

Overvoltage Protection

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
 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

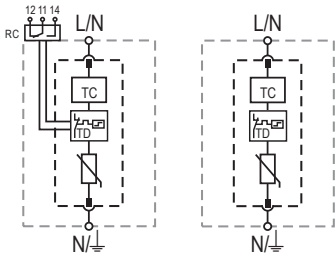
Technical Data

SafeTec T2-xxx-1+0(-R)			75	150	300	350	480	550	750	880
IEC Electrical										
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 (8/20μs)	I _n	20kA	20kA	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Maximum Discharge Current (8/20μs)	I _{max}	50kA	50kA	50kA	50kA	50kA	50kA	35kA	35kA	
Voltage Protection Level	U _p	800V	1250V	1650V	1750V	2300V	2500V	3500V	3600V	
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	150V	255V	442V	529V	762V	918V	1200V	1250V	
Number of Ports		1								
UL Electrical										
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 (8/20μs)	I _n	20kA	20kA	20kA	20kA	20kA	20kA	20kA	20kA	20kA
Short-Circuit Current Rating (AC)	SCCR	85kA	200kA	150kA	200kA	200kA	200kA	200kA	200kA	200kA
Additional Electrical Parameters <i>(Tests performed within Raycap testing laboratory only)</i>										
Residual Voltage at 5 kA (8/20 μs)	U _{res}	400V	750V	1000V	1300V	1600V	1900V	2700V	2800V	
Overcurrent Protection (min)		80A gG								
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}	40 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		35mm 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 ² (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 Disconnecter



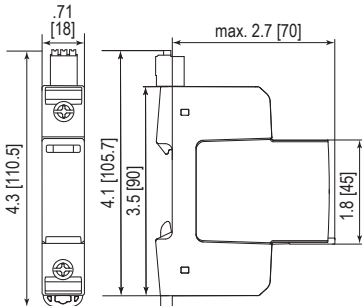
SafeTec T2-xxx-1+0(-R)

Order Information

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 (plug)	59.0125	59.0126	59.0127	59.0128	59.0129	59.0299	59.0130	59.0131

Dimensions & Packaging

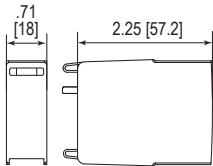
inches [mm]



Complete Unit

SafeTec T2-xxx-1+0		75	150	300	350	480	550	750	880
Weight	pounds	.279	.290	.297	.314	.317	.328	.345	.350
	grams	127	132	135	143	144	149	157	159
SafeTecT2-xxx-1+0-R									
Weight	pounds	.295	.306	.312	.330	.332	.343	.361	.365
	grams	134	139	142	150	151	156	164	166
DIN 43880 Dimension					1 TE / .71" [18]				
Packaging Dimensions (HxWxL)			4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]						
Standard Order Quantity					12 Units				

Spare Plug



Single Unit

SafeTec T2-xxx-P		75	150	300	350	480	550	750	880
Weight	pounds	.128	.139	.146	.163	.165	.176	.194	.198
	grams	58	63	66	74	75	80	88	90
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.



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G29-00-405 240425