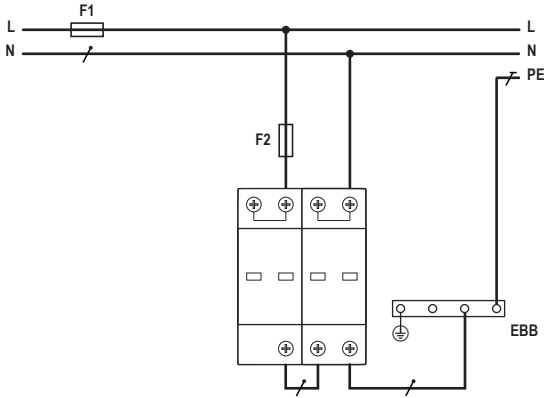
— F ≤ 100 A gG

Compact Single Pole SPD Connection Configurations

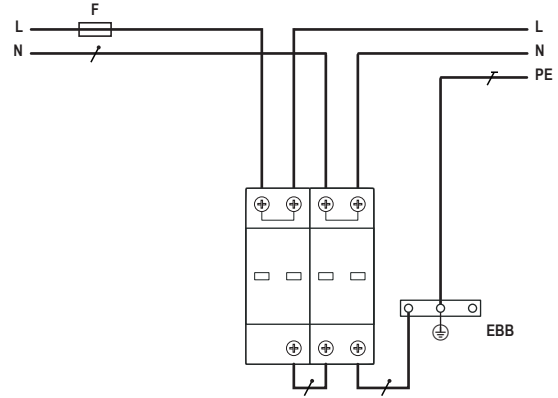
SafeBloc B(R) TCG 12.5kA & 25kA Series

SafeTube B 50 & SafeTube B 100 Series

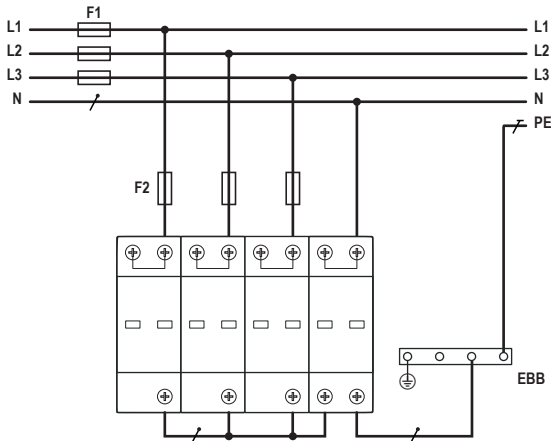
TT (Single-phase, 1+1)
T Connection



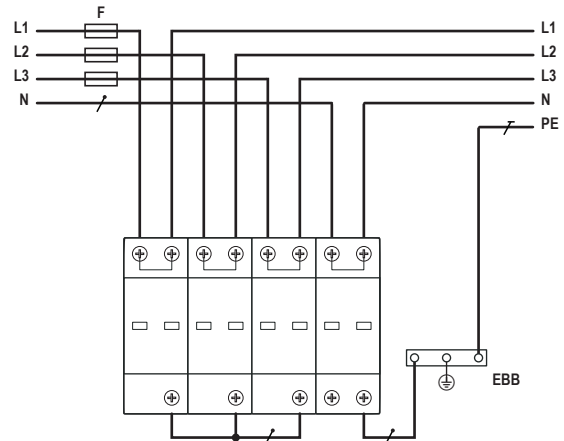
TT (Single-phase, 1+1)
V Connection



TT (Three-phase, 3+1)
T Connection



TT (Three-phase, 3+1)
V Connection



Back-up Fuse

/ N Neutral

/ PE Protective Earth

/ PEN Protective Earth & Neutral

— F1 > 250 A gG → — F2 = 250 A gG

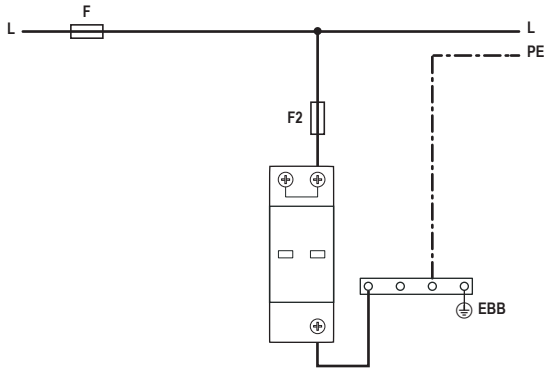
— F1 ≤ 250 A gG → ~~— F2~~

— F ≤ 100 A gG

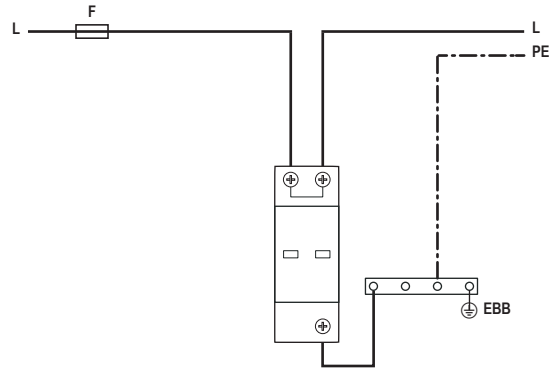
WT Compact Single Pole SPD Connection Configurations

SafeBloc B(R) WT TCG Series

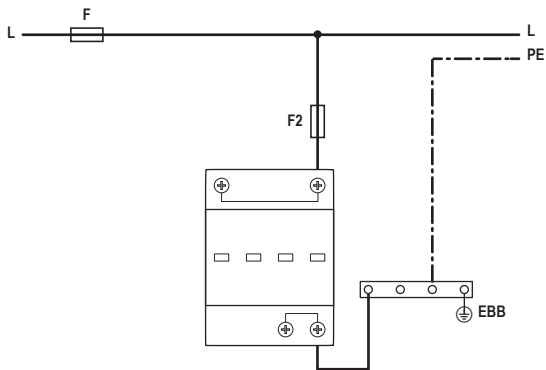
SafeBloc B(R) 12.5 WT TCG
T Connection



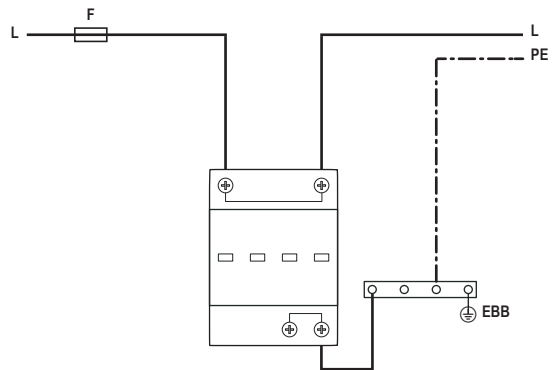
V Connection



SafeBloc B(R) 25 WT TCG
T Connection



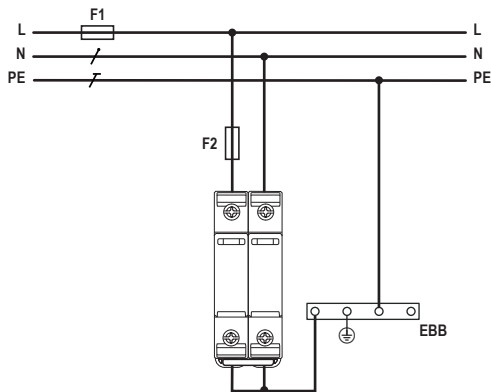
V Connection



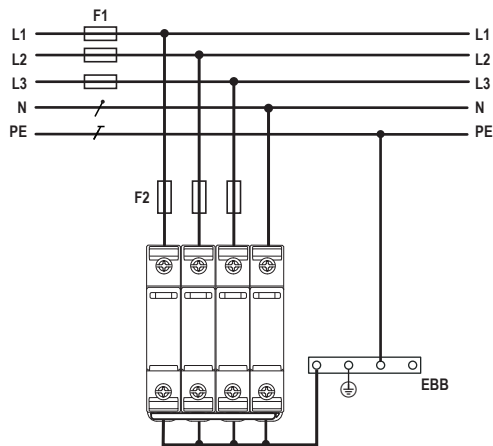
Pluggable Multi-pole SPD Connection Configurations

ProTec T2 & ProTube T2, ProTec T2H & ProTube T2H, ProTec T2-ADV Series

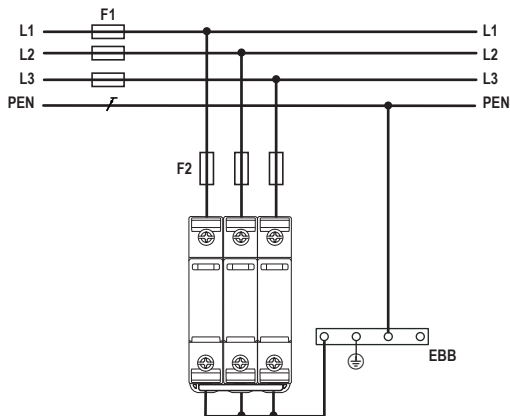
TN-S (Single-phase, 2+0, 1+1)



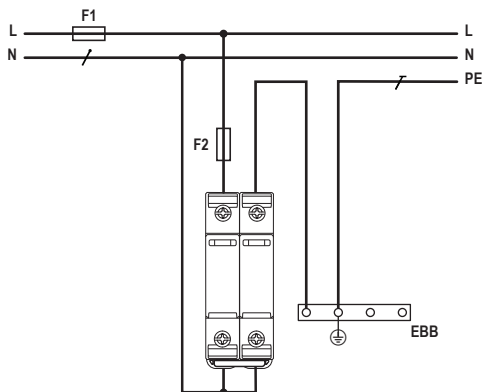
TN-S (Three-phase, 4+0, 3+1)



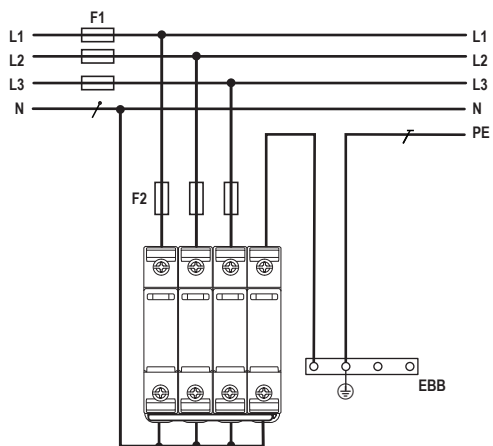
TN-C (Three-phase, 3+0)



TT (Single-phase, 1+1)



TT (Three-phase, 3+1)



Back-up Fuse - ProTec T2-ADV

- F1 > 160 A gG → F2 = 160 A gG
- F1 ≤ 160 A gG → ~~F2~~

Back-up Fuse I_{scrr} = 50 kA

- F1 > 250 A gG → F2 = 250 A gG
- F1 ≤ 250 A gG → ~~F2~~

Back-up Fuse I_{scrr} = 25 kA

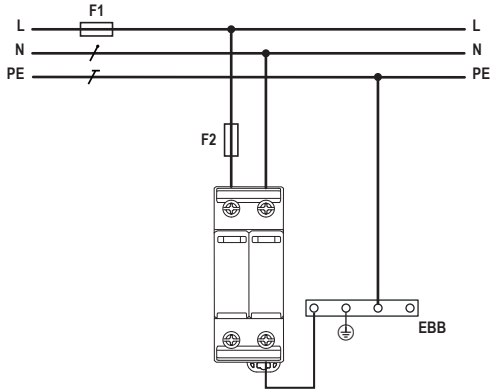
- F1 > 315 A gG → F2 = 315 A gG
- F1 ≤ 315 A gG → ~~F2~~

/ N Neutral
 / PE Protective Earth
 / PEN Protective Earth & Neutral

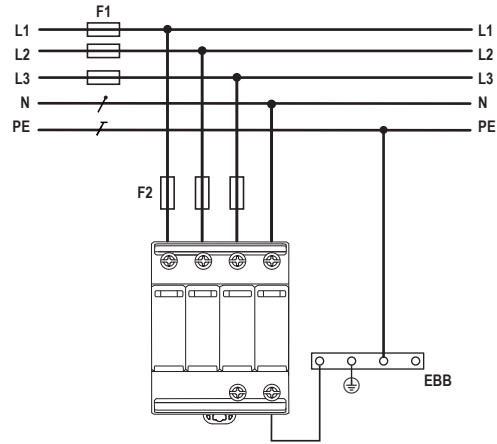
Pluggable Multi-pole SPD Connection Configurations

ProTec T2 & ProTec T2H & ProTec T2-ADV Series

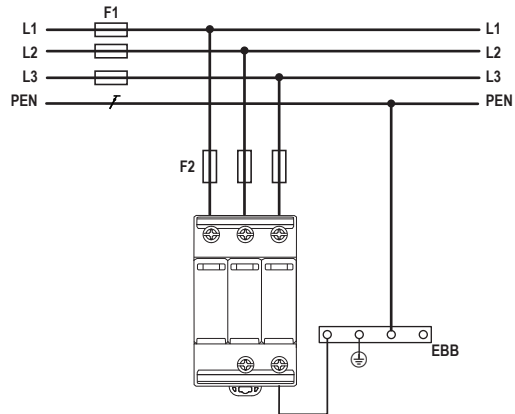
TN-S (Single-phase, 2+0, 1+1)



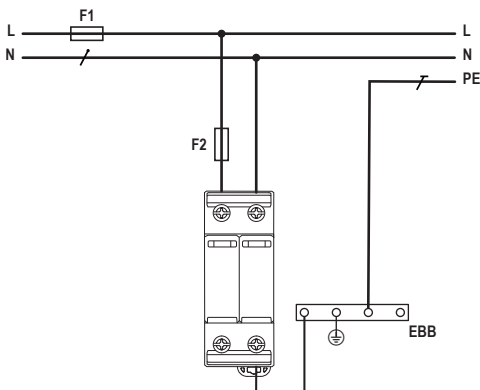
TN-S (Three-phase, 4+0, 3+1)



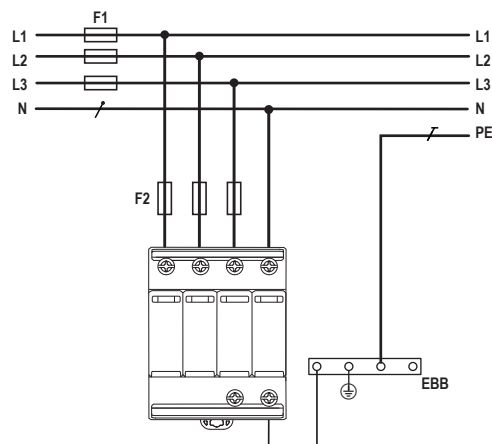
TN-C (Three-phase, 3+0)



TT (Single-phase, 1+1)



TT (Three-phase, 3+1)



Back-up Fuse - ProTec T2-ADV

- F1 > 160 A gG → F2 = 160 A gG
- F1 ≤ 160 A gG → ~~F2~~

Back-up Fuse I_{scrr} = 50 kA

- F1 > 250 A gG → F2 = 250 A gG
- F1 ≤ 250 A gG → ~~F2~~

Back-up Fuse I_{scrr} = 25 kA

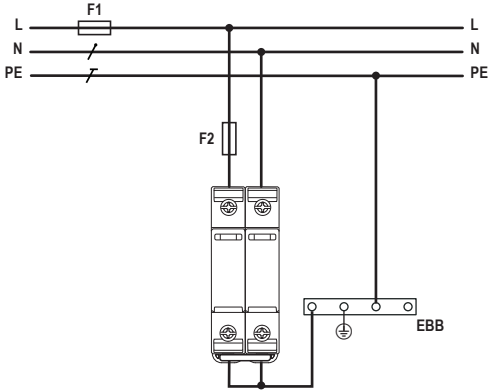
- F1 > 315 A gG → F2 = 315 A gG
- F1 ≤ 315 A gG → ~~F2~~

/ N Neutral
 / PE Protective Earth
 / PEN Protective Earth & Neutral

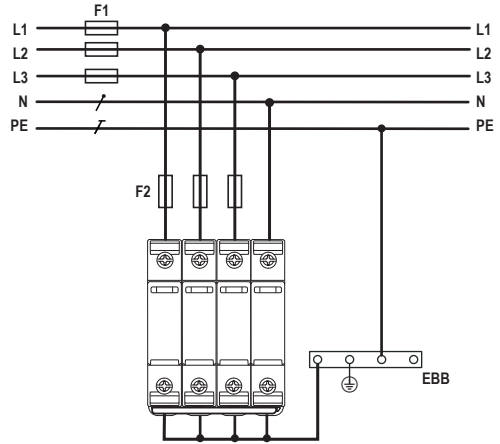
Pluggable Multi-pole SPD Connection Configurations

SafeTec T2 & SafeTube T2 Series

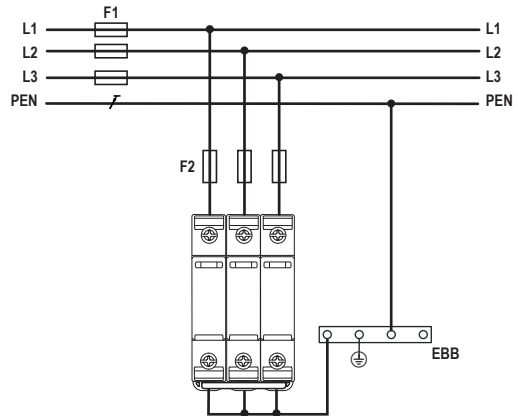
TN-S (Single-phase, 2+0, 1+1)



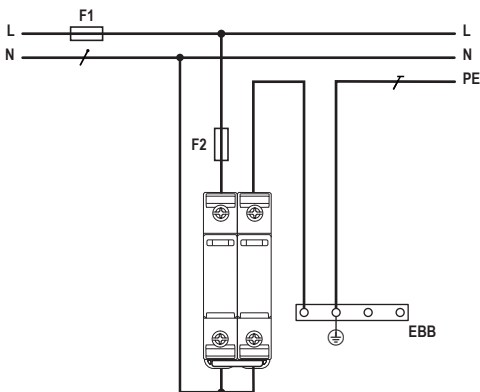
TN-S (Three-phase, 4+0, 3+1)



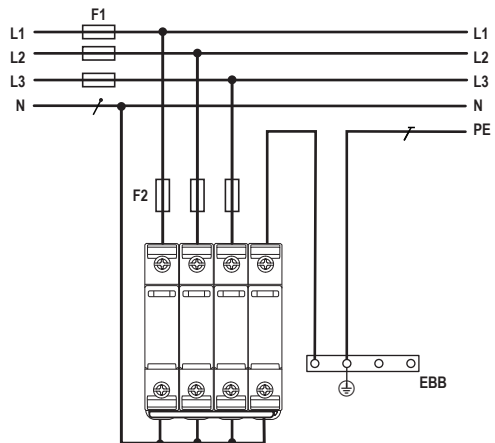
TN-C (Three-phase, 3+0)



TT (Single-phase, 1+1)



TT (Three-phase, 3+1)



/ N Neutral
 / PE Protective Earth
 / PEN Protective Earth & Neutral

Back-up Fuse $I_{scrr} = 50\text{kA}$

$F1 > 250\text{ A gG} \rightarrow F2 = 250\text{ A gG}$
 $F1 \leq 250\text{ A gG} \rightarrow \text{---} F2$

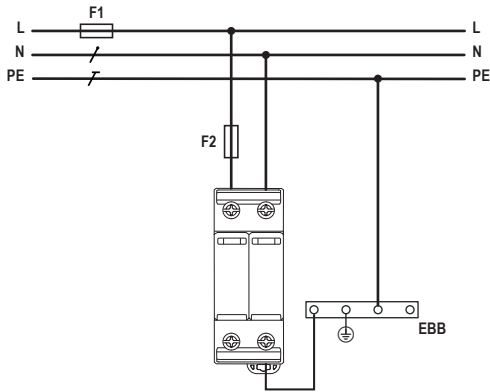
Back-up Fuse $I_{scrr} = 25\text{kA}$

$F1 > 315\text{ A gG} \rightarrow F2 = 315\text{ A gG}$
 $F1 \leq 315\text{ A gG} \rightarrow \text{---} F2$

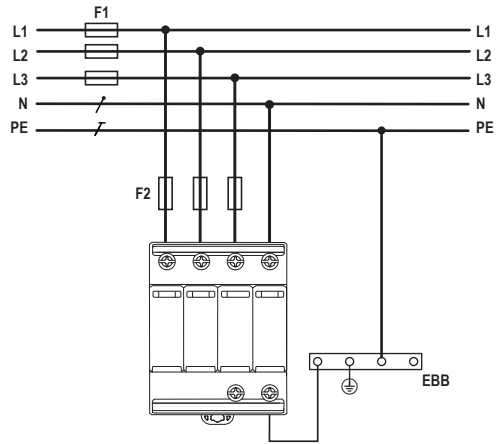
Pluggable Multi-pole SPD Connection Configurations

SafeTec T2 Series

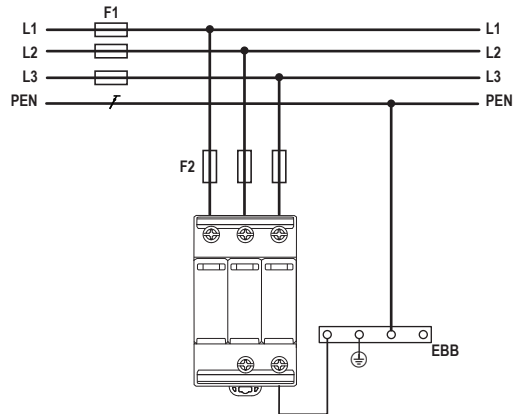
TN-S (Single-phase, 2+0, 1+1)



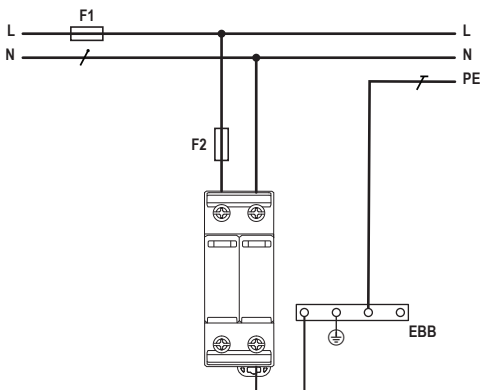
TN-S (Three-phase, 4+0, 3+1)



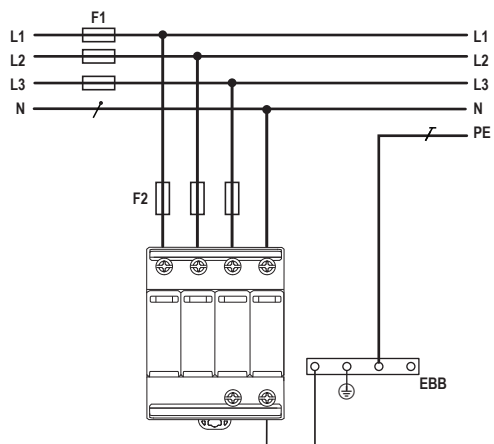
TN-C (Three-phase, 3+0)



TT (Single-phase, 1+1)



TT (Three-phase, 3+1)



/ N Neutral
 / PE Protective Earth
 / PEN Protective Earth & Neutral

Back-up Fuse $I_{scrr} = 50\text{kA}$

— F1 > 250 A gG → — F2 = 250 A gG
 — F1 ≤ 250 A gG → ~~— F2~~

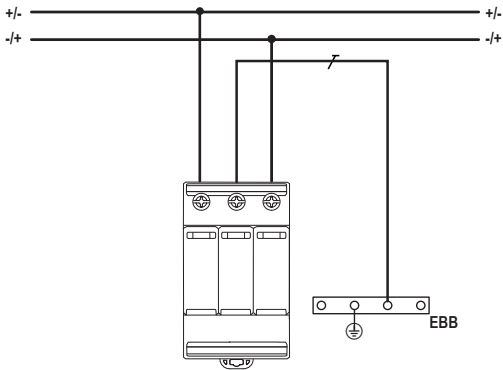
Back-up Fuse $I_{scrr} = 25\text{kA}$

— F1 > 315 A gG → — F2 = 315 A gG
 — F1 ≤ 315 A gG → ~~— F2~~

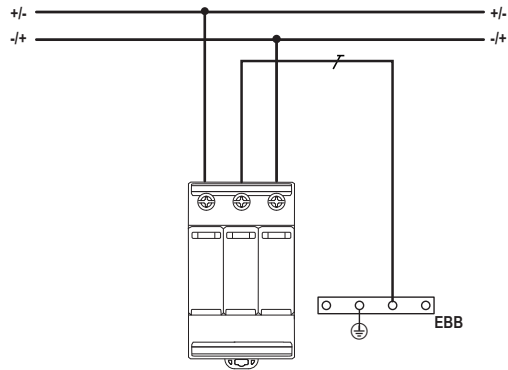
DC Pluggable Multi-pole SPD Connection Configurations

ProTec T1-PV & ProTec T2-PV Series

ProTec T1-PV-3+0



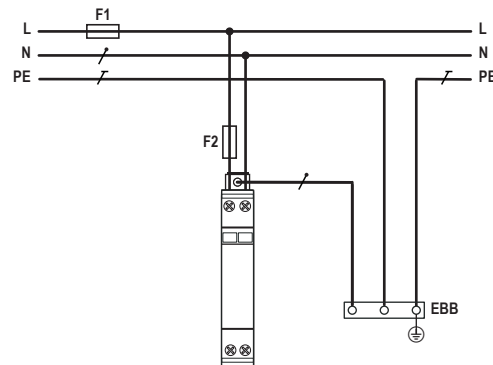
ProTec T2-PV-3+0



- N* Neutral
- PE* Protective Earth
- PEN* Protective Earth & Neutral

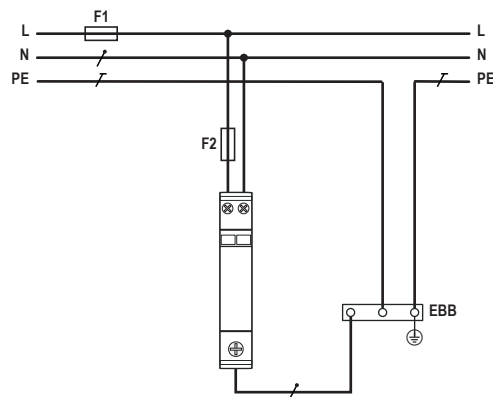
Modular Multi-pole SPD Connection Configuration ProTec DMDR(R) 20 Series

TN-S (Single-phase, 2+0)



Modular Multi-pole SPD Connection Configuration ProTec DMG(R) 20

TN-S (Single-phase, 2+0)



/ N Neutral
/ PE Protective Earth
/ PEN Protective Earth & Neutral

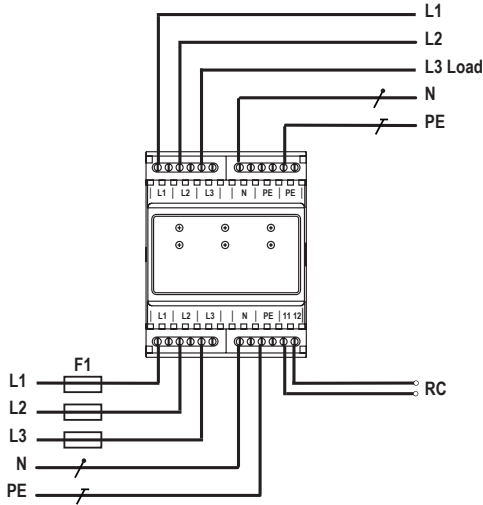
Back-up Fuse

$F1 > 63\text{ A gG}$ → $F2 = 63\text{ A gG}$
 $F1 \leq 63\text{ A gG}$ → ~~$F2$~~

Compact Multi-pole SPD Connection Configuration

ProLed 275

TN-S (Three-phase, 3+1)










/ N Neutral
/ PE Protective Earth
/ PEN Protective Earth & Neutral



Back-up Fuse
— F1 > 16A gG → — F2 = 16A gG
— F1 ≤ 16A gG → ~~— F2~~













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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Compact Single Pole & Multi-pole Surge Protective Devices				
	ProBloc B 12.5/150 (1+0)	56.0500	2 TE	56
	ProBloc BR 12.5/150 (1+0)	56.0501	2 TE	56
	ProBloc B 12.5/275 (1+0)	56.0502	2 TE	56
	ProBloc BR 12.5/275 (1+0)	56.0503	2 TE	56
	ProBloc B 12.5/320 (1+0)	56.0504	2 TE	56
	ProBloc BR 12.5/320 (1+0)	56.0505	2 TE	56
	ProBloc B 12.5/440 (1+0)	56.0508	2 TE	56
	ProBloc BR 12.5/440 (1+0)	56.0509	2 TE	56
	ProBloc B 25/150 (2+0)	56.0512	2 TE	58
	ProBloc BR 25/150 (2+0)	56.0513	2 TE	58
	ProBloc B 25/275 (2+0)	56.0514	2 TE	58
	ProBloc BR 25/275 (2+0)	56.0515	2 TE	58
	ProBloc B 25/320 (2+0)	56.0516	2 TE	58
	ProBloc BR 25/320 (2+0)	56.0517	2 TE	58
	ProBloc B 12.5/440 (1+0)	56.0520	2 TE	58
	ProBloc BR 12.5/440 (1+0)	56.0521	2 TE	58
	ProBloc B 37.5/150 (3+0)	56.0522	3 TE	60
	ProBloc BR 37.5/150 (3+0)	56.0523	3 TE	60
	ProBloc B 37.5/275 (3+0)	56.0524	3 TE	60
	ProBloc BR 37.5/275 (3+0)	56.0525	3 TE	60
	ProBloc B 37.5/320 (3+0)	56.0526	3 TE	60
	ProBloc BR 37.5/320 (3+0)	56.0527	3 TE	60
	ProBloc B 37.5/440 (3+0)	56.0530	3 TE	60
	ProBloc BR 37.5/440 (3+0)	56.0531	3 TE	60
	ProBloc B 50/150 (4+0)	56.0532	4 TE	62
	ProBloc BR 50/150 (4+0)	56.0533	4 TE	62
	ProBloc B 50/275 (4+0)	56.0534	4 TE	62
	ProBloc BR 50/275 (4+0)	56.0535	4 TE	62
	ProBloc B 50/320 (4+0)	56.0536	4 TE	62
	ProBloc BR 50/320 (4+0)	56.0537	4 TE	62
	ProBloc B 50/440 (4+0)	56.0540	4 TE	62
	ProBloc BR 50/440 (4+0)	56.0541	4 TE	62
	ProBloc B 25/150 (1+1)	56.0542	2 TE	64
	ProBloc BR 25/150 (1+1)	56.0543	2 TE	64
	ProBloc B 25/275 (1+1)	56.0544	2 TE	64
	ProBloc BR 25/275 (1+1)	56.0545	2 TE	64
	ProBloc B 25/320 (1+1)	56.0546	2 TE	64
	ProBloc BR 25/320 (1+1)	56.0547	2 TE	64
	ProBloc B 50/275 (3+1)	56.0554	4 TE	66
	ProBloc BR 50/275 (3+1)	56.0555	4 TE	66
	ProBloc B 50/320 (3+1)	56.0556	4 TE	66
	ProBloc BR 50/320 (3+1)	56.0557	4 TE	66
	ProBloc B 25/150 (1+0)	56.0562	2 TE	68
	ProBloc BR 25/150 (1+0)	56.0563	2 TE	68
	ProBloc B 25/275 (1+0)	56.0564	2 TE	68
	ProBloc BR 25/275 (1+0)	56.0565	2 TE	68
	ProBloc B 25/320 (1+0)	56.0566	2 TE	68
	ProBloc BR 25/320 (1+0)	56.0567	2 TE	68
	ProBloc B 25/440 (1+0)	56.0570	2 TE	68
	ProBloc BR 25/440 (1+0)	56.0571	2 TE	68


	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Compact Single Pole & Multi-pole Surge Protective Devices				
<i>(continued)</i>				
	ProBloc B 50/150 (2+0)	56.0572	4 TE	70
	ProBloc BR 50/150 (2+0)	56.0573	4 TE	70
	ProBloc B 50/275 (2+0)	56.0574	4 TE	70
	ProBloc BR 50/275 (2+0)	56.0575	4 TE	70
	ProBloc B 50/320 (2+0)	56.0576	4 TE	70
	ProBloc BR 50/320 (2+0)	56.0577	4 TE	70
	ProBloc B 50/440 (2+0)	56.0580	4 TE	70
	ProBloc BR 50/440 (2+0)	56.0581	4 TE	70
	ProBloc B 75/150 (3+0)	56.0582	6 TE	72
	ProBloc BR 75/150 (3+0)	56.0583	6 TE	72
	ProBloc B 75/275 (3+0)	56.0584	6 TE	72
	ProBloc BR 75/275 (3+0)	56.0585	6 TE	72
	ProBloc B 75/320 (3+0)	56.0586	6 TE	72
	ProBloc BR 75/320 (3+0)	56.0587	6 TE	72
	ProBloc B 75/440 (3+0)	56.0590	6 TE	72
	ProBloc BR 75/440 (3+0)	56.0591	6 TE	72
	ProBloc B 100/150 (4+0)	56.0592	8 TE	74
	ProBloc BR 100/150 (4+0)	56.0593	8 TE	74
	ProBloc B 100/275 (4+0)	56.0594	8 TE	74
	ProBloc BR 100/275 (4+0)	56.0595	8 TE	74
	ProBloc B 100/320 (4+0)	56.0596	8 TE	74
	ProBloc BR 100/320 (4+0)	56.0597	8 TE	74
	ProBloc B 100/440 (4+0)	56.0600	8 TE	74
	ProBloc BR 100/440 (4+0)	56.0601	8 TE	74
	ProBloc B 50/150 (1+1)	56.0602	4 TE	76
	ProBloc BR 50/150 (1+1)	56.0603	4 TE	76
	ProBloc B 50/275 (1+1)	56.0604	4 TE	76
	ProBloc BR 50/275 (1+1)	56.0605	4 TE	76
	ProBloc B 50/320 (1+1)	56.0606	4 TE	76
	ProBloc BR 50/320 (1+1)	56.0607	4 TE	76
	ProBloc B 100/275 (3+1)	56.0614	8 TE	78
	ProBloc BR 100/275 (3+1)	56.0615	8 TE	78
	ProBloc B 100/320 (3+1)	56.0616	8 TE	78
	ProBloc BR 100/320 (3+1)	56.0617	8 TE	78
	ProTec ZP T1H-255-3+0-R	59.0360	3 TE	52
	ProTec ZP T1H-255-3+1-R	59.0361	3 TE	54
	ProTube B 50/255	56.0510	2 TE	80
	ProTube B 100/255	56.0511	2 TE	82

	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Compact Single Pole & Multi-pole Surge Protective Devices				
<i>(continued)</i>				
	SafeBloc B 12.5/150 (1+0) TCG	54.0500	2 TE	84
	SafeBloc BR 12.5/150 (1+0) TCG	54.0501	2 TE	84
	SafeBloc B 12.5/275 (1+0) TCG	54.0502	2 TE	84
	SafeBloc BR 12.5/275 (1+0) TCG	54.0503	2 TE	84
	SafeBloc B 25/150 (2+0) TCG	54.0507	4 TE	86
	SafeBloc BR 25/150 (2+0) TCG	54.0508	4 TE	86
	SafeBloc B 25/275 (2+0) TCG	54.0509	4 TE	86
	SafeBloc BR 25/275 (2+0) TCG	54.0510	4 TE	86
	SafeBloc B 37.5/150 (3+0) TCG	54.0513	6 TE	88
	SafeBloc BR 37.5/150 (3+0) TCG	54.0514	6 TE	88
	SafeBloc B 37.5/275 (3+0) TCG	54.0515	6 TE	88
	SafeBloc BR 37.5/275 (3+0) TCG	54.0516	6 TE	88
	SafeBloc B 50/150 (4+0) TCG	54.0519	8 TE	90
	SafeBloc BR 50/150 (4+0) TCG	54.0520	8 TE	90
	SafeBloc B 50/275 (4+0) TCG	54.0521	8 TE	90
	SafeBloc BR 50/275 (4+0) TCG	54.0522	8 TE	90
	SafeBloc B 25/150 (1+1) TCG	54.0525	4 TE	92
	SafeBloc BR 25/150 (1+1) TCG	54.0526	4 TE	92
	SafeBloc B 25/275 (1+1) TCG	54.0527	4 TE	92
	SafeBloc BR 25/275 (1+1) TCG	54.0528	4 TE	92
	SafeBloc B 50/275 (3+1) TCG	54.0533	8 TE	94
	SafeBloc BR 50/275 (3+1) TCG	54.0534	8 TE	94
	SafeBloc B 25/150 (1+0) TCG	54.0537	2 TE	96
	SafeBloc BR 25/150 (1+0) TCG	54.0538	2 TE	96
	SafeBloc B 25/275 (1+0) TCG	54.0539	2 TE	96
	SafeBloc BR 25/275 (1+0) TCG	54.0540	2 TE	96
	SafeBloc B 50/150 (2+0) TCG	54.0544	4 TE	98
	SafeBloc BR 50/150 (2+0) TCG	54.0545	4 TE	98
	SafeBloc B 50/275 (2+0) TCG	54.0546	4 TE	98
	SafeBloc BR 50/275 (2+0) TCG	54.0547	4 TE	98
	SafeBloc B 75/150 (3+0) TCG	54.0550	6 TE	100
	SafeBloc BR 75/150 (3+0) TCG	54.0551	6 TE	100
	SafeBloc B 75/275 (3+0) TCG	54.0552	6 TE	100
	SafeBloc BR 75/275 (3+0) TCG	54.0553	6 TE	100
	SafeBloc B 100/150 (4+0) TCG	54.0556	8 TE	102
	SafeBloc BR 100/150 (4+0) TCG	54.0557	8 TE	102
	SafeBloc B 100/275 (4+0) TCG	54.0558	8 TE	102
	SafeBloc BR 100/275 (4+0) TCG	54.0559	8 TE	102

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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Compact Single Pole & Multi-pole Surge Protective Devices <i>(continued)</i>				
	SafeBloc B 50/150 (1+1) TCG	54.0562	4 TE	104
	SafeBloc BR 50/150 (1+1) TCG	54.0563	4 TE	104
	SafeBloc B 50/275 (1+1) TCG	54.0564	4 TE	104
	SafeBloc BR 50/275 (1+1) TCG	54.0565	4 TE	104
	SafeBloc B 100/275 (3+1) TCG	54.0570	8 TE	106
	SafeBloc BR 100/275 (3+1) TCG	54.0571	8 TE	106
	SafeTube B 50/255	54.0506	2 TE	108
	SafeTube B 100/255	54.0543	2 TE	110
	SafeBloc B 12.5/750 (1+0) WT TCG	54.0590	2 TE	112
	SafeBloc BR 12.5/750 (1+0) WT TCG	54.0591	2 TE	112
	SafeBloc B 25/750 (1+0) WT TCG	54.0594	4 TE	114
	SafeBloc BR 25/750 (1+0) WT TCG	54.0595	4 TE	114

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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Pluggable Single Pole & Multi-pole Surge Protective Devices				
	ProTec T1-75-1+0	59.0007	1 TE	18
	ProTec T1-75-1+0-R	59.0008	1 TE	18
	ProTec T1-150-1+0	59.0009	1 TE	18
	ProTec T1-150-1+0-R	59.0010	1 TE	18
	ProTec T1-300-1+0	59.0011	1 TE	18
	ProTec T1-300-1+0-R	59.0012	1 TE	18
	ProTec T1-350-1+0	59.0013	1 TE	18
	ProTec T1-350-1+0-R	59.0014	1 TE	18
	ProTec T1-480-1+0	59.0015	1 TE	18
	ProTec T1-480-1+0-R	59.0016	1 TE	18
	ProTec T1-750-1+0	59.0017	1 TE	18
	ProTec T1-750-1+0-R	59.0018	1 TE	18

Class I • Class II • Type 1 • Type 2 • Type 1 CA

	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Pluggable Single Pole & Multi-pole Surge Protective Devices <i>(continued)</i>				
ProTec T1 2+0 (R) 	ProTec T1-75-2+0	59.0349	2 TE	20
	ProTec T1-75-2+0-R	59.0350	2 TE	20
	ProTec T1-150-2+0	59.0019	2 TE	20
	ProTec T1-150-2+0-R	59.0020	2 TE	20
	ProTec T1-300-2+0	59.0021	2 TE	20
	ProTec T1-300-2+0-R	59.0022	2 TE	20
	ProTec T1-350-2+0	59.0023	2 TE	20
	ProTec T1-350-2+0-R	59.0024	2 TE	20
	ProTec T1-480-2+0	59.0025	2 TE	20
	ProTec T1-480-2+0-R	59.0026	2 TE	20
	ProTec T1-750-2+0	59.0027	2 TE	20
	ProTec T1-750-2 +0-R	59.0028	2 TE	20
ProTec T1 3+0 (R) 	ProTec T1-150-3+0	59.0029	3 TE	22
	ProTec T1-150-3+0-R	59.0030	3 TE	22
	ProTec T1-300-3+0	59.0031	3 TE	22
	ProTec T1-300-3+0-R	59.0032	3 TE	22
	ProTec T1-350-3+0	59.0033	3 TE	22
	ProTec T1-350-3+0-R	59.0034	3 TE	22
	ProTec T1-480-3+0	59.0035	3 TE	22
	ProTec T1-480-3+0-R	59.0036	3 TE	22
	ProTec T1-750-3+0	59.0037	3 TE	22
	ProTec T1-750-3 +0-R	59.0038	3 TE	22
ProTec T1 4+0 (R) 	ProTec T1-150-4+0	59.0039	4 TE	24
	ProTec T1-150-4+0-R	59.0040	4 TE	24
	ProTec T1-300-4+0	59.0041	4 TE	24
	ProTec T1-300-4+0-R	59.0042	4 TE	24
	ProTec T1-350-4+0	59.0351	4 TE	24
	ProTec T1-350-4+0-R	59.0352	4 TE	24
	ProTec T1-480-4+0	59.0043	4 TE	24
	ProTec T1-480-4+0-R	59.0044	4 TE	24
ProTec T1 1+1 (R) 	ProTec T1-75-1+1	59.0047	2 TE	26
	ProTec T1-75-1+1-R	59.0048	2 TE	26
	ProTec T1-150-1+1	59.0049	2 TE	26
	ProTec T1-150-1+1-R	59.0050	2 TE	26
	ProTec T1-300-1+1	59.0051	2 TE	26
	ProTec T1-300-1+1-R	59.0052	2 TE	26
	ProTec T1-350-1+1	59.0053	2 TE	26
	ProTec T1-350-1+1-R	59.0054	2 TE	26
ProTec T1 3+1 (R) 	ProTec T1-300-3+1	59.0059	4 TE	28
	ProTec T1-300-3+1-R	59.0060	4 TE	28
	ProTec T1-350-3+1	59.0061	4 TE	28
	ProTec T1-350-3+1-R	59.0062	4 TE	28
ProTec T1-xxx-P	ProTec T1-75-P	59.0001	1 TE plug	18-26
	ProTec T1-150-P	59.0002	1 TE plug	18-26
	ProTec T1-300-P	59.0003	1 TE plug	18-28
	ProTec T1-350-P	59.0004	1 TE plug	18-28
	ProTec T1-480-P	59.0005	1 TE plug	18-24
	ProTec T1-750-P	59.0006	1 TE plug	18-22
ProTec T1H 1+0 (R) 	ProTec T1H-300-1+0	59.0310	1 TE	32
	ProTec T1H-300-1+0-R	59.0311	1 TE	32
ProTec T1H 2+0 (R) 	ProTec T1H-300-2+0	59.0312	2 TE	34
	ProTec T1H-300-2+0-R	59.0313	2 TE	34








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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Pluggable Single Pole & Multi-pole Surge Protective Devices <i>(continued)</i>				
ProTec T1H 3+0 (R)	ProTec T1H-300-3+0	59.0314	3 TE	36
	ProTec T1H-300-3+0-R	59.0315	3 TE	36
ProTec T1H 4+0 (R)	ProTec T1H-300-4+0	59.0316	4 TE	38
	ProTec T1H-300-4+0-R	59.0317	4 TE	38
ProTec T1H 1+1 (R)	ProTec T1H-300-1+1	59.0318	2 TE	40
	ProTec T1H-300-1+1-R	59.0319	2 TE	40
ProTec T1H 3+1 (R)	ProTec T1H-300-3+1	59.0320	4 TE	42
	ProTec T1H-300-3+1-R	59.0321	4 TE	42
ProTec T1H-300-P	ProTec T1H-300-P	59.0308	1 TE plug	32-42
ProTec T1HS 3+0 (R)	ProTec T1HS-300-3+0	59.0304	6 TE	46
	ProTec T1HS-300-3+0-R	59.0305	6 TE	46
ProTec T1HS 3+1 (R)	ProTec T1HS-300-3+1	59.0306	8 TE	48
	ProTec T1HS-300-3+1-R	59.0307	8 TE	48
ProTec T1HS-300-P	ProTec T1HS-300-P	59.0302	1 TE plug	46-48
ProTube T1 0+1	ProTube T1-50-0+1	59.0276	1 TE	30
ProTube T1H 0+1	ProTube T1H-50-0+1	59.0340	1 TE	44
ProTube T1-50-P	ProTube T1-50-P	59.0269	1 TE plug	26-30
ProTube T1H-50-P	ProTube T1H-50-P	59.0309	1 TE plug	40-44
ProTube T1HS-100-P	ProTube T1HS-100-P	59.0303	1 TE plug	48

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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Pluggable Single Pole & Multi-pole Surge Protective Devices				
ProTec T2 1+0 (R) 	ProTec T2-75-1+0	59.0069	1 TE	118
	ProTec T2-75-1+0-R	59.0070	1 TE	118
	ProTec T2-150-1+0	59.0071	1 TE	118
	ProTec T2-150-1+0-R	59.0072	1 TE	118
	ProTec T2-300-1+0	59.0073	1 TE	118
	ProTec T2-300-1+0-R	59.0074	1 TE	118
	ProTec T2-350-1+0	59.0075	1 TE	118
	ProTec T2-350-1+0-R	59.0076	1 TE	118
	ProTec T2-480-1+0	59.0077	1 TE	118
	ProTec T2-480-1+0-R	59.0078	1 TE	118
	ProTec T2-750-1+0	59.0079	1 TE	118
	ProTec T2-750-1+0-R	59.0080	1 TE	118
ProTec T2 2+0 (R) 	ProTec T2-75-2+0	59.0343	2 TE	120
	ProTec T2-75-2+0-R	59.0344	2 TE	120
	ProTec T2-150-2+0	59.0081	2 TE	120
	ProTec T2-150-2+0-R	59.0082	2 TE	120
	ProTec T2-300-2+0	59.0083	2 TE	120
	ProTec T2-300-2+0-R	59.0084	2 TE	120
	ProTec T2-350-2+0	59.0085	2 TE	120
	ProTec T2-350-2+0-R	59.0086	2 TE	120
	ProTec T2-480-2+0	59.0087	2 TE	120
	ProTec T2-480-2+0-R	59.0088	2 TE	120
	ProTec T2-750-2+0	59.0089	2 TE	120
	ProTec T2-750-2+0-R	59.0090	2 TE	120
ProTec T2 3+0 (R) 	ProTec T2-150-3+0	59.0091	3 TE	122
	ProTec T2-150-3+0-R	59.0092	3 TE	122
	ProTec T2-300-3+0	59.0093	3 TE	122
	ProTec T2-300-3+0-R	59.0094	3 TE	122
	ProTec T2-350-3+0	59.0095	3 TE	122
	ProTec T2-350-3+0-R	59.0096	3 TE	122
	ProTec T2-480-3+0	59.0097	3 TE	122
	ProTec T2-480-3+0-R	59.0098	3 TE	122
	ProTec T2-750-3+0	59.0099	3 TE	122
	ProTec T2-750-3+0-R	59.0100	3 TE	122
ProTec T2 4+0 (R) 	ProTec T2-150-4+0	59.0101	4 TE	124
	ProTec T2-150-4+0-R	59.0102	4 TE	124
	ProTec T2-300-4+0	59.0103	4 TE	124
	ProTec T2-300-4+0-R	59.0104	4 TE	124
	ProTec T2-350-4+0	59.0300	4 TE	124
	ProTec T2-350-4+0-R	59.0301	4 TE	124
	ProTec T2-480-4+0	59.0105	4 TE	124
	ProTec T2-480-4+0-R	59.0106	4 TE	124
ProTec T2 1+1 (R) 	ProTec T2-75-1+1	59.0109	2 TE	126
	ProTec T2-75-1+1-R	59.0110	2 TE	126
	ProTec T2-150-1+1	59.0111	2 TE	126
	ProTec T2-150-1+1-R	59.0112	2 TE	126
	ProTec T2-300-1+1	59.0113	2 TE	126
	ProTec T2-300-1+1-R	59.0114	2 TE	126
	ProTec T2-350-1+1	59.0115	2 TE	126
	ProTec T2-350-1+1-R	59.0116	2 TE	126
ProTec T2 3+1 (R) 	ProTec T2-300-3+1	59.0121	4 TE	128
	ProTec T2-300-3+1-R	59.0122	4 TE	128
	ProTec T2-350-3+1	59.0123	4 TE	128
	ProTec T2-350-3+1-R	59.0124	4 TE	128
ProTec T2-xxx-P	ProTec T2-75-P	59.0063	1 TE plug	118-126
	ProTec T2-150-P	59.0064	1 TE plug	118-126
	ProTec T2-300-P	59.0065	1 TE plug	118-128
	ProTec T2-350-P	59.0066	1 TE plug	118-128
	ProTec T2-480-P	59.0067	1 TE plug	118-124
	ProTec T2-750-P	59.0068	1 TE plug	118-124

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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Pluggable Single Pole & Multi-pole Surge Protective Devices <i>(continued)</i>				
	ProTube T2-40-0+1	59.0280	1 TE	130
	ProTube T2-40-0+1-R	59.0336		130
ProTube T2-40-P	ProTube T2-40-P	59.0273	1 TE plug	126-130
	ProTec T2-ADV-75-1+0	59.0208	1 TE	146
	ProTec T2-ADV-75-1+0-R	59.0209	1 TE	146
	ProTec T2-ADV-150-1+0	59.0210	1 TE	146
	ProTec T2-ADV-150-1+0-R	59.0211	1 TE	146
	ProTec T2-ADV-300-1+0	59.0212	1 TE	146
	ProTec T2-ADV-300-1+0-R	59.0213	1 TE	146
	ProTec T2-ADV-350-1+0	59.0214	1 TE	146
	ProTec T2-ADV-350-1+0-R	59.0215	1 TE	146
	ProTec T2-ADV-480-1+0	59.0216	1 TE	146
ProTec T2-ADV-480-1+0-R	59.0217	1 TE	146	
	ProTec T2-ADV-75-2+0	59.0347	2 TE	148
	ProTec T2-ADV-75-2+0-R	59.0348	2 TE	148
	ProTec T2-ADV-150-2+0	59.0220	2 TE	148
	ProTec T2-ADV-150-2+0-R	59.0221	2 TE	148
	ProTec T2-ADV-300-2+0	59.0222	2 TE	148
	ProTec T2-ADV-300-2+0-R	59.0223	2 TE	148
	ProTec T2-ADV-350-2+0	59.0224	2 TE	148
	ProTec T2-ADV-350-2+0-R	59.0225	2 TE	148
	ProTec T2-ADV-480-2+0	59.0226	2 TE	148
ProTec T2-ADV-480-2+0-R	59.0227	2 TE	148	
	ProTec T2-ADV-150-3+0	59.0228	3 TE	150
	ProTec T2-ADV-150-3+0-R	59.0229	3 TE	150
	ProTec T2-ADV-300-3+0	59.0230	3 TE	150
	ProTec T2-ADV-300-3+0-R	59.0231	3 TE	150
	ProTec T2-ADV-350-3+0	59.0232	3 TE	150
	ProTec T2-ADV-350-3+0-R	59.0233	3 TE	150
	ProTec T2-ADV-480-3+0	59.0234	3 TE	150
ProTec T2-ADV-480-3+0-R	59.0235	3 TE	150	
	ProTec T2-ADV-150-4+0	59.0236	4 TE	152
	ProTec T2-ADV-150-4+0-R	59.0237	4 TE	152
	ProTec T2-ADV-300-4+0	59.0238	4 TE	152
	ProTec T2-ADV-300-4+0-R	59.0239	4 TE	152
	ProTec T2-ADV-350-4+0	59.0240	4 TE	152
	ProTec T2-ADV-350-4+0-R	59.0241	4 TE	152
	ProTec T2-ADV-480-4+0	59.0242	4 TE	152
ProTec T2-ADV-480-4+0-R	59.0243	4 TE	152	
	ProTec T2-ADV-75-1+1	59.0244	2 TE	154
	ProTec T2-ADV-75-1+1-R	59.0245	2 TE	154
	ProTec T2-ADV-150-1+1	59.0246	2 TE	154
	ProTec T2-ADV-150-1+1-R	59.0247	2 TE	154
	ProTec T2-ADV-300-1+1	59.0248	2 TE	154
	ProTec T2-ADV-300-1+1-R	59.0249	2 TE	154
	ProTec T2-ADV-480-1+1	59.0250	2 TE	154
ProTec T2-ADV-480-1+1-R	59.0251	2 TE	154	
	ProTec T2-ADV-300-3+1	59.0256	4 TE	156
	ProTec T2-ADV-300-3+1-R	59.0257	4 TE	156
	ProTec T2-ADV-350-3+1	59.0258	4 TE	156
	ProTec T2-ADV-350-3+1-R	59.0259	4 TE	156

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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)	
Pluggable Single Pole & Multi-pole Surge Protective Devices <i>(continued)</i>					
	ProTec T2-ADV-xxx-P	ProTec T2-ADV-75-P	59.0202	1 TE plug	146-154
		ProTec T2-ADV-150-P	59.0203	1 TE plug	146-154
		ProTec T2-ADV-300-P	59.0204	1 TE plug	146-156
		ProTec T2-ADV-350-P	59.0205	1 TE plug	146-156
		ProTec T2-ADV-480-P	59.0206	1 TE plug	146-152
	ProTube T2-ADV-40-P	ProTube T2-ADV-40-P	59.0275	1 TE plug	154-156
ProTec T2H 1+0 (R)		ProTec T2H-300-1+0	59.0324	1 TE	132
		ProTec T2H-300-1+0-R	59.0325	1 TE	132
ProTec T2H 2+0 (R)		ProTec T2H-300-2+0	59.0326	2 TE	134
		ProTec T2H-300-2+0-R	59.0327	2 TE	134
ProTec T2H 3+0 (R)		ProTec T2H-300-3+0	59.0328	3 TE	136
		ProTec T2H-300-3+0-R	59.0329	3 TE	136
ProTec T2H 4+0 (R)		ProTec T2H-300-4+0	59.0330	4 TE	138
		ProTec T2H-300-4+0-R	59.0331	4 E	138
ProTec T2H 1+1 (R)		ProTec T2H-300-1+1	59.0332	2 TE	140
		ProTec T2H-300-1+1-R	59.0333	2 TE	140
ProTec T2H 3+1 (R)		ProTec T2H-300-3+1	59.0334	4 TE	142
		ProTec T2H-300-3+1-R	59.0335	4 TE	142
ProTec T2H-300-P	ProTec T2H-300-P	59.0322	1 TE plug	134-144	
ProTube T2H-40 0+1 (R)		ProTube T2H-40-0+1	59.0341	1 TE	144
		ProTube T2H-40-0+1-R	59.0342	1 TE	144
ProTube T2H-40-P	ProTube T2H-40-P	59.0323	1 TE plug	140-144	

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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Pluggable Single Pole & Multi-pole Surge Protective Devices				
<i>(continued)</i>				
SafeTec T2 1+0 (R) 	SafeTec T2-75-1+0	59.0132	1 TE	158
	SafeTec T2-75-1+0-R	59.0133	1 TE	158
	SafeTec T2-150-1+0	59.0134	1 TE	158
	SafeTec T2-150-1+0-R	59.0135	1 TE	158
	SafeTec T2-300-1+0	59.0136	1 TE	158
	SafeTec T2-300-1+0-R	59.0137	1 TE	158
	SafeTec T2-350-1+0	59.0138	1 TE	158
	SafeTec T2-350-1+0-R	59.0139	1 TE	158
	SafeTec T2-480-1+0	59.0140	1 TE	158
	SafeTec T2-480-1+0-R	59.0141	1 TE	158
	SafeTec T2-550-1+0	59.0142	1 TE	158
	SafeTec T2-550-1+0-R	59.0143	1 TE	158
	SafeTec T2-750-1+0	59.0144	1 TE	158
	SafeTec T2-750-1+0-R	59.0145	1 TE	158
	SafeTec T2-880-1+0	59.0146	1 TE	158
SafeTec T2-880-1+0-R	59.0147	1 TE	158	
SafeTec T2 2+0 (R) 	SafeTec T2-75-2+0	59.0345	2 TE	160
	SafeTec T2-75-2+0-R	59.0346	2 TE	160
	SafeTec T2-150-2+0	59.0148	2 TE	160
	SafeTec T2-150-2+0-R	59.0149	2 TE	160
	SafeTec T2-300-2+0	59.0150	2 TE	160
	SafeTec T2-300-2+0-R	59.0151	2 TE	160
	SafeTec T2-350-2+0	59.0152	2 TE	160
	SafeTec T2-350-2+0-R	59.0153	2 TE	160
	SafeTec T2-480-2+0	59.0154	2 TE	160
	SafeTec T2-480-2+0-R	59.0155	2 TE	160
	SafeTec T2-550-2+0	59.0156	2 TE	160
	SafeTec T2-550-2+0-R	59.0157	2 TE	160
	SafeTec T2-750-2+0	59.0158	2 TE	160
	SafeTec T2-750-2+0-R	59.0159	2 TE	160
	SafeTec T2-880-2+0	59.0160	2 TE	160
SafeTec T2-880-2+0-R	59.0161	2 TE	160	
SafeTec T2 3+0 (R) 	SafeTec T2-150-3+0	59.0162	3 TE	162
	SafeTec T2-150-3+0-R	59.0163	3 TE	162
	SafeTec T2-300-3+0	59.0164	3 TE	162
	SafeTec T2-300-3+0-R	59.0165	3 TE	162
	SafeTec T2-350-3+0	59.0166	3 TE	162
	SafeTec T2-350-3+0-R	59.0167	3 TE	162
	SafeTec T2-480-3+0	59.0168	3 TE	162
	SafeTec T2-480-3+0-R	59.0169	3 TE	162
	SafeTec T2-550-3+0	59.0170	3 TE	162
	SafeTec T2-550-3+0-R	59.0171	3 TE	162
	SafeTec T2-750-3+0	59.0172	3 TE	162
	SafeTec T2-750-3+0-R	59.0173	3 TE	162
	SafeTec T2-880-3+0	59.0174	3 TE	162
	SafeTec T2-880-3+0-R	59.0175	3 TE	162
	SafeTec T2 4+0 (R) 	SafeTec T2-150-4+0	59.0176	4 TE
SafeTec T2-150-4+0-R		59.0177	4 TE	164
SafeTec T2-300-4+0		59.0178	4 TE	164
SafeTec T2-300-4+0-R		59.0179	4 TE	164
SafeTec T2-350-4+0		59.0180	4 TE	164
SafeTec T2-350-4+0-R		59.0181	4 TE	164
SafeTec T2-480-4+0		59.0182	4 TE	164
SafeTec T2-480-4+0-R		59.0183	4 TE	164
SafeTec T2-550-4+0		59.0184	4 TE	164
SafeTec T2-550-4+0-R		59.0185	4 TE	164

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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Pluggable Single Pole & Multi-pole Surge Protective Devices <i>(continued)</i>				
	SafeTec T2-75-1+1	59.0186	2 TE	166
	SafeTec T2-75-1+1-R	59.0187	2 TE	166
	SafeTec T2-150-1+1	59.0188	2 TE	166
	SafeTec T2-150-1+1-R	59.0189	2 TE	166
	SafeTec T2-300-1+1	59.0190	2 TE	166
	SafeTec T2-300-1+1-R	59.0191	2 TE	166
	SafeTec T2-350-1+1	59.0192	2 TE	166
	SafeTec T2-350-1+1-R	59.0193	2 TE	166
	SafeTec T2-300-3+1	59.0198	4 TE	168
	SafeTec T2-300-3+1-R	59.0199	4 TE	168
	SafeTec T2-350-3+1	59.0200	4 TE	168
	SafeTec T2-350-3+1-R	59.0201	4 TE	168
	SafeTec T2-75-P	59.0125	1 TE plug	158-160, 166
	SafeTec T2-150-P	59.0126	1 TE plug	158-166
	SafeTec T2-300-P	59.0127	1 TE plug	158-168
	SafeTec T2-350-P	59.0128	1 TE plug	158-168
	SafeTec T2-480-P	59.0129	1 TE plug	158-164
	SafeTec T2-550-P	59.0299	1 TE plug	158-164
	SafeTec T2-750-P	59.0130	1 TE plug	158-162
	SafeTec T2-880-P	59.0131	1 TE plug	158-162
	SafeTube T2-40-0+1	59.0281	1 TE	170
	SafeTube T2-40-0+1-R	59.0337	1 TE	170
	SafeTube T2-40-P	59.0274	1 TE plug	166-170



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	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
DC Pluggable Multi-pole Surge Protective Devices for PV				
	ProTec T1-1100PV-3+0	59.0285	3 TE	174
	ProTec T1-1100PV-3+0-R	59.0286	3 TE	174
	ProTec T1-1500PV-3+0	59.0289	3 TE	174
	ProTec T1-1500PV-3+0-R	59.0290	3 TE	174
	ProTec T1-550PV-P	59.0283	1 TE plug	174
	ProTec T1-550PV-M-P	59.0284	1 TE plug	174
	ProTec T1-750PV-P	59.0287	1 TE plug	174
	ProTec T1-750PV-M-P	59.0288	1 TE plug	174
	ProTec T2-1100PV-3+0	59.0292	3 TE	176
	ProTec T2-1100PV-3+0-R	59.0293	3 TE	176
	ProTec T2-1500PV-3+0	59.0295	3 TE	176
	ProTec T2-1500PV-3+0-R	59.0296	3 TE	176
	ProTec T2-550PV-P	59.0291	1 TE plug	176
	ProTec T2-750PV-P	59.0294	1 TE plug	176

Class III • Type 3

	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
DC Modular Multi-pole Surge Protective Devices				
	ProTec DMDR 20/24	510 783	1 TE	180
	ProTec DMDR 20/48	510 833	1 TE	180
	ProTec DMDR 20/60	510 834	1 TE	180
	ProTec DMDR 20/120	510 835	1 TE	180
Module ProTec DMDR 20	Module ProTec DMDR 20/24	510 784	1 TE module	180
	Module ProTec DMDR 20/48	510 836	1 TE module	180
	Module ProTec DMDR 20/60	510 837	1 TE module	180
	Module ProTec DMDR 20/120	510 838	1 TE module	180
Modular Multi-pole Surge Protective Devices				
	ProTec DMG 20/320 (2+0)	508.369	1 TE	182
	ProTec DMGR 20/320 (2+0)	508.370	1 TE	182
Module ProTec DMG(R) 20	Module ProTec DMG(R) 20/320	508.371	1 TE module	182
Compact Surge Protective Device				
	ProLed 275 (3+1) 16 A	130 304	4 TE	184
Compact Multi-pole Surge Protective Devices				
	MPE-Mini	121 280		186
	MPE-Mini LED	121 282		186


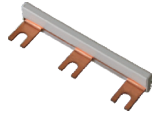

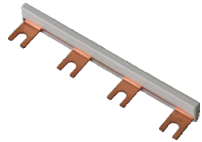
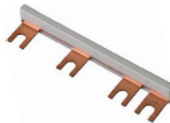




Class II • Type 2

	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Compact Single Pole Surge Protective Device				
	ProTec AQS 40/150	509.210		190
	ProTec AQS 40/275	509.211		190
	ProTec AQS 40/320	509.212		190
	ProTec AQS 40/440	509.213		190
Isolating Spark Gap				
	EPZ 100/350	509 520		194

Surge Protection Connection Accessories

	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Modular Wiring Systems				
ProBar Single Phase Busbars	ProBar 1-2	501 338		198
	ProBar 1-3	501 339		198
	ProBar 1-4	501 340		198
	ProBar 1-5	501 341		198
	ProBar 1-6	501 342		198
	ProBar 1-7	501 343		198
	ProBar 1-8	501 344		198
	ProBar 1-11	501 345		198
	ProBar 2-8	501 346		199
ProBar Two Phase Busbars	ProBar 3-6	501 347		199
	ProBar 3-8	501 348		199
ProBar Three Phase Busbars				
				
				

Surge Protection Connection Accessories

	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
Modular Wiring Systems				
<i>(continued)</i>				
PB Single Phase Busbars	PB 1-(2+0)	501 349		200
				
	PB 1-(3+0)	501 350		200
				
	PB 1-(2+1)	501 351		200
				
	PB 1-(4+0)	501 352		200
				
	PB 1-(3+1)	501 353		200
				
Compact Overhead Line Accessories				
ProTec AQS Accessories	Fixing cable	509 522		201
				
	Fixing hook	509 523		201
				
	PSN	509 524		201
				
	PSI	509 525		201
				

Product Name Index

Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)	Product Name	Order Code	Dimensions DIN 43880	Catalog Page(s)
EPZ 100/350	509 520		194	ProBloc B 75/320 (3+0)	56.0586	6 TE	72
Fixing Cable	509 522		201	ProBloc B 75/440 (3+0)	56.0590	6 TE	72
Fixing Hook	509 523		201	ProBloc BR 100/150 (4+0)	56.0593	8 TE	74
Module ProTec DMDR 20/120	510 838	1 TE module	180	ProBloc BR 100/275 (3+1)	56.0615	8 TE	78
Module ProTec DMDR 20/24	510 784	1 TE module	180	ProBloc BR 100/275 (4+0)	56.0595	8 TE	74
Module ProTec DMDR 20/48	510 836	1 TE module	180	ProBloc BR 100/320 (3+1)	56.0617	8 TE	78
Module ProTec DMDR 20/60	510 837	1 TE module	180	ProBloc BR 100/320 (4+0)	56.0597	8 TE	74
Module ProTec DMG(R) 20/320	508.371	1 TE module	182	ProBloc BR 100/440 (4+0)	56.0601	8 TE	74
MPE-Mini	121 280		186	ProBloc BR 12.5/150 (1+0)	56.0501	2 TE	56
MPE-Mini LED	121 282		186	ProBloc BR 12.5/275 (1+0)	56.0503	2 TE	56
PB 1-(2+0)	501 349		200	ProBloc BR 12.5/320 (1+0)	56.0505	2 TE	56
PB 1-(2+1)	501 351		200	ProBloc BR 12.5/440 (1+0)	56.0509	2 TE	56
PB 1-(3+0)	501 350		200	ProBloc BR 12.5/440 (1+0)	56.0521	2 TE	58
PB 1-(3+1)	501 353		200	ProBloc BR 25/150 (1+0)	56.0563	2 TE	68
PB 1-(4+0)	501 352		200	ProBloc BR 25/150 (1+1)	56.0543	2 TE	64
ProBar 1-11	501 345		198	ProBloc BR 25/150 (2+0)	56.0513	2 TE	58
ProBar 1-2	501 338		198	ProBloc BR 25/275 (1+0)	56.0565	2 TE	68
ProBar 1-3	501 339		198	ProBloc BR 25/275 (1+1)	56.0545	2 TE	64
ProBar 1-4	501 340		198	ProBloc BR 25/275 (2+0)	56.0515	2 TE	58
ProBar 1-5	501 341		198	ProBloc BR 25/320 (1+0)	56.0567	2 TE	68
ProBar 1-6	501 342		198	ProBloc BR 25/320 (1+1)	56.0547	2 TE	64
ProBar 1-7	501 343		198	ProBloc BR 25/320 (2+0)	56.0517	2 TE	58
ProBar 1-8	501 344		198	ProBloc BR 25/440 (1+0)	56.0571	2 TE	68
ProBar 2-8	501 346		199	ProBloc BR 37.5/150 (3+0)	56.0523	3 TE	60
ProBar 3-6	501 347		199	ProBloc BR 37.5/275 (3+0)	56.0525	3 TE	60
ProBar 3-8	501 348		199	ProBloc BR 37.5/320 (3+0)	56.0527	3 TE	60
ProBloc B 100/150 (4+0)	56.0592	8 TE	74	ProBloc BR 37.5/440 (3+0)	56.0531	3 TE	60
ProBloc B 100/275 (3+1)	56.0614	8 TE	78	ProBloc BR 50/150 (1+1)	56.0603	4 TE	76
ProBloc B 100/275 (4+0)	56.0594	8 TE	74	ProBloc BR 50/150 (2+0)	56.0573	4 TE	70
ProBloc B 100/320 (3+1)	56.0616	8 TE	78	ProBloc BR 50/150 (4+0)	56.0533	4 TE	62
ProBloc B 100/320 (4+0)	56.0596	8 TE	74	ProBloc BR 50/275 (1+1)	56.0605	4 TE	76
ProBloc B 100/440 (4+0)	56.0600	8 TE	74	ProBloc BR 50/275 (2+0)	56.0575	4 TE	70
ProBloc B 12.5/150 (1+0)	56.0500	2 TE	56	ProBloc BR 50/275 (3+1)	56.0555	4 TE	66
ProBloc B 12.5/275 (1+0)	56.0502	2 TE	56	ProBloc BR 50/275 (4+0)	56.0535	4 TE	62
ProBloc B 12.5/320 (1+0)	56.0504	2 TE	56	ProBloc BR 50/320 (1+1)	56.0607	4 TE	76
ProBloc B 12.5/440 (1+0)	56.0508	2 TE	56	ProBloc BR 50/320 (2+0)	56.0577	4 TE	70
ProBloc B 12.5/440 (1+0)	56.0520	2 TE	58	ProBloc BR 50/320 (3+1)	56.0557	4 TE	66
ProBloc B 25/150 (1+0)	56.0562	2 TE	68	ProBloc BR 50/320 (4+0)	56.0537	4 TE	62
ProBloc B 25/150 (1+1)	56.0542	2 TE	64	ProBloc BR 50/440 (2+0)	56.0581	4 TE	70
ProBloc B 25/150 (2+0)	56.0512	2 TE	58	ProBloc BR 50/440 (4+0)	56.0541	4 TE	62
ProBloc B 25/275 (1+0)	56.0564	2 TE	68	ProBloc BR 75/150 (3+0)	56.0583	6 TE	72
ProBloc B 25/275 (1+1)	56.0544	2 TE	64	ProBloc BR 75/275 (3+0)	56.0585	6 TE	72
ProBloc B 25/275 (2+0)	56.0514	2 TE	58	ProBloc BR 75/320 (3+0)	56.0587	6 TE	72
ProBloc B 25/320 (1+0)	56.0566	2 TE	68	ProBloc BR 75/440 (3+0)	56.0591	6 TE	72
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ProBloc B 37.5/440 (3+0)	56.0530	3 TE	60	ProTec DMDR 20/24	510 783	1 TE	180
ProBloc B 50/150 (1+1)	56.0602	4 TE	76	ProTec DMDR 20/48	510 833	1 TE	180
ProBloc B 50/150 (2+0)	56.0572	4 TE	70	ProTec DMDR 20/60	510 834	1 TE	180
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ProTec T2-ADV-350-3+0-R	59.0233	3 TE	150	SafeBloc B 25/275 (2+0) TCG	54.0509	4 TE	86
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ProTec T2-ADV-350-3+1-R	59.0259	4 TE	156	SafeBloc B 37.5/150 (3+0) TCG	54.0513	6 TE	88
ProTec T2-ADV-350-4+0	59.0240	4 TE	152	SafeBloc B 37.5/275 (3+0) TCG	54.0515	6 TE	88
ProTec T2-ADV-350-4+0-R	59.0241	4 TE	152	SafeBloc B 50/150 (1+1) TCG	54.0562	4 TE	104
ProTec T2-ADV-350-P	59.0205	1 TE plug	146-156	SafeBloc B 50/150 (2+0) TCG	54.0544	4 TE	98
ProTec T2-ADV-480-1+0	59.0216	1 TE	146	SafeBloc B 50/150 (4+0) TCG	54.0519	8 TE	90
ProTec T2-ADV-480-1+0-R	59.0217	1 TE	146	SafeBloc B 50/275 (1+1) TCG	54.0564	4 TE	104
ProTec T2-ADV-480-1+1	59.0250	2 TE	154	SafeBloc B 50/275 (2+0) TCG	54.0546	4 TE	98
ProTec T2-ADV-480-1+1-R	59.0251	2 TE	154	SafeBloc B 50/275 (3+1) TCG	54.0533	8 TE	94
ProTec T2-ADV-480-2+0	59.0226	2 TE	148	SafeBloc B 50/275 (4+0) TCG	54.0521	8 TE	90
ProTec T2-ADV-480-2+0-R	59.0227	2 TE	148	SafeBloc B 75/150 (3+0) TCG	54.0550	6 TE	100
ProTec T2-ADV-480-3+0	59.0234	3 TE	150	SafeBloc B 75/275 (3+0) TCG	54.0552	6 TE	100
ProTec T2-ADV-480-3+0-R	59.0235	3 TE	150	SafeBloc BR 100/150 (4+0) TCG	54.0557	8 TE	102
ProTec T2-ADV-480-4+0	59.0242	4 TE	152	SafeBloc BR 100/275 (3+1) TCG	54.0571	8 TE	106
ProTec T2-ADV-480-4+0-R	59.0243	4 TE	152	SafeBloc BR 100/275 (4+0) TCG	54.0559	8 TE	102
ProTec T2-ADV-480-P	59.0206	1 TE plug	146-152	SafeBloc BR 12.5/150 (1+0) TCG	54.0501	2 TE	84
ProTec T2-ADV-75-1+0	59.0208	1 TE	146	SafeBloc BR 12.5/275 (1+0) TCG	54.0503	2 TE	84
ProTec T2-ADV-75-1+0-R	59.0209	1 TE	146	SafeBloc BR 12.5/750 (1+0) WT TCG	54.0591	2 TE	112
ProTec T2-ADV-75-1+1	59.0244	2 TE	154	SafeBloc BR 25/150 (1+0) TCG	54.0538	2 TE	96
ProTec T2-ADV-75-1+1-R	59.0245	2 TE	154	SafeBloc BR 25/150 (1+1) TCG	54.0526	4 TE	92
ProTec T2-ADV-75-2+0	59.0347	2 TE	148	SafeBloc BR 25/150 (2+0) TCG	54.0508	4 TE	86
ProTec T2-ADV-75-2+0-R	59.0348	2 TE	148	SafeBloc BR 25/275 (1+0) TCG	54.0540	2 TE	96
ProTec T2-ADV-75-P	59.0202	1 TE plug	146-154	SafeBloc BR 25/275 (1+1) TCG	54.0528	4 TE	92
ProTec T2H-300-1+0	59.0324	1 TE	132	SafeBloc BR 25/275 (2+0) TCG	54.0510	4 TE	86
ProTec T2H-300-1+0-R	59.0325	1 TE	132	SafeBloc BR 25/750 (1+0) WT TCG	54.0595	4 TE	114

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SafeBloc BR 37.5/150 (3+0) TCG	54.0514	6 TE	88	SafeTec T2-350-4+0-R	59.0181	4 TE	164
SafeBloc BR 37.5/275 (3+0) TCG	54.0516	6 TE	88	SafeTec T2-350-P	59.0128	1 TE plug	158-168
SafeBloc BR 50/150 (1+1) TCG	54.0563	4 TE	104	SafeTec T2-480-1+0	59.0140	1 TE	158
SafeBloc BR 50/150 (2+0) TCG	54.0545	4 TE	98	SafeTec T2-480-1+0-R	59.0141	1 TE	158
SafeBloc BR 50/150 (4+0) TCG	54.0520	8 TE	90	SafeTec T2-480-2+0	59.0154	2 TE	160
SafeBloc BR 50/275 (1+1) TCG	54.0565	4 TE	104	SafeTec T2-480-2+0-R	59.0155	2 TE	160
SafeBloc BR 50/275 (2+0) TCG	54.0547	4 TE	98	SafeTec T2-480-3+0	59.0168	3 TE	162
SafeBloc BR 50/275 (3+1) TCG	54.0534	8 TE	94	SafeTec T2-480-3+0-R	59.0169	3 TE	162
SafeBloc BR 50/275 (4+0) TCG	54.0522	8 TE	90	SafeTec T2-480-4+0	59.0182	4 TE	164
SafeBloc BR 75/150 (3+0) TCG	54.0551	6 TE	100	SafeTec T2-480-4+0-R	59.0183	4 TE	164
SafeBloc BR 75/275 (3+0) TCG	54.0553	6 TE	100	SafeTec T2-480-P	59.0129	1 TE plug	158-164
SafeTec T2-150-1+0	59.0134	1 TE	158	SafeTec T2-550-1+0	59.0142	1 TE	158
SafeTec T2-150-1+0-R	59.0135	1 TE	158	SafeTec T2-550-1+0-R	59.0143	1 TE	158
SafeTec T2-150-1+1	59.0188	2 TE	166	SafeTec T2-550-2+0	59.0156	2 TE	160
SafeTec T2-150-1+1-R	59.0189	2 TE	166	SafeTec T2-550-2+0-R	59.0157	2 TE	160
SafeTec T2-150-2+0	59.0148	2 TE	160	SafeTec T2-550-3+0	59.0170	3 TE	162
SafeTec T2-150-2+0-R	59.0149	2 TE	160	SafeTec T2-550-3+0-R	59.0171	3 TE	162
SafeTec T2-150-3+0	59.0162	3 TE	162	SafeTec T2-550-4+0	59.0184	4 TE	164
SafeTec T2-150-3+0-R	59.0163	3 TE	162	SafeTec T2-550-4+0-R	59.0185	4 TE	164
SafeTec T2-150-4+0	59.0176	4 TE	164	SafeTec T2-550-P	59.0299	1 TE plug	158-164
SafeTec T2-150-4+0-R	59.0177	4 TE	164	SafeTec T2-75-1+0	59.0132	1 TE	158
SafeTec T2-150-P	59.0126	1 TE plug	158-166	SafeTec T2-75-1+0-R	59.0133	1 TE	158
SafeTec T2-300-1+0	59.0136	1 TE	158	SafeTec T2-75-1+1	59.0186	2 TE	166
SafeTec T2-300-1+0-R	59.0137	1 TE	158	SafeTec T2-75-1+1-R	59.0187	2 TE	166
SafeTec T2-300-1+1	59.0190	2 TE	166	SafeTec T2-75-2+0	59.0345	2 TE	160
SafeTec T2-300-1+1-R	59.0191	2 TE	166	SafeTec T2-75-2+0-R	59.0346	2 TE	160
SafeTec T2-300-2+0	59.0150	2 TE	160	SafeTec T2-75-P	59.0125	1 TE plug	158-160 & 166
SafeTec T2-300-2+0-R	59.0151	2 TE	160	SafeTec T2-750-1+0	59.0144	1 TE	158
SafeTec T2-300-3+0	59.0164	3 TE	162	SafeTec T2-750-1+0-R	59.0145	1 TE	158
SafeTec T2-300-3+0-R	59.0165	3 TE	162	SafeTec T2-750-2+0	59.0158	2 TE	160
SafeTec T2-300-3+1	59.0198	4 TE	168	SafeTec T2-750-2+0-R	59.0159	2 TE	160
SafeTec T2-300-3+1-R	59.0199	4 TE	168	SafeTec T2-750-3+0	59.0172	3 TE	162
SafeTec T2-300-4+0	59.0178	4 TE	164	SafeTec T2-750-3+0-R	59.0173	3 TE	162
SafeTec T2-300-4+0-R	59.0179	4 TE	164	SafeTec T2-750-P	59.0130	1 TE plug	158-162
SafeTec T2-300-P	59.0127	1 TE plug	158-168	SafeTec T2-880-1+0	59.0146	1 TE	158
SafeTec T2-350-1+0	59.0138	1 TE	158	SafeTec T2-880-1+0-R	59.0147	1 TE	158
SafeTec T2-350-1+0-R	59.0139	1 TE	158	SafeTec T2-880-2+0	59.0160	2 TE	160
SafeTec T2-350-1+1	59.0192	2 TE	166	SafeTec T2-880-2+0-R	59.0161	2 TE	160
SafeTec T2-350-1+1-R	59.0193	2 TE	166	SafeTec T2-880-3+0	59.0174	3 TE	162
SafeTec T2-350-2+0	59.0152	2 TE	160	SafeTec T2-880-3+0-R	59.0175	3 TE	162
SafeTec T2-350-2+0-R	59.0153	2 TE	160	SafeTec T2-880-P	59.0131	1 TE plug	158-162
SafeTec T2-350-3+0	59.0166	3 TE	162	SafeTube B 100/255	54.0543	2 TE	110
SafeTec T2-350-3+0-R	59.0167	3 TE	162	SafeTube B 50/255	54.0506	2 TE	108
SafeTec T2-350-3+1	59.0200	4 TE	168	SafeTube T2-40-0+1	59.0281	1 TE	170
SafeTec T2-350-3+1-R	59.0201	4 TE	168	SafeTube T2-40-0+1-R	59.0337	1 TE	170
SafeTec T2-350-4+0	59.0180	4 TE	164	SafeTube T2-40-P	59.0274	1 TE plug	166-170

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121 280	MPE-Mini		186	54.0543	SafeTube B 100/255	2 TE	110
121 282	MPE-Mini LED		186	54.0544	SafeBloc B 50/150 (2+0) TCG	4 TE	98
130 304	ProLed 275 (3+1) 16 A	4 TE	184	54.0545	SafeBloc BR 50/150 (2+0) TCG	4 TE	98
501 338	ProBar 1-2		198	54.0546	SafeBloc B 50/275 (2+0) TCG	4 TE	98
501 339	ProBar 1-3		198	54.0547	SafeBloc BR 50/275 (2+0) TCG	4 TE	98
501 340	ProBar 1-4		198	54.0550	SafeBloc B 75/150 (3+0) TCG	6 TE	100
501 341	ProBar 1-5		198	54.0551	SafeBloc BR 75/150 (3+0) TCG	6 TE	100
501 342	ProBar 1-6		198	54.0552	SafeBloc B 75/275 (3+0) TCG	6 TE	100
501 343	ProBar 1-7		198	54.0553	SafeBloc BR 75/275 (3+0) TCG	6 TE	100
501 344	ProBar 1-8		198	54.0556	SafeBloc B 100/150 (4+0) TCG	8 TE	102
501 345	ProBar 1-11		198	54.0557	SafeBloc BR 100/150 (4+0) TCG	8 TE	102
501 346	ProBar 2-8		199	54.0558	SafeBloc B 100/275 (4+0) TCG	8 TE	102
501 347	ProBar 3-6		199	54.0559	SafeBloc BR 100/275 (4+0) TCG	8 TE	102
501 348	ProBar 3-8		199	54.0562	SafeBloc B 50/150 (1+1) TCG	4 TE	104
501 349	PB 1-(2+0)		200	54.0563	SafeBloc BR 50/150 (1+1) TCG	4 TE	104
501 350	PB 1-(3+0)		200	54.0564	SafeBloc B 50/275 (1+1) TCG	4 TE	104
501 351	PB 1-(2+1)		200	54.0565	SafeBloc BR 50/275 (1+1) TCG	4 TE	104
501 352	PB 1-(4+0)		200	54.0570	SafeBloc B 100/275 (3+1) TCG	8 TE	106
501 353	PB 1-(3+1)		200	54.0571	SafeBloc BR 100/275 (3+1) TCG	8 TE	106
508.369	ProTec DMG 20/320 (2+0)	1 TE	182	54.0590	SafeBloc B 12.5/750 (1+0) WT TCG	2 TE	112
508.370	ProTec DMGR 20/320 (2+0)	1 TE	182	54.0591	SafeBloc BR 12.5/750 (1+0) WT TCG	2 TE	112
508.371	Module ProTec DMG(R) 20/320	1 TE module	182	54.0594	SafeBloc B 25/750 (1+0) WT TCG	4 TE	114
509.210	ProTec AQS 40/150		190	54.0595	SafeBloc BR 25/750 (1+0) WT TCG	4 TE	114
509.211	ProTec AQS 40/275		190	56.0500	ProBloc B 12.5/150 (1+0)	2 TE	56
509.212	ProTec AQS 40/320		190	56.0501	ProBloc BR 12.5/150 (1+0)	2 TE	56
509.213	ProTec AQS 40/440		190	56.0502	ProBloc B 12.5/275 (1+0)	2 TE	56
509 520	EPZ 100/350		194	56.0503	ProBloc BR 12.5/275 (1+0)	2 TE	56
509 522	Fixing Cable		201	56.0504	ProBloc B 12.5/320 (1+0)	2 TE	56
509 523	Fixing Hook		201	56.0505	ProBloc BR 12.5/320 (1+0)	2 TE	56
509 524	PSN		201	56.0508	ProBloc B 12.5/440 (1+0)	2 TE	56
509 525	PSI		201	56.0509	ProBloc BR 12.5/440 (1+0)	2 TE	56
510 783	ProTec DMDR 20/24	1 TE	180	56.0510	ProTube B 50/255	2 TE	80
510 784	Module ProTec DMDR 20/24	1 TE module	180	56.0511	ProTube B 100/255	2 TE	82
510 833	ProTec DMDR 20/48	1 TE	180	56.0512	ProBloc B 25/150 (2+0)	2 TE	58
510 834	ProTec DMDR 20/60	1 TE	180	56.0513	ProBloc BR 25/150 (2+0)	2 TE	58
510 835	ProTec DMDR 20/120	1 TE	180	56.0514	ProBloc B 25/275 (2+0)	2 TE	58
510 836	Module ProTec DMDR 20/48	1 TE module	180	56.0515	ProBloc BR 25/275 (2+0)	2 TE	58
510 837	Module ProTec DMDR 20/60	1 TE module	180	56.0516	ProBloc B 25/320 (2+0)	2 TE	58
510 838	Module ProTec DMDR 20/120	1 TE module	180	56.0517	ProBloc BR 25/320 (2+0)	2 TE	58
54.0500	SafeBloc B 12.5/150 (1+0) TCG	2 TE	84	56.0520	ProBloc B 12.5/440 (1+0)	2 TE	58
54.0501	SafeBloc BR 12.5/150 (1+0) TCG	2 TE	84	56.0521	ProBloc BR 12.5/440 (1+0)	2 TE	58
54.0502	SafeBloc B 12.5/275 (1+0) TCG	2 TE	84	56.0522	ProBloc B 37.5/150 (3+0)	3 TE	60
54.0503	SafeBloc BR 12.5/275 (1+0) TCG	2 TE	84	56.0523	ProBloc BR 37.5/150 (3+0)	3 TE	60
54.0506	SafeTube B 50/255	2 TE	108	56.0524	ProBloc B 37.5/275 (3+0)	3 TE	60
54.0507	SafeBloc B 25/150 (2+0) TCG	4 TE	86	56.0525	ProBloc BR 37.5/275 (3+0)	3 TE	60
54.0508	SafeBloc BR 25/150 (2+0) TCG	4 TE	86	56.0526	ProBloc B 37.5/320 (3+0)	3 TE	60
54.0509	SafeBloc B 25/275 (2+0) TCG	4 TE	86	56.0527	ProBloc BR 37.5/320 (3+0)	3 TE	60
54.0510	SafeBloc BR 25/275 (2+0) TCG	4 TE	86	56.0530	ProBloc B 37.5/440 (3+0)	3 TE	60
54.0513	SafeBloc B 37.5/150 (3+0) TCG	6 TE	88	56.0531	ProBloc BR 37.5/440 (3+0)	3 TE	60
54.0514	SafeBloc BR 37.5/150 (3+0) TCG	6 TE	88	56.0532	ProBloc B 50/150 (4+0)	4 TE	62
54.0515	SafeBloc B 37.5/275 (3+0) TCG	6 TE	88	56.0533	ProBloc BR 50/150 (4+0)	4 TE	62
54.0516	SafeBloc BR 37.5/275 (3+0) TCG	6 TE	88	56.0534	ProBloc B 50/275 (4+0)	4 TE	62
54.0519	SafeBloc B 50/150 (4+0) TCG	8 TE	90	56.0535	ProBloc BR 50/275 (4+0)	4 TE	62
54.0520	SafeBloc BR 50/150 (4+0) TCG	8 TE	90	56.0536	ProBloc B 50/320 (4+0)	4 TE	62
54.0521	SafeBloc B 50/275 (4+0) TCG	8 TE	90	56.0537	ProBloc BR 50/320 (4+0)	4 TE	62
54.0522	SafeBloc BR 50/275 (4+0) TCG	8 TE	90	56.0540	ProBloc B 50/440 (4+0)	4 TE	62
54.0525	SafeBloc B 25/150 (1+1) TCG	4 TE	92	56.0541	ProBloc BR 50/440 (4+0)	4 TE	62
54.0526	SafeBloc BR 25/150 (1+1) TCG	4 TE	92	56.0542	ProBloc B 25/150 (1+1)	2 TE	64
54.0527	SafeBloc B 25/275 (1+1) TCG	4 TE	92	56.0543	ProBloc BR 25/150 (1+1)	2 TE	64
54.0528	SafeBloc BR 25/275 (1+1) TCG	4 TE	92	56.0544	ProBloc B 25/275 (1+1)	2 TE	64
54.0533	SafeBloc B 50/275 (3+1) TCG	8 TE	94	56.0545	ProBloc BR 25/275 (1+1)	2 TE	64
54.0534	SafeBloc BR 50/275 (3+1) TCG	8 TE	94	56.0546	ProBloc B 25/320 (1+1)	2 TE	64
54.0537	SafeBloc B 25/150 (1+0) TCG	2 TE	96	56.0547	ProBloc BR 25/320 (1+1)	2 TE	64
54.0538	SafeBloc BR 25/150 (1+0) TCG	2 TE	96	56.0554	ProBloc B 50/275 (3+1)	4 TE	66
54.0539	SafeBloc B 25/275 (1+0) TCG	2 TE	96	56.0555	ProBloc BR 50/275 (3+1)	4 TE	66
54.0540	SafeBloc BR 25/275 (1+0) TCG	2 TE	96	56.0556	ProBloc B 50/320 (3+1)	4 TE	66

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56.0557	ProBloc BR 50/320 (3+1)	4 TE	66	59.0024	ProTec T1-350-2+0-R	2 TE	20
56.0562	ProBloc B 25/150 (1+0)	2 TE	68	59.0025	ProTec T1-480-2+0	2 TE	20
56.0563	ProBloc BR 25/150 (1+0)	2 TE	68	59.0026	ProTec T1-480-2+0-R	2 TE	20
56.0564	ProBloc B 25/275 (1+0)	2 TE	68	59.0027	ProTec T1-750-2+0	2 TE	20
56.0565	ProBloc BR 25/275 (1+0)	2 TE	68	59.0028	ProTec T1-750-2 +0-R	2 TE	20
56.0566	ProBloc B 25/320 (1+0)	2 TE	68	59.0029	ProTec T1-150-3+0	3 TE	22
56.0567	ProBloc BR 25/320 (1+0)	2 TE	68	59.0030	ProTec T1-150-3+0-R	3 TE	22
56.0570	ProBloc B 25/440 (1+0)	2 TE	68	59.0031	ProTec T1-300-3+0	3 TE	22
56.0571	ProBloc BR 25/440 (1+0)	2 TE	68	59.0032	ProTec T1-300-3+0-R	3 TE	22
56.0572	ProBloc B 50/150 (2+0)	4 TE	70	59.0033	ProTec T1-350-3+0	3 TE	22
56.0573	ProBloc BR 50/150 (2+0)	4 TE	70	59.0034	ProTec T1-350-3+0-R	3 TE	22
56.0574	ProBloc B 50/275 (2+0)	4 TE	70	59.0035	ProTec T1-480-3+0	3 TE	22
56.0575	ProBloc BR 50/275 (2+0)	4 TE	70	59.0036	ProTec T1-480-3+0-R	3 TE	22
56.0576	ProBloc B 50/320 (2+0)	4 TE	70	59.0037	ProTec T1-750-3+0	3 TE	22
56.0577	ProBloc BR 50/320 (2+0)	4 TE	70	59.0038	ProTec T1-750-3 +0-R	3 TE	22
56.0580	ProBloc B 50/440 (2+0)	4 TE	70	59.0039	ProTec T1-150-4+0	4 TE	24
56.0581	ProBloc BR 50/440 (2+0)	4 TE	70	59.0040	ProTec T1-150-4+0-R	4 TE	24
56.0582	ProBloc B 75/150 (3+0)	6 TE	72	59.0041	ProTec T1-300-4+0	4 TE	24
56.0583	ProBloc BR 75/150 (3+0)	6 TE	72	59.0042	ProTec T1-300-4+0-R	4 TE	24
56.0584	ProBloc B 75/275 (3+0)	6 TE	72	59.0043	ProTec T1-480-4+0	4 TE	24
56.0585	ProBloc BR 75/275 (3+0)	6 TE	72	59.0044	ProTec T1-480-4+0-R	4 TE	24
56.0586	ProBloc B 75/320 (3+0)	6 TE	72	59.0047	ProTec T1-75-1+1	2 TE	26
56.0587	ProBloc BR 75/320 (3+0)	6 TE	72	59.0048	ProTec T1-75-1+1-R	2 TE	26
56.0590	ProBloc B 75/440 (3+0)	6 TE	72	59.0049	ProTec T1-150-1+1	2 TE	26
56.0591	ProBloc BR 75/440 (3+0)	6 TE	72	59.0050	ProTec T1-150-1+1-R	2 TE	26
56.0592	ProBloc B 100/150 (4+0)	8 TE	74	59.0051	ProTec T1-300-1+1	2 TE	26
56.0593	ProBloc BR 100/150 (4+0)	8 TE	74	59.0052	ProTec T1-300-1+1-R	2 TE	26
56.0594	ProBloc B 100/275 (4+0)	8 TE	74	59.0053	ProTec T1-350-1+1	2 TE	26
56.0595	ProBloc BR 100/275 (4+0)	8 TE	74	59.0054	ProTec T1-350-1+1-R	2 TE	26
56.0596	ProBloc B 100/320 (4+0)	8 TE	74	59.0059	ProTec T1-300-3+1	4 TE	28
56.0597	ProBloc BR 100/320 (4+0)	8 TE	74	59.0060	ProTec T1-300-3+1-R	4 TE	28
56.0600	ProBloc B 100/440 (4+0)	8 TE	74	59.0061	ProTec T1-350-3+1	4 TE	28
56.0601	ProBloc BR 100/440 (4+0)	8 TE	74	59.0062	ProTec T1-350-3+1-R	4 TE	28
56.0602	ProBloc B 50/150 (1+1)	4 TE	76	59.0063	ProTec T2-75-P	1 TE plug	118-126
56.0603	ProBloc BR 50/150 (1+1)	4 TE	76	59.0064	ProTec T2-150-P	1 TE plug	118-126
56.0604	ProBloc B 50/275 (1+1)	4 TE	76	59.0065	ProTec T2-300-P	1 TE plug	118-128
56.0605	ProBloc BR 50/275 (1+1)	4 TE	76	59.0066	ProTec T2-350-P	1 TE plug	118-128
56.0606	ProBloc B 50/320 (1+1)	4 TE	76	59.0067	ProTec T2-480-P	1 TE plug	118-124
56.0607	ProBloc BR 50/320 (1+1)	4 TE	76	59.0068	ProTec T2-750-P	1 TE plug	118-124
56.0614	ProBloc B 100/275 (3+1)	8 TE	78	59.0069	ProTec T2-75-1+0	1 TE	118
56.0615	ProBloc BR 100/275 (3+1)	8 TE	78	59.0070	ProTec T2-75-1+0-R	1 TE	118
56.0616	ProBloc B 100/320 (3+1)	8 TE	78	59.0071	ProTec T2-150-1+0	1 TE	118
56.0617	ProBloc BR 100/320 (3+1)	8 TE	78	59.0072	ProTec T2-150-1+0-R	1 TE	118
59.0001	ProTec T1-75-P	1 TE plug	18-26	59.0073	ProTec T2-300-1+0	1 TE	118
59.0002	ProTec T1-150-P	1 TE plug	18-26	59.0074	ProTec T2-300-1+0-R	1 TE	118
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59.0005	ProTec T1-480-P	1 TE plug	18-24	59.0077	ProTec T2-480-1+0	1 TE	118
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59.0012	ProTec T1-300-1+0-R	1 TE	18	59.0084	ProTec T2-300-2+0-R	2 TE	120
59.0013	ProTec T1-350-1+0	1 TE	18	59.0085	ProTec T2-350-2+0	2 TE	120
59.0014	ProTec T1-350-1+0-R	1 TE	18	59.0086	ProTec T2-350-2+0-R	2 TE	120
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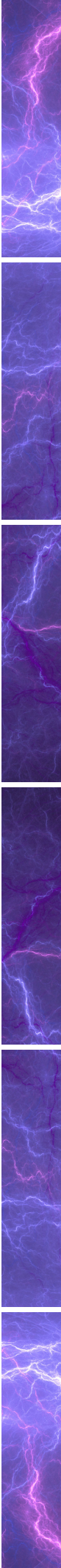
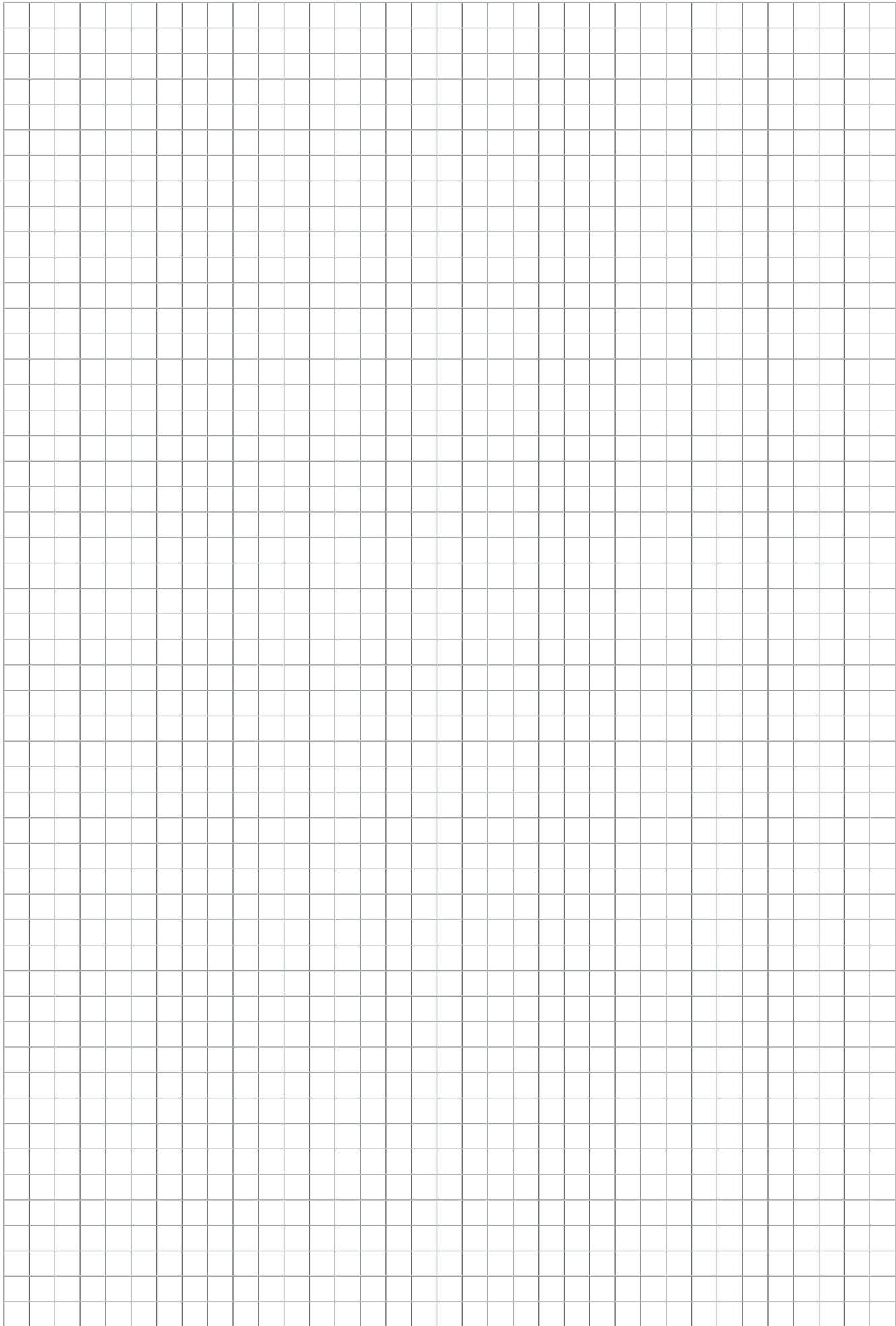
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59.0116	ProTec T2-350-1+1-R	2 TE	126	59.0185	SafeTec T2-550-4+0-R	4 TE	164
59.0121	ProTec T2-300-3+1	4 TE	128	59.0186	SafeTec T2-75-1+1	2 TE	166
59.0122	ProTec T2-300-3+1-R	4 TE	128	59.0187	SafeTec T2-75-1+1-R	2 TE	166
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59.0145	SafeTec T2-750-1+0-R	1 TE	158	59.0215	ProTec T2-ADV-350-1+0-R	1 TE	146
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59.0158	SafeTec T2-750-2+0	2 TE	160	59.0230	ProTec T2-ADV-300-3+0	3 TE	150
59.0159	SafeTec T2-750-2+0-R	2 TE	160	59.0231	ProTec T2-ADV-300-3+0-R	3 TE	150
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