

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

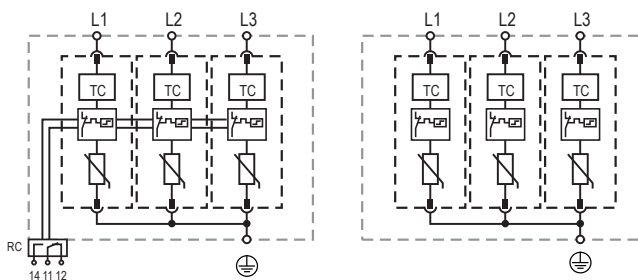
SafeTec T2-xxx-3+0(-R)		150	300	350	480	550	750	880
IEC Electrical								
Nominal AC Voltage (50/60Hz)	U_o / U_n	120V	240V	277V	400V	400V	600V	600V
Maximum Continuous Operating Voltage (AC)	U_c	150V	300V	350V	480V	550V	750V	880V
Nominal Discharge Current (8/20 μs)	I_n	20kA	20kA	20kA	20kA	20kA	20kA	20kA
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

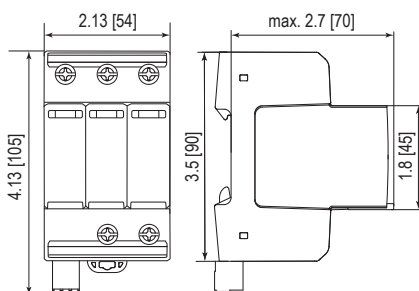
Internal Configuration

Legend

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



Dimensions & Packaging

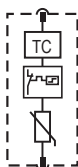


Dimensions & Packaging

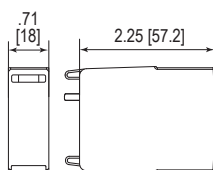
		150	300	350	480	550	750	880
SafeTec T2-xxx-3+0	Single Unit Weight	pounds .801	.834	.887	.907	.940	1.006	1.006
		grams 363	378	402	411	426	456	456
SafeTec T2-xxx-3+0-R	Single Unit Weight	pounds .823	.856	.909	.929	.962	1.028	1.028
		grams 373	388	412	421	436	466	466
Single Unit DIN 43880 Dimension					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
SafeTec T2-xxx-P	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			

inches
[mm]

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



Raycap

www.raycap.com

© 2018 Raycap All rights reserved.
G29-00-407 180219