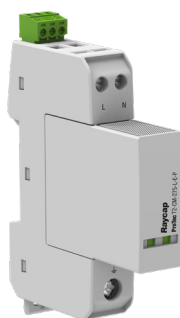


DATA SHEET

Pluggable Multi-pole SPD ProTec T2-CM-2+0-L-E(-R) Class II • Class III • Type 2 • Type 3



Location of Use: Sub-distribution Boards
Network Systems: TN-S, TN-C, IT* (only 440)
Mode of Protection: L-PE, L-PEN, N-PE
IEC/EN Category: Class II+III / Type 2+3
Housing: Pluggable Design
Compliance: IEC 61643-11:2011
EN 61643-11:2012+A11:2018

Technical Data

ProTec T2-CM-xxx-2+0-L-E(-R)

275

440

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230 V	230 V
Maximum Continuous Operating Voltage (AC)	U_c	275 V	440 V
Nominal Discharge Current (8/20 μ s)	I_n	10 kA	
Maximum Discharge Current (8/20 μ s)	I_{max}	20 kA	
Voltage Protection Level for Type 2+3	U_p	1200 V	1700 V
Voltage Protection Level for Type 3 only	U_p	1000 V	1400 V
Open Circuit Voltage of Combination Wave Generator (1.2/50 μ s)	U_{oc}	6 kV	
Short Circuit Current of Combination Wave Generator (8/20 μ s)	I_{cw}	3 kA	
Response Time	t_A	< 25 ns	
Overcurrent Protection (max)		100 A gG	
Short-Circuit Current Rating	I_{SCCR}	25 kA	
TOV Withstand 5s	U_T	335 V	440 V
TOV 120min	$U_T / mode$	440 V / Safe Fail	440 V / Withstand
Number of Ports		1	

Additional Electrical Parameters (Tests performed within Raycap testing laboratory only)

Residual Voltage at 5 kA (8/20 μ s)	U_{res}	1000 V	1500 V
Overcurrent Protection (min)		40 A gG	

Mechanical & Environmental

Temperature Range	T_a	-40 °C to +85 °C	
Permissible Humidity	RH	5%...95%	
Altitude (max)		6562 ft [2000 m]	
Terminal Screw Torque	(L, N) M_{max}	10 lbf-in [1.2 Nm]	
	(PE) M_{max}	17 lbf-in [2.0 Nm]	
Conductor Cross Section (max)	(L, N)	8 AWG (Solid, Stranded) / 10 AWG (Flexible)	
		10 mm ² (Solid, Stranded) / 6 mm ² (Flexible)	
	(PE)	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)	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250/0.5A; DC: 60V/0.1A	
RC Terminal Cross Section (max)		13 AWG [1.5 mm ²]	
RC Terminal Screw Torque	M_{max}	3.5 lbf-in [0.4 Nm]	

*Only applicable for SPD with U_c 440V to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60364-4-44:2018).



Raycap

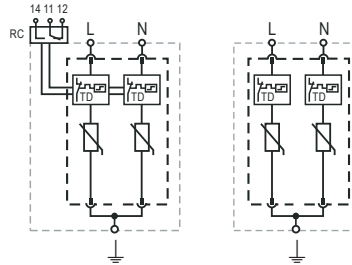
www.raycap.com

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

Internal Configuration

Legend

<i>L</i>	Line Conductor Terminal
<i>N</i>	Neutral Conductor Terminal
	PE Conductor Terminal
<i>RC</i>	Remote Contacts Terminal
<i>TD</i>	Thermal Disconnect

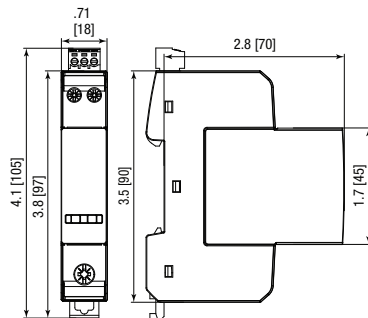


ProTec T2-CM-xxx-2+0-L-E(-R)

Order Information

Order Code	275	440
ProTec T2-CM-xxx-2+0-L-E	515 599	515 601
ProTec T2-CM-xxx-2+0-L-E-R (with remote contact)	515 600	515 602
ProTec T2-CM-xxx-L-E-P (plug)	515 667	515 668

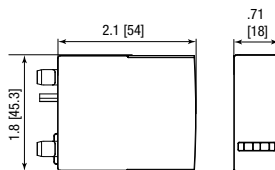
Dimensions & Packaging



Complete Unit

ProTec T2-CM-xxx-2+0-L-E		275	440
Weight	pounds [grams]	.334 [152]	.352 [160]
ProTec T2-CM-xxx-2+0-L-E-R			
Weight	pounds [grams]	.345 [157]	.363 [165]
DIN 43880 Dimension	1 TE / .70" [18 mm]		
Packaging Dimensions (H×W×L)	3.2 × 1.7 × 4.6" [83.5 × 44 × 117 mm]		
Standard Order Quantity	15 Units		

Spare plug



Single Unit

ProTec T2-CM-xxx-L-E-P		275	440
Weight	pounds [grams]	.173 [78.5]	.190 [86.5]
DIN 43880 Dimension		1 TE / .70" [18 mm]	
Packaging Dimensions (H×W×L)		2.5 × 1.8 × 8.7" [64 × 45 × 220 mm]	
Standard Order Quantity		24 Units	