



PSM1-40/230



PSM2-40/230 TT



PSM4-40/400 TT



PSC2-25/230 TT IR



PSC4-25/400 TT IR

Modular plug-in surge protection devices SANS/IEC 61643-11

For the protection of low voltage equipment against transient voltages and current surges from atmospheric origins (*lightning*) as well as transients produced by switching characteristics such as in switching of distribution networks, transformers, motors, etc.

- Provides protection for even most sensitive equipment (IEC 60634-4-443 category-1)
- Clear lifetime indication (*on front face*) and optional remote (IR) end of life signalling contact
- Meets all current international standards (IEC 61643 / IEC 62305, etc.)
- Plug-in cartridges for quick and easy replacement of damaged cartridges
- Suitable for all types of applications: residential, commercial and industrial

| type | (10/350 μ s) L-N (Iimp) | (8/20 μ s) L-N (Imax) | max. volts L-N (Uc) | voltage protection (Up) | poles | config. | width in 18 mm |
|------|-----------------------------------|---------------------------------|---------------------------|-------------------------------|-------|---------|-------------------|
|------|-----------------------------------|---------------------------------|---------------------------|-------------------------------|-------|---------|-------------------|

Type 2 / Class II surge protection devices

Suitable for second level of protection with distribution panels where type 1 protectors are installed upstream or in areas not exposed to direct lightning strikes and with no external lightning protection

- High discharge capacity tested with an 8/20 μ s waveform: 20kA or 40kA per phase
- Provides protection for most sensitive equipment (*IEC 60634-4-443 category 1*)

Imax 20kA (8/20 μ s)

| | | | | | | | |
|-------------------|---|------|-------|--------------|---|-------|---|
| PSM1-20/230 | – | 20kA | 320 V | $\leq 1.4kV$ | 1 | 1ph | 1 |
| PSM1-20N | – | 20kA | 265 V | $\leq 1.5kV$ | 1 | N | 1 |
| PSM2-20/230 TT | – | 20kA | 320 V | $\leq 1.4kV$ | 2 | 1ph+N | 2 |
| PSM2-20/230 TT IR | – | 20kA | 320 V | $\leq 1.4kV$ | 2 | 1ph+N | 2 |
| PSM4-20/400 TT | – | 20kA | 320 V | $\leq 1.4kV$ | 4 | 3ph+N | 4 |
| PSM4-20/400 TT IR | – | 20kA | 320 V | $\leq 1.4kV$ | 4 | 3ph+N | 4 |

Imax 40kA (8/20 μ s)

| | | | | | | | |
|-------------------|---|------|-------|--------------|---|-------|---|
| PSM1-40/230 | – | 40kA | 275 V | $\leq 1.3kV$ | 1 | 1ph | 1 |
| PSM1-40N | – | 40kA | 265 V | $\leq 1.5kV$ | 1 | N | 1 |
| PSM2-40/230 TT | – | 40kA | 275 V | $\leq 1.3kV$ | 2 | 1ph+N | 2 |
| PSM2-40/230 TT IR | – | 40kA | 275 V | $\leq 1.3kV$ | 2 | 1ph+N | 2 |
| PSM4-40/400 TT | – | 40kA | 275 V | $\leq 1.3kV$ | 4 | 3ph+N | 4 |
| PSM4-40/400 TT IR | – | 40kA | 275 V | $\leq 1.3kV$ | 4 | 3ph+N | 4 |

Class 2 surge protection devices for higher voltage applications (500 - 690V)

- Rated varistor voltage $U_c = 750VAC$ / $I_{max} 30kA (8/20\mu s)$ $U_n 690VAC$

Imax 30kA (8/20 μ s)

| | | | | | | | |
|--------------------|---|------|-------|--------------|---|-----|---|
| PSM1-30/750 | – | 30kA | 750 V | $\leq 3.0kV$ | 1 | 1ph | 1 |
| PSM1-30/750 IR | – | 30kA | 750 V | $\leq 3.0kV$ | 1 | 1ph | 1 |
| PSM3-30/750 TNC | – | 30kA | 750 V | $\leq 3.0kV$ | 3 | 3ph | 1 |
| PSM3-30/750 TNC IR | – | 30kA | 750 V | $\leq 3.0kV$ | 3 | 3ph | 1 |

Type 1+2 / Class I+II lightning current and surge arrester (*combined in a single device*)

Suitable for first level of protection with incoming power supply panels and areas with greater exposure to lightning. For installations usually provided with external lightning protection systems.

- Capable of protecting equipment from direct lightning strikes
- High discharge capacity 10/350 μ s: 12.5kA or 25kA per phase
- Provides protection for most sensitive equipment (IEC 60634-4-443 category 1)

Iimp (10/350) 25kA per phase, I total 50kA (2 pole) and 100kA (4 pole)

| | | | | | | | |
|-------------------|------|-------|-------|--------------|---|-------|---|
| PSC2-25/230 TT | 25kA | 100kA | 275 V | $\leq 1.5kV$ | 2 | 1ph+N | 4 |
| PSC2-25/230 TT IR | 25kA | 100kA | 275 V | $\leq 1.5kV$ | 2 | 1ph+N | 4 |
| PSC4-25/400 TT | 25kA | 100kA | 275 V | $\leq 1.5kV$ | 4 | 3ph+N | 8 |
| PSC4-25/400 TT IR | 25kA | 100kA | 275 V | $\leq 1.5kV$ | 4 | 3ph+N | 8 |

Iimp (10/350) 12.5kA per phase, I total 25kA (2 pole) and 50kA (4 pole)

| | | | | | | | |
|---------------------|--------|------|-------|--------------|---|-------|---|
| PSC2-12.5/230 TT | 12.5kA | 65kA | 275 V | $\leq 1.3kV$ | 2 | 1ph+N | 2 |
| PSC2-12.5/230 TT IR | 12.5kA | 65kA | 275 V | $\leq 1.3kV$ | 2 | 1ph+N | 2 |
| PSC4-12.5/400 TT | 12.5kA | 65kA | 275 V | $\leq 1.3kV$ | 4 | 3ph+N | 4 |
| PSC4-12.5/400 TT IR | 12.5kA | 65kA | 275 V | $\leq 1.3kV$ | 4 | 3ph+N | 4 |

(IR) last two digits - with signalling contacts for remote indication/monitoring of devices