

**DATA SHEET**

# Pluggable Multi-pole SPD

## ProTec CM(R) 80 (1+1)

### Class II • Type 2



Location of Use: Sub-distribution Boards  
 Network Systems: TT, TN-S  
 Mode of Protection: L - N, N - PE  
 IEC/EN Category: Class II / Type 2  
 Housing: Modular Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

**Technical Data****ProTec CM(R) 80/xxx (1+1)****275****320****Electrical**

Nominal AC Voltage (50/60 Hz)	$U_o$	230V	230V
Maximum Continuous Operating Voltage (AC)	(L - N) $U_c$	275V	320V
	(N - PE) $U_c$		255V
Nominal Discharge Current (8/20 $\mu$ s)	(L - N)/(N - PE) $I_n$		15 kA/20 kA
Maximum Discharge Current (8/20 $\mu$ s)	(L - N)/(N - PE) $I_{max}$		40 kA/35 kA
Voltage Protection Level	(L - N) $U_p$	1.5 kV	1.5 kV
	(N - PE) $U_p$	1.75 kV	1.75 kV
Follow Current Interrupt Rating	(N - PE) $I_{fi}$		100 A <sub>RMS</sub>
Response Time	(L - N)/(N - PE) $t_A$		< 25 ns / < 100 ns
Overcurrent Protection (max)			63 A gG
Short-Circuit Current Rating	$I_{SCCR}$		25 kA
TOV Withstand 5 s	(L - N) $U_T$		335V
TOV Safe fail 200ms	(N - PE) $U_T$		1200V/300A
Number of Ports			1

**Mechanical & Environmental**

Temperature Range	$T_a$		-40 °C to +85 °C
Permissible Humidity	RH		5%...95%
Terminal Screw Torque	(L, N) $M_{max}$		0.5 Nm
	(PE) $M_{max}$		3.0 Nm
Conductor Cross Section	(L, N)		6 mm <sup>2</sup> (solid) / 4 mm <sup>2</sup> (stranded)
	(PE)		35 mm <sup>2</sup> (solid) / 25 mm <sup>2</sup> (stranded)
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
Fault Indication			Red Flag
Remote Contacts (RC)			Optional
RC Switching Capacity			AC: 250V/0.5A; 125V/3A
RC Terminal Cross Section (max)			1.5 mm <sup>2</sup>
RC Terminal Screw Torque			0.25 Nm

**Order Information**

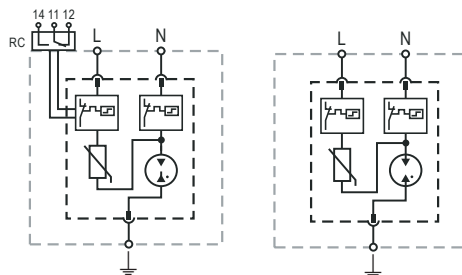
Order Code	275	320
ProTec CM 80/xxx (1+1)	508.330	508.331
ProTec CMR 80/xxx (1+1) (with remote contacts)	508.335	508.336
Plug ProTec CM(R) 80/xxx (1+1)	508.340	508.341

## ProTec CM(R) 80 (1+1)

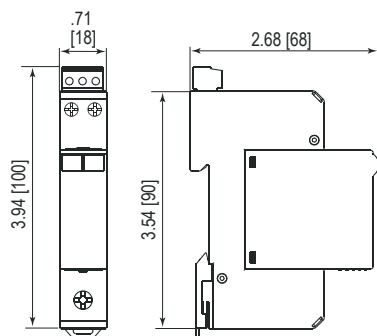
### Internal Configuration

#### Legend

- L Line Conductor Terminal
- N Neutral Conductor Terminal
- ⏏ PE Conductor Terminal
- RC Remote Contacts Terminal (Optional)



### Complete Unit

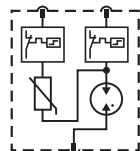


#### Complete Unit Dimensions & Packaging

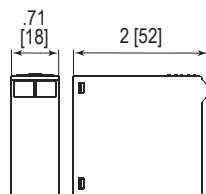
		275	320
<b>ProTec CM 80/xxx (1+1)</b>			
Weight	pounds (grams)	0.28 [126]	0.28 [126]
<b>ProTec CMR 80/xxx (1+1)</b>			
Weight	pounds (grams)	0.29 [131]	0.29 [131]
DIN 43880 Dimension		1 TE / .71" [18 mm]	
Packaging Dimensions (H x W x L)		3.1 x 4.4 x 11.7" [79 x 112 x 298 mm]	
Standard Order Quantity		12 Units	

### Plug Internal Configuration

#### Module ProTec CM(R) 80/xxx (1+1)



### Spare Plug



#### Single Unit Dimensions & Packaging

		275	320
<b>Plug ProTec CM(R) 80/xxx (1+1)</b>			
Weight	pounds (grams)	0.13 [59]	0.13 [59]
Single Unit DIN 43880 Dimension		1 TE / .71" [18 mm]	
Packaging Dimensions (H x W x L)		3.86 x 3.03 x 4.33" [98 x 77 x 110 mm]	
Standard Order Quantity		12 Units	

inches  
[mm]

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

