

PSM 20 3+0

Power Line SPDs
DIN RAIL - IEC TYPE 2+3



General Data

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



PART NUMBERS

| XXX | 230 | 400 | 480 |
|---|----------|----------|----------|
| PSM3-20/XXX TNC | 77707860 | 77707862 | 77707880 |
| PSM3-20/XXX TNC IR (with Remote Indication) | 77707861 | 77707863 | 77707881 |

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

| PSM3-20/XXX TNC, PSM3-20/XXX TNC IR (with Remote Indication) | 230 | 400 | 480 |
|--|---------|-------------------------|---------|
| Maximum continuous operating voltage (AC) - U _c [V] | 150 | | 320 |
| Nominal voltage AC 50-60 Hz - U _n [V] | 120/208 | | 277/480 |
| Nominal discharge current (8/20)- I _n [kA] | | 10 | |
| Max Discharge Current (8/20) - I _{max} [kA] | | 20 | |
| Voltage protection level at I _n - U _p [kV] | ≤0,8 | | ≤1,4 |
| Combined Discharge Voltage (1,2/50) (U _{oc}) [kV] | | 10 | |
| Maximum back-up fuse [A [gG]] | | 80 | |
| Response time - t _A [ns] | | ≤25 | |
| Dynamic thermal disconnection | | Yes | |
| Thermal protection behaviour | | OCM (Open Circuit Mode) | |

MECHANICAL AND ENVIRONMENTAL FEATURES

| PSM3-20/XXX TNC, PSM3-20/XXX TNC IR (with Remote Indication) | 230 | 400 | 480 |
|--|-----|----------------------------------|-----|
| 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 | |

DATASHEET

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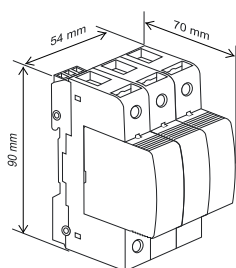
PSM 20 3+0

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Continue PSM3-20/XXX TNC, PSM3-20/XXX TNC IR (with Remote Indication)

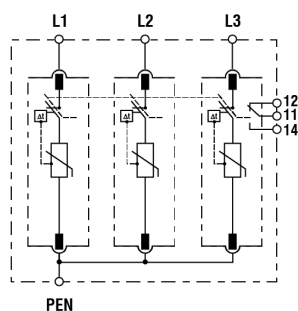
| | | | |
|--|------------|------------|------------|
| PSM3-20/XXX TNC, PSM3-20/XXX TNC IR (with Remote Indication) | 230 | 400 | 480 |
| Remote Indication Torque [N m] | | 0.2 | |

DIMENSIONS AND WEIGHT



| | | | |
|---|---------------|------------|------------|
| PSM3-20/XXX TNC PSM3-20/XXX TNC IR (with Remote Indication) | 230 | 400 | 480 |
| Net Weight [kg] | 0.263 | 0.29 | 0.326 |
| Gross weight [kg] | 0.298 | 0.345 | 0.365 |
| Packaging dimensions (H x W x L) [mm] | 117 × 63 × 90 | | |

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

| | | | |
|---|------------|------------|------------|
| PSM3-20/XXX TNC PSM3-20/XXX TNC IR (with Remote Indication) | 230 | 400 | 480 |
| PSM-20/XXX (Line) | 77707650 | 77707651 | 77707669 |