

# PSM 20 PLC 3+1

Power Line SPDs

DIN RAIL - IEC TYPE 2+3



## General Data

Internal configuration	3+1
No. Poles	4-Pole
No. DIN rail modules	4
Network configuration	TT, TNS
IEC SPD Type	Class II + III
EN SPD Type	Type 2+3
Format	Pluggable
Protection Modes	L-N / N-PE
Leakage current free - LCF	Yes
Product standards	IEC 61643-11; EN 61643-11



## PART NUMBERS

<b>XXX</b>	<b>400</b>
PSM4-20/XXX PLC TT	77707985
PSM4-20/XXX PLC TT IR (with Remote Indication)	77707986

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

PSM4-20/XXX PLC TT, PSM4-20/XXX PLC TT IR (with Remote Indication)	<b>400</b>
Maximum continuous operating voltage (AC) - U <sub>c</sub> (L-N) [V]	275
Maximum continuous operating voltage (AC) - U <sub>c</sub> (N-PE) [V]	255
Nominal voltage AC 50-60 Hz - U <sub>n</sub> [V]	230/400
Nominal voltage AC 50-60 Hz - U <sub>n</sub> (L-L) [V]	400
Nominal voltage AC 50-60 Hz - U <sub>n</sub> (L-N) [V]	230
Nominal discharge current (8/20) - I <sub>n</sub> (L-N) [kA]	10
Max Discharge Current (8/20) - I <sub>max</sub> (L-N) [kA]	20
Voltage protection level at I <sub>n</sub> - U <sub>p</sub> (L-N) [kV]	≤1,5
Voltage protection level at I <sub>n</sub> - U <sub>p</sub> (N-PE) [kV]	≤1,5
Combined Discharge Voltage (1,2/50) (U <sub>oc</sub> ) [kV]	10
Maximum back-up fuse [A [gG]]	80
Short circuit withstand- I <sub>sc</sub> [kA]	25
Following current - I <sub>fi</sub> [A]	100
Response time - t <sub>A</sub> (L-N) [ns]	≤100
Response time - t <sub>A</sub> (N-PE) [ns]	≤100
Dynamic thermal disconnection	Yes
Thermal protection behaviour	OCM (Open Circuit Mode)

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

PSM4-20/XXX PLC TT, PSM4-20/XXX PLC TT IR (with Remote Indication)	<b>400</b>
Maximum continuous operating voltage - MCOV (L-L) [V]	550
Maximum continuous operating voltage - MCOV (L-N) [V]	275
Maximum continuous operating voltage - MCOV (L-G) [V]	275

## DATASHEET

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# PSM 20 PLC 3+1

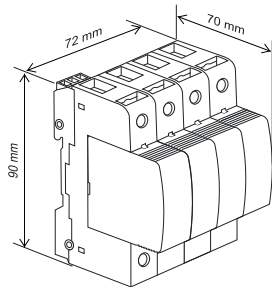
Continue PSM4-20/XXX PLC TT, PSM4-20/XXX PLC TT IR (with Remote Indication)

PSM4-20/XXX PLC TT, PSM4-20/XXX PLC TT IR (with Remote Indication)	<b>400</b>
Maximum continuous operating voltage - MCOV (N-G) [V]	275

## MECHANICAL AND ENVIRONMENTAL FEATURES

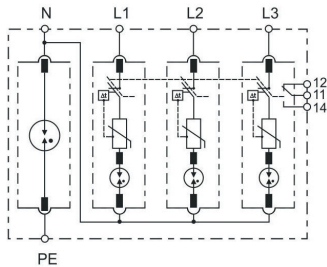
PSM4-20/XXX PLC TT, PSM4-20/XXX PLC TT IR (with Remote Indication)	<b>400</b>
Temperature range [°C]	-40 ... 85
Humidity range [%]	5 ... 95
Indication System Type	Green (OK) / Not green (replace)
Insulating material	PA66 CT1
Enclosure - IP	IP20
Flammability class	UL94 V-0
Solid conductor cross section	6...35 mm <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



PSM4-20/XXX PLC TT PSM4-20/XXX PLC TT IR (with Remote Indication)	<b>400</b>
Net Weight [kg]	0.343
Gross weight [kg]	0.386
Packaging dimensions (H x W x L) [mm]	117 × 78 × 90

## INTERNAL CONFIGURATION



## REPLACEMENT CARTRIDGES

PSM4-20/XXX PLC TT PSM4-20/XXX PLC TT IR (with Remote Indication)	<b>400</b>
PSM-20/XXX PLC (Line)	77707670
PSM-20N (Neutral)	77707663