



SPN802



SPN240D



SPN440R



SPN040D



EC150



EC350

Modular surge protection devices

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.

Standards: **SANS/IEC 61643-1**

type	poles	Up	limp 10/350 μs	I _{max} 8/20 μs	description	width in 17.5mm
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Class 1 and class 2 combined surge protection device

- Lightning and surge-voltage protection in one device
- Replaceable plug-in cartridges

SPN802	3ph+N	≤ 1.5kV	100kA	–	class 1+2 surge protector	8
SPN802R*	3ph+N	≤ 1.5kV	100kA	–	class 1+2 SPD	8

* With remote signalling contact 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

I_{max} 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	3ph+N	≤ 1.5kV	–	40kA	class 2 surge protector	4
SPN440R*	3ph+N	≤ 1.5kV	–	40kA	class 2 surge protector	4

* With remote signalling contact for monitoring

Replacement cartridges for above surge protection devices

SPN040D	“phase” replacement cartridge	for	protectors SPN240/440	1
SPN040N	“neutral” replacement cartridge	for	protectors SPN2/4	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
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Single-phase (kWh meter) 63A (direct reading)

- Displays consumption of active energy and instantaneous power consumption

EC150	63A	direct reading	single-phase kWh meter	3
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Three-phase (kWh meters) 63/100A (direct reading)

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

EC350	63A	direct reading	three-phase kWh meter	4
EC360	100A	direct reading	three-phase kWh meter	7

Three-phase (kWh meters) up to 6000A (connection via current transformer - CT)

- No polarity for CT connection
- 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

EC370	6000A	CT operated	three-phase kWh meter	4
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