

PSM 40 2+0

Power Line SPDs
DIN RAIL - IEC TYPE 2



General Data

Internal configuration	2+0
No. Poles	2-Pole
No. DIN rail modules	2
Network configuration	TNS
IEC SPD Type	Class II
EN SPD Type	Type 2
UL SPD Type	Type 2 Component Assembly
Format	Pluggable
Protection Modes	L-PE / N-PE
Product standards	IEC/EN 61643-11; UL 1449 5th Edition



PART NUMBERS

XXX	120	230	277
PSM2-40/XXX TNS	77707904	77707906	77707914
PSM2-40/XXX TNS IR (with Remote Indication)	77707905	77707907	77707915

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

PSM2-40/XXX TNS, PSM2-40/XXX TNS IR (with Remote Indication)	120	230	277
Maximum continuous operating voltage (AC) - U _c [V]	150	275	320
Maximum continuous operating voltage (DC) - U _{cpv} [V]	175		
Nominal voltage AC 50-60 Hz - U _n [V]	120	230	277
Nominal discharge current (8/20) - I _n [kA]		20	
Max Discharge Current (8/20) - I _{max} [kA]		40	
Voltage protection level at I _n - U _p [kV]	≤1	≤1,3	≤1,5
Voltage protection level - U _{res} (L-PE) at 10kA [kV]	0.6		
Voltage protection level - U _{res} (L-PE) at 5kA [kV]	0.5		
Maximum back-up fuse [A [gG]]		125	
Short circuit withstand- I _{sc} [kA]		25	
Response time - t _A [ns]		≤25	
Dynamic thermal disconnection		Yes	
Thermal protection behaviour	OCM (Open Circuit Mode)		

SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

PSM2-40/XXX TNS, PSM2-40/XXX TNS IR (with Remote Indication)	120	230	277
Nominal discharge current (8/20) - I _n [kA]		20	
Maximum continuous operating voltage - MCOV (L-N) [V]	175	275	320
Maximum continuous operating voltage - MCOV (L-G) [V]	175	275	320
Maximum continuous operating voltage - MCOV (N-G) [V]	175	275	320
Voltage protection rating - VPR (L-N) [V]	700	1800	2000
Voltage protection rating - VPR (L-G) [V]	700	1500	1200
Voltage protection rating - VPR (N-G) [V]	700	900	1200

DATASHEET

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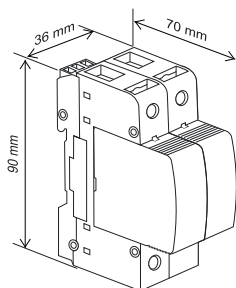
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PSM 40 2+0

MECHANICAL AND ENVIRONMENTAL FEATURES

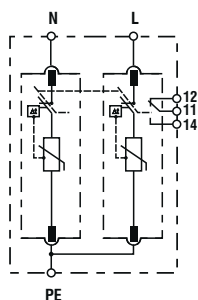
PSM2-40/XXX TNS, PSM2-40/XXX TNS IR (with Remote Indication)	120	230	277
Temperature range [°C]		-40 ... 85	
Humidity range [%]		5 ... 95	
Indication System Type		Green (OK) / Not green (replace)	
Insulating material		PA66 CT1	
Enclosure - IP		IP20	
Flammability class		UL94 V-0	
Solid conductor cross 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



PSM2-40/XXX TNS PSM2-40/XXX TNS IR (with Remote Indication)	120	230	277
Net Weight [kg]	0.2	0.213	0.223
Gross weight [kg]	0.23	0.244	0.253
Packaging dimensions (H x W x L) [mm]	117 × 42 × 90		

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

PSM2-40/XXX TNS PSM2-40/XXX TNS IR (with Remote Indication)	120	230	277
PSM-XX/YYY (Line)	77707653	77707654	77707671