













Modular 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 switching of distribution networks, transformers, motors, etc.

| type | poles | Up | limp 10/350 μs | lmax 8/20 µs | description | width in 17.5 mm | |
|---|----------------|------------|-------------------|-----------------|---------------------------|---------------------|--|
| lass 1 and | class 2 cor | nbined s | urge prote | ction devi | ce | | |
| Lightning aReplaceable | 0 | 0 1 | ction in one o | device | | | |
| SPN802 | 3ph + N | ≤ 1.5kV | 100kA | _ | class 1+2 surge protector | 8 | |
| SPN802R* | 3ph + N | ≤ 1.5kV | 100kA | - | class 1+2 surge protector | 8 | |
| * With remote | e signalling c | ontact for | monitoring | | | | |

Class 2 surge protection (modular plug-in)

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

· Protection for domestic, industrial and commercial buildings

Replaceable plug-in cartridges

| Imax 40kA (8/20µs) | | | | | | |
|--------------------------------------|-------------------------------------|---------------------------------------|--------------------|--------------|--|--------|
| SPN140D | 1P | ≤ 1.5kV | - | 40kA | class 2 surge protector | 1 |
| SPN140R* | 1P | ≤ 1.5kV | | 40kA | class 2 surge protector | 1 |
| SPN240D | 1ph + N | ≤ 1.5kV | - | 40kA | class 2 surge protector | 2 |
| SPN240R* | 1ph + N | ≤ 1.5kV | | 40kA | class 2 surge protector | 2 |
| SPN440D SPN440R* * With remote | 3ph + N 3ph + N signalling co | ≤ 1.5kV ≤ 1.5kV contact for mor | – – nitoring | 40kA 40kA | class 2 surge protector class 2 surge protector | 4 4 |

Replacement cartridges for above surge protection devices

| SPN040D SPN040N | phase neutral | replacement cartridge replacement cartridge | for protectors for protectors | SPN240/440 SPN2/4 | 1 1 |
|--------------------|------------------|---|-------------------------------|----------------------|--------|
|--------------------|------------------|---|-------------------------------|----------------------|--------|

Energy meters (kWh meters) (modular DIN rail mounting)

- Accuracy: 1%
- Impulse output
- · Backlit LCD display
- "Total" counter and "Partial" (resettable) counter
- · Class 1 according to IEC 62 053-21 and EN 50470

• LED indication blinks according to consumption (1 pulse = 100wh)

type current operation description width Single-phase kWh meter 80A (direct reading) • Displays consumption of active energy and instantaneous power consumption

ECP180D 80A direct single-phase kWh meter

Three-phase kWh meters 80/125A

- · Protected against phase/neutral inversion
- Adaptable to three phase with or without neutral, 230V or 400V between lines
- · Displays consumption of active energy and instantaneous power consumption

| ECP380D | 80A | direct | three-phase kWh meter | 4 | |
|------------------------------------|------|--------|-----------------------|---|--|
| ECP310D | 125A | direct | three-phase kWh meter | 6 | |
| | | | | | |
| Three-phase kWh meters up to 6000A | | | (connection via CT) | | |
| | | | | | |

(direct reading)

- · Displays instantaneous power consumption
- · Displays consumption of active energy and reactive energy
- Adaptable to three phase with or without neutral, 230V or 400V between lines
- ECP300C 6000A CT / 5A three-phase kWh meter
- * For CT's, see Section E-Metering

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