

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 $\mu\text{s}$ )  
 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-xxx-3+0(-R)		150	300	350	480	750
<b>IEC Electrical</b>						
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 $\mu\text{s}$ )	$I_n$	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$	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	$U_T / \text{mode}$	229V/withstand	442V/safe fail	529V/safe fail	762V/safe fail	1143V/safe fail
Number of Ports		1				

<b>UL Electrical</b>						
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 $\mu\text{s}$ )	$I_n$	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

<b>Mechanical</b>						
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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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/1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm <sup>2</sup> (Solid)				

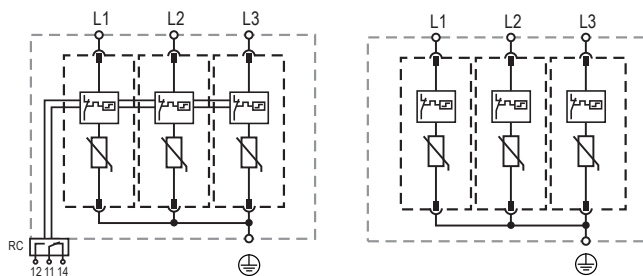
<b>Order Information</b>						
Order Code		150	300	350	480	750
ProTec T2-xxx-3+0		59.0091	59.0093	59.0095	59.0097	59.0099
ProTec T2-xxx-3+0-R (with remote contacts)		59.0092	59.0094	59.0096	59.0098	59.0100
ProTec T2-xxx-P		59.0064	59.0065	59.0066	59.0067	59.0068

## ProTec T2 3+0

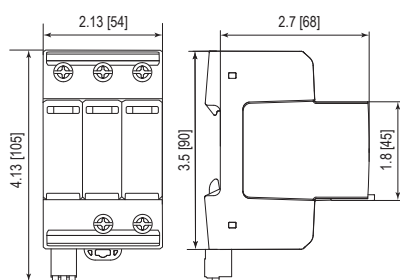
### Internal Configuration

#### Legend

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



### Dimensions & Packaging

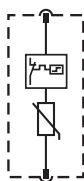


#### Dimensions & Packaging

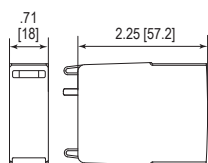
		150	300	350	480	750
Single Unit Weight	pounds	.761	.807	.840	.874	.979
	grams	345	366	381	396	444
		<b>150</b>	<b>300</b>	<b>350</b>	<b>480</b>	<b>750</b>
Single Unit Weight	pounds	.783	.829	.862	.896	1.001
	grams	355	376	391	406	454
Single Unit DIN 43880 Dimension		3 TE				
Packaging Dimensions (HxWxL)		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)		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.



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G29-00-400 170823