

PSM 20 1+0

Power Line SPDs
DIN RAIL - IEC TYPE 2+3



General Data

Internal configuration	1+0
No. Poles	1-Pole
No. DIN rail modules	1
Network configuration	TNS, TNC, TT (only L-N)
IEC SPD Type	Class II + III
EN SPD Type	Type 2+3
Format	Pluggable
Protection Modes	L - N / L-PE / N-PE
Product standards	IEC 61643-11; EN 61643-11



PART NUMBERS

XXX	120	230	277	400
PSM1-20/XXX	77707700	77707702	77707732	77707704
PSM1-20/XXX IR (with Remote Indication)	77707701	77707703	77707733	77707705

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

PSM1-20/XXX, PSM1-20/XXX IR (with Remote Indication)	120	230	277	400
Maximum continuous operating voltage (AC) - Uc [V]	150	320	440	
Nominal voltage AC 50-60 Hz - Un [V]	120	230	277	400
Nominal discharge current (8/20)- In [kA]		10		
Max Discharge Current (8/20) - I _{max} [kA]		20		
Voltage protection level at In - Up [kV]	≤0,8	≤1,4	≤2	
Combined Discharge Voltage (1,2/50) (Uoc) [kV]		10		
Maximum back-up fuse [A [gG]]		80		
Response time - tA [ns]		≤25		
Dynamic thermal disconnection		Yes		
Thermal protection behaviour		OCM (Open Circuit Mode)		

SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

PSM1-20/XXX, PSM1-20/XXX IR (with Remote Indication)	120	230	277	400
Maximum continuous operating voltage - MCOV (L-L) [V]	640	880	1500	
Maximum continuous operating voltage - MCOV (L-G) [V]	320	440	750	

MECHANICAL AND ENVIRONMENTAL FEATURES

PSM1-20/XXX, PSM1-20/XXX IR (with Remote Indication)	120	230	277	400
Temperature range [°C]		-40 ... 85		
Humidity range [%]		5 ... 95		
Indication System Type		Green (OK) / Not green (replace)		
Insulating material		PA66 CT1		
Enclosure - IP		IP20		
Flammability class		UL94 V-0		

DATASHEET

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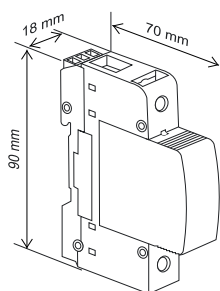
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Continue PSM1-20/XXX, PSM1-20/XXX IR (with Remote Indication)

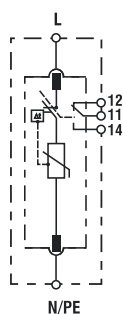
PSM1-20/XXX, PSM1-20/XXX IR (with Remote Indication)	120	230	277	400
Solid conductor cross section	6...35 mm ²			
Stranded conductor cross section	6...25 mm ²			
Torque rating [N m]	3			
Remote indication conductor cross section [mm ²]	0.08 ... 1.5			
Remote indication switching capacity [V/A]	AC: 125/0.2 DC: 250/1			
Remote Indication Torque [N m]	0.2			

DIMENSIONS AND WEIGHT



PSM1-20/XXX PSM1-20/XXX IR (with Remote Indication)	120	230	277	400
Net Weight [kg]	0.105	0.11	0.134	
Gross weight [kg]	0.129	0.132	0.146	
Packaging dimensions (H x W x L) [mm]	117 × 24 × 90			

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

PSM1-20/XXX PSM1-20/XXX IR (with Remote Indication)	120	230	277	400
PSM-20/XXX (Line)	77707650	77707651	77707669	77707652