

Pluggable Single-Pole SPD  
**SafeTec T2 1+0**  
 Class II • Type 2 • Type 1CA



Location of Use: Sub-distribution Boards  
 Network Systems: TN-S, TN-C, TT (only L-N)  
 Mode of Protection: L-PE, N-PE (only TN-S), L-PEN, L-N  
 Surge Ratings:  $I_n$  = up to 20 kA (8/20  $\mu$ s)  
 $I_{max}$  = up to 50 kA (8/20  $\mu$ 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 4<sup>th</sup> Edition

**Technical Data**

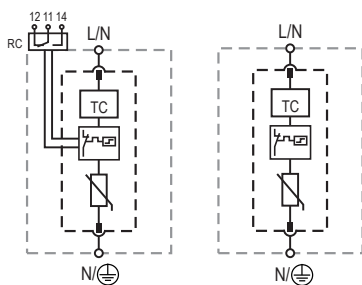
SafeTec T2-xxx-1+0(-R)		75	150	300	350	480	550	750	880
<b>IEC Electrical</b>									
Nominal AC Voltage (50/60Hz)	$U_o/U_n$	60V	120V	240V	277V	400V	400V	600V	600V
Maximum Continuous Operating Voltage (AC)	$U_c$	75V	150V	300V	350V	480V	550V	750V	880V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	20 kA	20 kA	20 kA	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	50 kA	35 kA	35 kA
Voltage Protection Level	$U_p$	800V	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	$U_T$	150V	255V	442V	529V	762V	918V	1200V	1250V
Number of Ports		1							
<b>UL Electrical</b>									
Maximum Continuous Operating Voltage (AC)	MCOV	75V	150V	300V	350V	480V	550V	750V	880V
Voltage Protection Rating	VPR	600V	700V	1200V	1200V	1500V	1800V	2500V	2500V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	85 kA	200 kA	150 kA	200 kA	200 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 [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 (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 <sup>2</sup> (Solid)							
<b>Order Information</b>									
Order Code		75	150	300	350	480	550	750	880
SafeTec T2-xxx-1+0		59.0132	59.0134	59.0136	59.0138	59.0140	59.0142	59.0144	59.0146
SafeTec T2-xxx-1+0-R (with remote contacts)		59.0133	59.0135	59.0137	59.0139	59.0141	59.0143	59.0145	59.0147
SafeTec T2-xxx-P		59.0125	59.0126	59.0127	59.0128	59.0129	59.0299	59.0130	59.0131

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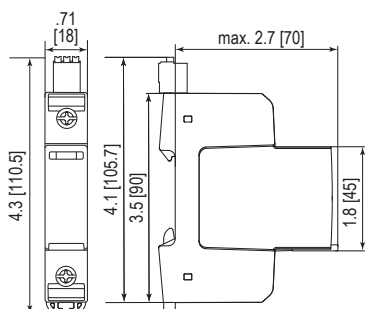
### Internal Configuration

#### Legend

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



### Dimensions & Packaging

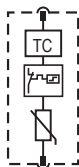


#### Dimensions & Packaging

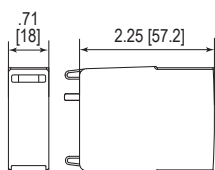
		75	150	300	350	480	550	750	880	
<b>SafeTec T2-xxx-1+0</b>	Single Unit Weight									
		pounds	.272	.280	.292	.309	.316	.327	.349	.349
		grams	123	127	132	140	143	148	158	158
<b>SafeTec T2-xxx-1+0-R</b>	Single Unit Weight									
		pounds	.287	.296	.307	.325	.331	.342	.364	.364
		grams	130	134	139	147	150	155	165	165
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		12 Units								

### Plug Internal Configuration

#### SafeTec T2-xxx-P



### Dimensions & Packaging



#### Dimensions & Packaging

		75	150	300	350	480	550	750	880	
<b>SafeTec T2-xxx-P</b>	Single Unit Weight									
		pounds	.124	.133	.144	.161	.168	.179	.201	.201
		grams	56	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.

