

# PSM 40 1+0

Power Line SPDs  
DIN RAIL - IEC TYPE 2



## 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
EN SPD Type	Type 2
UL SPD Type	Type 2 Component Assembly
Format	Pluggable
Protection Modes	L - N / L-PE / N-PE
Product standards	IEC/EN 61643-11; UL 1449 5th Edition



## PART NUMBERS

XX/YYY	40/120	40/230	40/277	40/400	30/750
PSM1-XX/YYY	77707706	77707708	77707734	77707710	77707714
PSM1-XX/YYY IR (with Remote Indication)	77707707	77707709	77707735	77707711	77707715

## SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

PSM1-XX/YYY, PSM1-XX/YYY IR (with Remote Indication)	40/120	40/230	40/277	40/400	30/750
Maximum continuous operating voltage (AC) - Uc [V]	150	275	320	440	750
Nominal voltage AC 50-60 Hz - Un [V]	120	230	277	400	480
Nominal discharge current (8/20)- In [kA]			20		15
Max Discharge Current (8/20) - Imax [kA]			40		30
Voltage protection level at In - Up [kV]	≤1	≤1,3	≤1,5	≤2	≤3
Voltage protection level - Ures (L-N) at 10kA [kV]	0.6				
Voltage protection level- Ures (L-N) at 5kA [kV]	0.5				
Maximum back-up fuse [A [gG]]			125		63
Short circuit withstand- Isccr [kA]			25		
Response time - tA [ns]			≤25		
Dynamic thermal disconnection			Yes		
Thermal protection behaviour			OCM (Open Circuit Mode)		

## SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

PSM1-XX/YYY, PSM1-XX/YYY IR (with Remote Indication)	40/120	40/230	40/277	40/400	30/750
Nominal discharge current (8/20) - In [kA]			20		10
Voltage protection rating - VPR (L-N) [V]	700	900	1200	1500	2500

## MECHANICAL AND ENVIRONMENTAL FEATURES

PSM1-XX/YYY, PSM1-XX/YYY IR (with Remote Indication)	40/120	40/230	40/277	40/400	30/750
Temperature range [°C]			-40 ... 85		
Humidity range [%]			5 ... 95		
Indication System Type			Green (OK) / Not green (replace)		
Insulating material			PA66 CT1		

## DATASHEET

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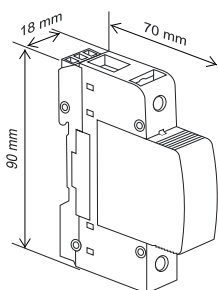
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# PSM 40 1+0

Continue PSM1-XX/YYY, PSM1-XX/YYY IR (with Remote Indication)

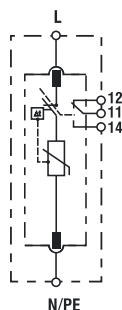
PSM1-XX/YYY, PSM1-XX/YYY IR (with Remote Indication)	40/120	40/230	40/277	40/400	30/750
Enclosure - IP	IP20				
Flammability class	UL94 V-0				
Solid conductor cross section	6...35 mm <sup>2</sup>				
Stranded conductor cross section	6...25 mm <sup>2</sup>				
Torque rating [N m]	3				
Remote indication conductor cross section [mm <sup>2</sup> ]	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-XX/YYY PSM1-XX/YYY IR (with Remote Indication)	40/120	40/230	40/277	40/400	30/750
Net Weight [kg]	0.113	0.119	0.123	0.13	0.133
Gross weight [kg]	0.137	0.143	0.147	0.153	0.152
Packaging dimensions (H x W x L) [mm]	117 × 24 × 90				

## INTERNAL CONFIGURATION



## REPLACEMENT CARTRIDGES

PSM1-XX/YYY PSM1-XX/YYY IR (with Remote Indication)	40/120	40/230	40/277	40/400	30/750
PSM-XX/YYY (Line)	77707653	77707654	77707671	77707655	77707668