

DATA SHEET

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	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20 μs)	I_{max}	50kA	50kA	50kA	50kA
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	$U_T / mode$	229V/withstand	442V/safe fail	529V/safe fail	762V/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	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	200kA	150kA	200kA	200kA

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 [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			
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)			

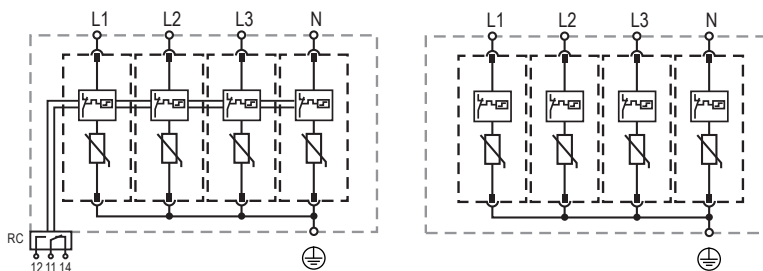
Order Information					
Order Code		150	300	350	480
ProTec T2-xxx-4+0		59.0101	59.0103	59.0300	59.0105
ProTec T2-xxx-4+0-R (with remote contacts)		59.0102	59.0104	59.0301	59.0106
ProTec T2-xxx-P		59.0064	59.0065	59.0066	59.0067

ProTec T2 4+0

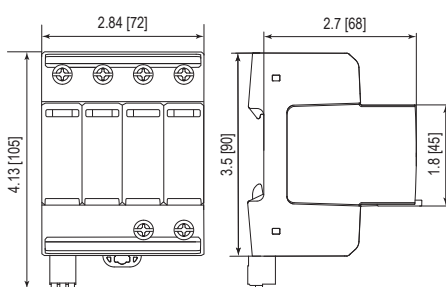
Internal Configuration

Legend

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



Dimensions & Packaging

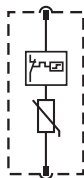


Dimensions & Packaging

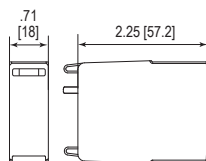
		150	300	350	480
ProTec T2-xxx-4+0	Single Unit Weight	pounds 1.032	1.094	1.138	1.182
		grams 468	496	516	536
ProTec T2-xxx-4+0-R	Single Unit Weight	pounds 1.052	1.114	1.158	1.202
		grams 477	505	525	545
Single Unit DIN 43880 Dimension		4 TE			
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]			
Minimum Order Quantity		4 Units			

Plug Internal Configuration

ProTec T2-xxx-P



Dimensions & Packaging



Dimensions & Packaging

		150	300	350	480
ProTec T2-xxx-P	Single Unit Weight	pounds .120	.135	.146	.157
		grams 54	61	66	71
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			

inches
[mm]

Information contained in this document is subject to change at any time without notice.

