

# PSM 5YPV2

Photovoltaic & Energy Storage SPDs  
DIN RAIL - IEC TYPE 2 PV



## General Data

Internal configuration	2+,2-, PE
No. DIN rail modules	5
Network configuration	5YPV
IEC SPD Type	Class II
EN SPD Type	PV Type 2
UL SPD Type	Type 2 Component Assembly
Format	Pluggable
Protection Modes	L+/PE, L-/PE, L+/L-
Product standards	IEC/EN 61643-31; UL 1449 5th Edition



## PART NUMBERS

PSM5-40/1000 PV2 IR

77707823

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

Maximum continuous operating voltage (DC) - U <sub>cpv</sub> [V]	1060
Nominal discharge current (8/20) - I <sub>n</sub> [kA]	20
Max Discharge Current (8/20) - I <sub>max</sub> [kA]	40
Voltage protection level at I <sub>n</sub> - U <sub>p</sub> (L-L) [kV]	≤4
Voltage protection level at I <sub>n</sub> - U <sub>p</sub> (L-PE) [kV]	≤4
Short Circuit Withstand - I <sub>scpv</sub> [kA]	10
Response time - t <sub>A</sub> [ns]	≤25
Dynamic thermal disconnection	Yes
Thermal protection behaviour	OCM (Open Circuit Mode)

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

Nominal discharge current (8/20) - I <sub>n</sub> [kA]	20
Maximum continuous operating voltage - MCOV (DC DC-) [V]	1000
Maximum continuous operating voltage - MCOV (DC+ G) [V]	1000
Maximum continuous operating voltage - MCOV (DC- G) [V]	1000
Voltage protection rating - VPR (DC- G) [V]	3000
Voltage protection rating - VPR (DC+ DC-) [V]	3000
Voltage protection rating - VPR (DC+ G) [V]	3000
Short-Circuit Current Rating-SCCR [kA]	50

## MECHANICAL AND ENVIRONMENTAL FEATURES

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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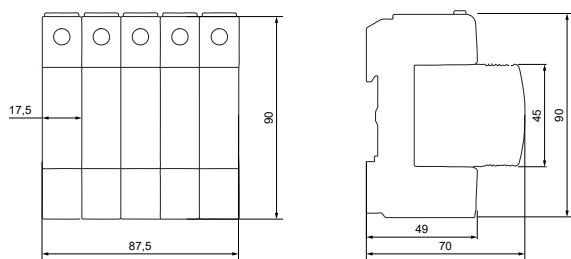
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Continue MECHANICAL AND ENVIRONMENTAL FEATURES

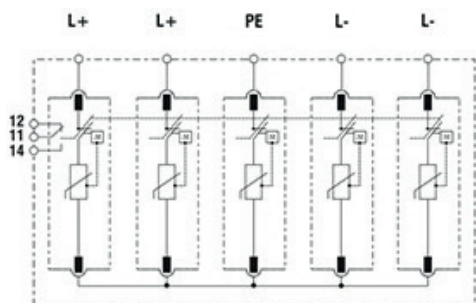
Solid conductor cross section	6...35 mm <sup>2</sup>
Stranded conductor cross section	6...25 mm <sup>2</sup>
Torque rating [N m]	3
Remote indication conductor cross section [mm <sup>2</sup> ]	0.08 ... 1.5
Remote indication switching capacity [V/A]	AC: 125/3 DC: 250/1
Remote Indication Torque [N m]	0.2

## DIMENSIONS AND WEIGHT



Net Weight [kg]	0.603
Gross weight [kg]	0.648
Packaging dimensions (H x W x L) [mm]	80 x 90 x 100

## INTERNAL CONFIGURATION



## REPLACEMENT CARTRIDGES

PSM-40/1000 PV (Line)	77707657
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