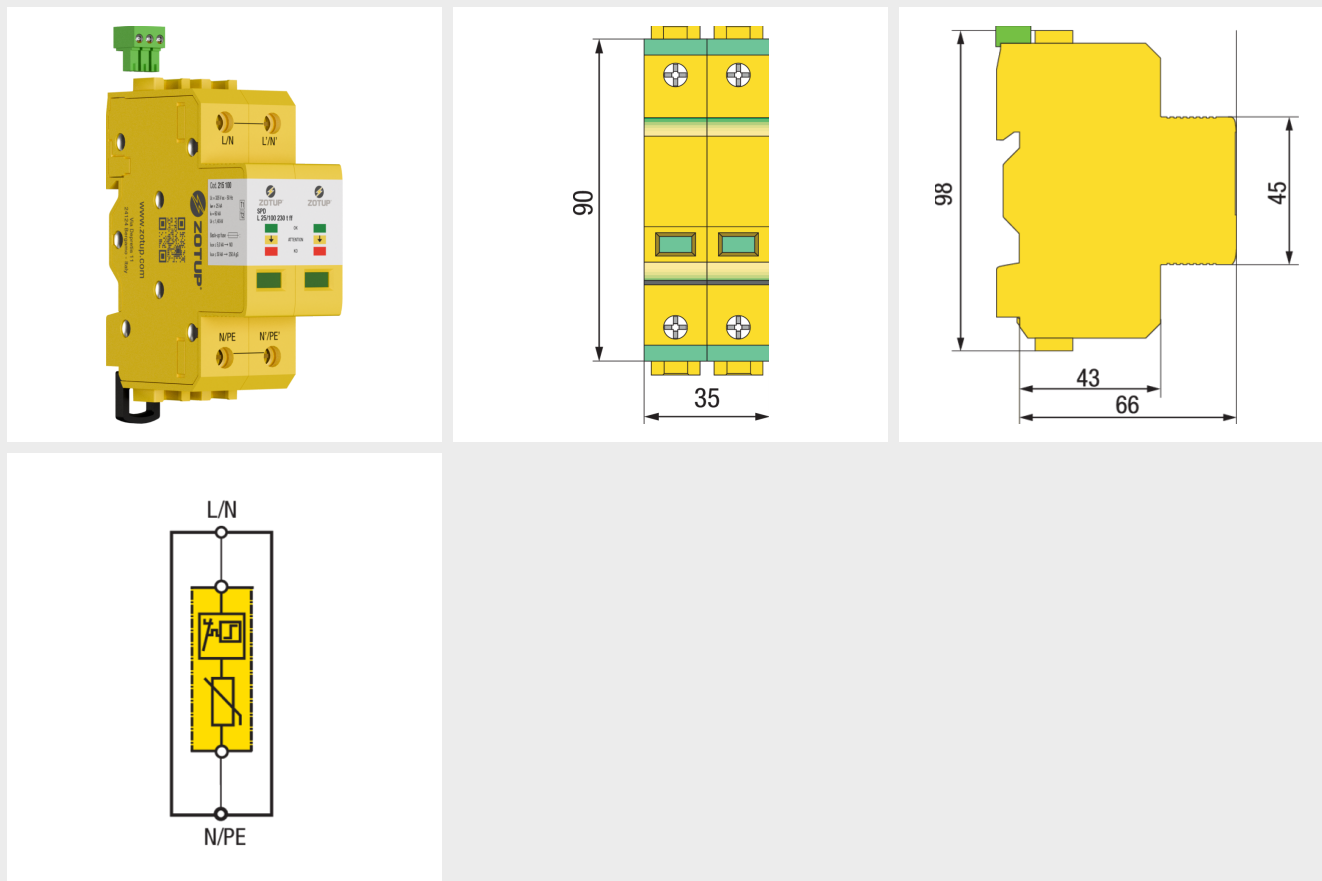


## SPDs FOR LOW VOLTAGE ALTERNATING CURRENT (AC) APPLICATION

### ZOTUPLIMITER | L 25/100 230 t ff

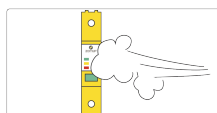
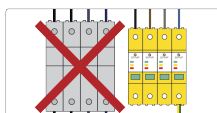


## Technical Data

L 25/100 230 t ff is a voltage limiting SPD providing a single mode of protection, typically installed at the origin of the installation, e.g. in the Main Distribution Board (MDB), in TN-systems or in TT-systems in combination with N-PE SPD model I 100, I 52 and with connection type CT2 (3+1 or 1+1).

## Features and benefits

- Impulse test classification: Test class I and II according to IEC 61643-11 Ed. 1 (2011-03) and Type 1 and 2 according to EN 61643-11 (2012-10);
- L 25/100 230 t ff is a voltage limiting SPD for the protection of low voltage installations and equipment against direct and indirect lightning effects;
- Backup protection is not required with an upstream CB  $\leq 160$  A or up to an  $I_{sccr} \leq 5$  kA rms;
- The impulse current is divided into two independent branch circuits, each branch providing its own disconnecter and Status Indicator;
- Three colour Status Indicator with progressive indication of remaining performance.



## ZOTUPLIMITER | L 25/100 230 t ff

Code		215 100
Nominal voltage	Un	230 V ac
Modes of protection		1
Maximum continuous operating voltage	Uc	335 V ac
Test class according to IEC 61643-11 ed. 1 (2011-03)		I e II
Type according to EN 61643-11 (2012-10)		T1 e T2
Impulse discharge current (10/350 µs)	Iimp	25 kA
Charge	Q	12,5 As
Nominal discharge current (8/20 µs)	In	60 kA
Maximum discharge current (8/20 µs)	I <sub>max</sub>	100 kA
Voltage protection level at a discharge current of: 1 kA	Up	≤ 0,70 kV
Voltage protection level at a discharge current of: 5 kA	Up	≤ 0,82 kV
Voltage protection level at a discharge current of: 13 kA	Up	≤ 0,95 kV
Voltage protection level at a discharge current of: 25 kA	Up	≤ 1,05 kV
Voltage protection level at a discharge current of: 60 kA	Up	≤ 1,40 kV
Response time	ta	≤ 25 ns
Behavior in case of end of life		OCM (open-circuit mode)
Behaviour of failure mode in case of temporary overvoltages (tov)	Ut	440 V / 120 min, tenuta (W)
Short circuit current rating without backup protection (internal disconnecter)	I <sub>sc</sub> cr	5 kA eff
Short circuit current rating with max. backup protection fuse		50 kA eff
Max. Back-up protection with up-stream CB with a max. let-through energy of (max. prospective short circuit current depends on the CB breaking capability).		160 A (max. 4,50 x 10 <sup>-5</sup> A <sup>2</sup> s)
Max. Back-up protection with FUSE at prospective short circuit currents of		250 A gG (> 5 ÷ 50 kA eff) 160/125/100 A gG* (> 50 ÷ 100 kA eff)
Max. overcurrent protection for through-wiring (for V-connection)		125 A gG
Rated load current (for V-connection)	IL	125 A
Follow current interrupt rating	I <sub>fi</sub>	NFC No Follow Current®
Status indicator (indication of disconnecter operation)		3 colours with progressive performance indication
Operating temperature range / Humidity		-40 ... +80 °C (extended) / 5% ... 95%
Terminal - Conductor size (double clamps for V-connection)		4-35 mm <sup>2</sup> flexible / 4-50 mm <sup>2</sup> semi rigid
Busbar connection		fork-type busbar 16 mm <sup>2</sup>
Mounting		indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715
Case material / Flammability grade		BMC / V-0 according to UL 94
Pollution degree / Degree of protection	PD / IP	3 / 20 (built-in)
Approximate weight		395 g
Dimension: width		35 mm (2 modules)
Remote reporting contact		potential-free changeover contact
Terminal - conductor size for remote signal contact		max. 1,5 mm <sup>2</sup> flexible
Switching capacity remote signal contact		ac: 250 V / 0,5 A - dc: 125 V / 0,2 A; 75 V / 0,5 A
Certification / Quality Mark		CB, STC issued by OVE / KEMA-KEUR