

**Overvoltage Protection**  
**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  
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA  
 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	550*
<b>IEC Electrical</b>						
Nominal AC Voltage (50/60Hz)	$U_o/U_n$	120V	240V	277V	400V	480V
Maximum Continuous Operating Voltage (AC)	$U_c$	150V	300V	350V	480V	550V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 $\mu$ s)	$I_{max}$	50 kA	50 kA	50 kA	50 kA	50 kA
Voltage Protection Level	$U_p$	1250V	1500V	1750V	2300V	2500V
Response Time	$t_A$	< 25 ns				
Overcurrent Protection (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	697V
TOV 120min	$U_T$	229V	442V	529V	762V	915V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				
<b>UL Electrical</b>						
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V	550V
Voltage Protection Rating	VPR	600V	900V	1000V	1500V	2000V
Nominal Discharge Current (8/20 $\mu$ 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 &amp; Environmental</b>						
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 <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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 <sup>2</sup> (Solid)				
<b>Order Information</b>						
Order Code		150	300	350	480	550*
ProTec T2-xxx-4+0		59.0101	59.0103	59.0300	59.0105	59.0683
ProTec T2-xxx-4+0-R (with remote contacts)		59.0102	59.0104	59.0301	59.0106	59.0684
ProTec T2-xxx-P (plug)		59.0064	59.0065	59.0066	59.0067	59.0685

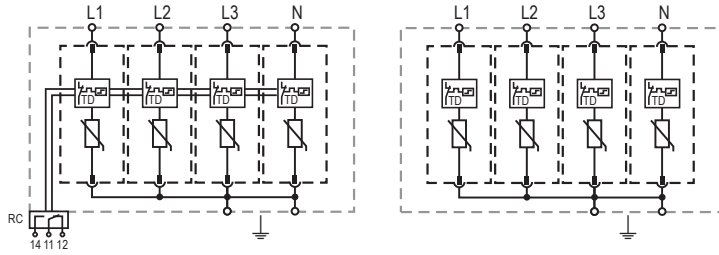
\*UL listed, no IEC/EN certification.

## ProTec T2 4+0

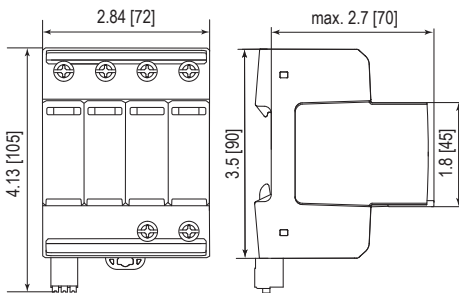
### Internal Configuration

#### Legend

- L Line Conductor Terminal
- N Neutral Conductor Terminal
- PE/G Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TD Thermal Disconnect



### Complete Unit

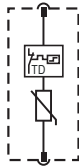


#### Complete Unit Dimensions & Packaging

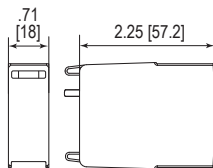
		150	300	350	480	550*
<b>ProTec T2-xxx-4+0</b>	Weight	pounds .989	1.015	1.059	1.112	1.208
		grams 448	460	480	504	548
<b>ProTec T2-xxx-4+0-R</b>						
Weight	pounds	1.008	1.035	1.079	1.132	1.228
	grams	457	469	489	513	557
DIN 43880 Dimension		4 TE / 2.84" [72]				
Packaging Dimensions (HxWxL)		4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]				
Standard Order Quantity		4 Units				

### Plug Internal Configuration

#### ProTec T2-xxx-P



### Spare Plug



#### Single Unit Dimensions & Packaging

		150	300	350	480	550*
<b>ProTec T2-xxx-P</b>	Weight	pounds .123	.130	.141	.154	.163
		grams 56	59	64	70	74
DIN 43880 Dimension		1 TE / .71" [18]				
Packaging Dimensions (HxWxL)		3.2 x 4.5 x 12" [83 x 115 x 305 mm]				
Standard Order Quantity		24 Units				

inches  
[mm]

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

