

**Overvoltage Protection**  
**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  
 IEC/EN/UL Category: Class II / Type 2 / Type 1CA  
 Safety: Current Limiting Technology  
 Housing: Pluggable Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012+A11:2018  
 UL 1449 5th Edition

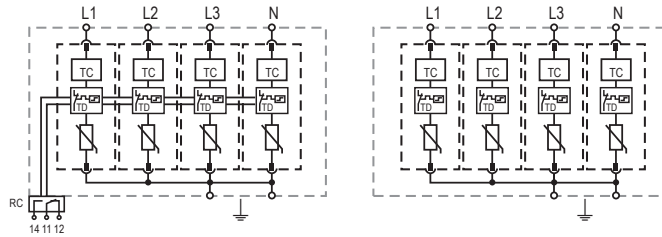
**Technical Data**

SafeTec 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	400V
Maximum Continuous Operating Voltage (AC)	$U_c$	150V	300V	350V	480V	550V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	20kA	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20 $\mu$ s)	$I_{max}$	50kA	50kA	50kA	50kA	50kA
Voltage Protection Level	$U_p$	1250V	1650V	1750V	2300V	2500V
Response Time	$t_A$			< 25 ns		
Overcurrent Protection (max)				315 A/250 A gG		
Short-Circuit Current Rating (AC)	$I_{SCCR}$			25kA/50kA		
TOV Withstand 120min	$U_T$	255V	442V	529V	762V	918V
Number of Ports				1		
<b>UL Electrical</b>						
Maximum Continuous Operating Voltage (AC)	MCOV	150V	300V	350V	480V	550V
Voltage Protection Rating	VPR	700V	1200V	1200V	1500V	1800V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	20kA	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	200kA	150kA	200kA	200kA	200kA
<b>Additional Electrical Parameters</b> (Tests performed within Raycap testing laboratory only)						
Residual Voltage at 5 kA (8/20 $\mu$ s)	$U_{res}$	750V	1000V	1300V	1600V	1900V
Overcurrent Protection (min)				80 A gG		
<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	$M_{max}$	40 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) / 1.5mm <sup>2</sup> (Solid)				

## Internal Configuration

### Legend

L	Line Conductor Terminal
N	Neutral Conductor Terminal
⏚	PE/G Conductor Terminal
RC	Remote Contacts Terminal (Optional)
TC	Thermal Control Function
TD	Thermal Disconnect



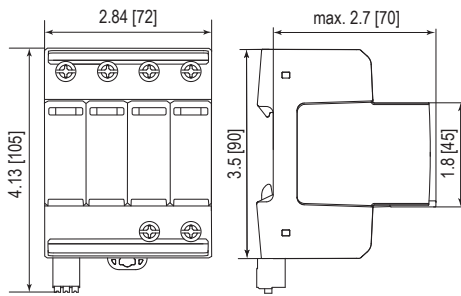
### SafeTec T2-xxx-4+0(-R)

#### 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 (plug)	59.0126	59.0127	59.0128	59.0129	59.0299

## Dimensions & Packaging

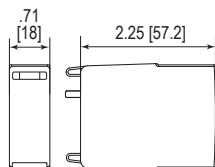
inches [mm]



#### Complete Unit

SafeTec T2-xxx-4+0	150	300	350	480	550	
Weight	pounds	1.070	1.097	1.167	1.1756	1.220
	grams	485	497	529	533	553
<b>SafeTec T2-xxx-4+0-R</b>						
Weight	pounds	1.090	1.117	1.187	1.196	1.240
	grams	494	506	538	542	562
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					

## Spare Plug



#### Single Unit

SafeTec T2-xxx-P	150	300	350	480	550	
Weight	pounds	.139	.146	.163	.165	.176
	grams	63	66	74	75	80
DIN 43880 Dimension	1 TE / .71" [18]					
Packaging Dimensions (HxWxL)	3.2 x 4.5 x 12" [83 x 116 x 305 mm]					
Standard Order Quantity	24 Units					

Connection Configurations can be found in QR Code link on intro page.

