

PSM 20 1+1

Power Line SPDs

DIN RAIL - IEC TYPE 2+3



General Data

Internal configuration	1+1
No. Poles	2-Pole
No. DIN rail modules	2
Network configuration	TT, TNS
IEC SPD Type	Class II + III
EN SPD Type	Type 2+3
Format	Pluggable
Protection Modes	L-N / N-PE
Product standards	IEC 61643-11; EN 61643-11



PART NUMBERS

XXX	120	230	277
PSM2-20/XXX TT	77707750	77707752	77707758
PSM2-20/XXX TT IR (with Remote Indication)	77707751	77707753	77707759

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

PSM2-20/XXX TT, PSM2-20/XXX TT IR (with Remote Indication)	120	230	277
Maximum continuous operating voltage (AC) - Uc (L-N) [V]	150	320	
Maximum continuous operating voltage (AC) - Uc (N-PE) [V]		255	
Nominal voltage AC 50-60 Hz - Un [V]	120	230	277
Nominal voltage AC 50-60 Hz - Un(L-L) [V]	208	400	480
Nominal voltage AC 50-60 Hz - Un(L-N) [V]	120	230	277
Nominal discharge current (8/20) - In (L-N) [kA]		10	
Nominal discharge current (8/20) - In (N-PE) [kA]		10	
Max Discharge Current (8/20) - I _{max} (L-N) [kA]		20	
Max Discharge Current (8/20) - I _{max} (N-PE) [kA]		20	
Voltage protection level at In - Up (L-N) [kV]	≤0,8	≤1,4	
Voltage protection level at In - Up (N-PE) [kV]		≤1,5	
Combined Discharge Voltage (1,2/50) (Uoc) [kV]		10	
Maximum back-up fuse [A [gG]]		80	
Following current - I _{fi} [A]		100	
Response time - t _A (L-N) [ns]		≤25	
Response time - t _A (N-PE) [ns]		≤100	
Dynamic thermal disconnection		Yes	
Thermal protection behaviour		OCM (Open Circuit Mode)	

MECHANICAL AND ENVIRONMENTAL FEATURES

PSM2-20/XXX TT, PSM2-20/XXX TT IR (with Remote Indication)	120	230	277
Temperature range [°C]		-40 ... 85	
Humidity range [%]		5 ... 95	
Indication System Type		Green (OK) / Not green (replace)	

DATASHEET

This document is subject to change at any time without notice www.cirprotec.com | Lepanto 49 · 08223 Terrassa, Barcelona Spain © 2024 Cirprotec SLU | All rights reserved

cirprotec

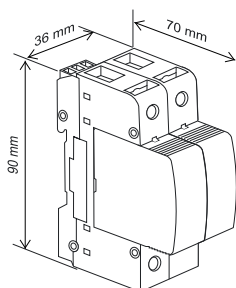
PSM 20 1+1

Power Line SPDs
DIN RAIL - IEC TYPE 2+3

Continue PSM2-20/XXX TT, PSM2-20/XXX TT IR (with Remote Indication)

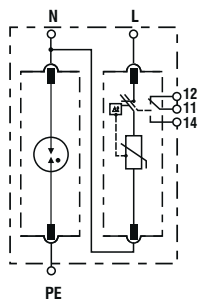
PSM2-20/XXX TT, PSM2-20/XXX TT IR (with Remote Indication)	120	230	277
Insulating material		PA66 CT1	
Enclosure - IP		IP20	
Flammability class		UL94 V-0	
Solid conductor cross section		6...35 mm ²	
Stranded conductor cross section		6...25 mm ²	
Torque rating [N m]		3	
Remote indication conductor cross section [mm ²]		0.08 ... 1.5	
Remote indication switching capacity [V/A]		AC: 125/0.2 DC: 250/1	
Remote Indication Torque [N m]		0.2	

DIMENSIONS AND WEIGHT



PSM2-20/XXX TT PSM2-20/XXX TT IR (with Remote Indication)	120	230	277
Net Weight [kg]	0.188	0.183	0.22
Gross weight [kg]	0.205	0.213	0.25
Packaging dimensions (H x W x L) [mm]	117 × 42 × 90		

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

PSM2-20/XXX TT PSM2-20/XXX TT IR (with Remote Indication)	120	230	277
PSM-20/XXX (Line)	77707650	77707651	77707671
PSM-20N(Neutral)	77707663		