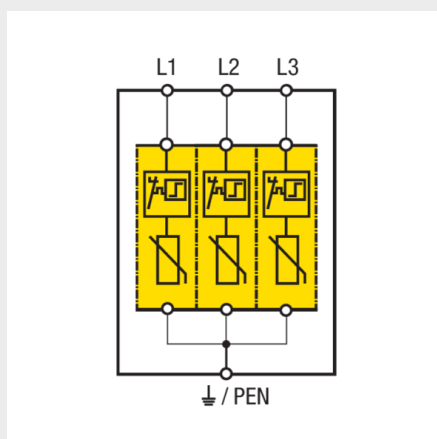
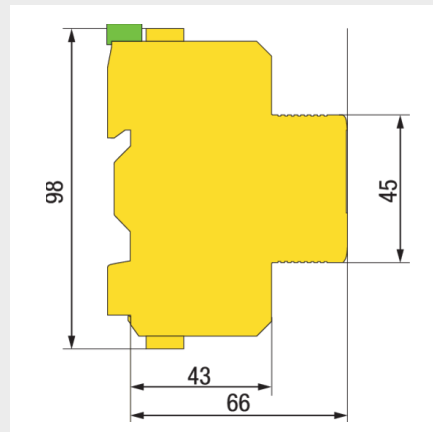
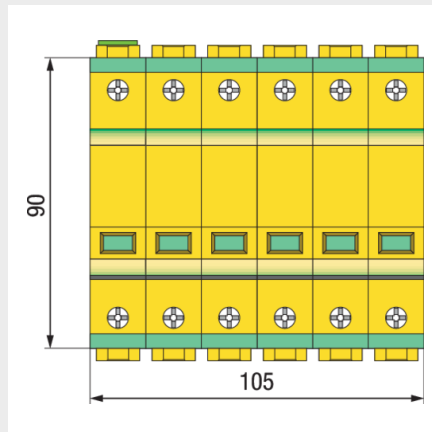


SPDs FOR LOW VOLTAGE ALTERNATING CURRENT (AC) APPLICATION



ZOTUPLIMITER | L 25/100 230 t ff 3

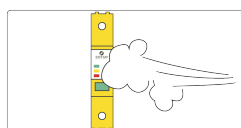
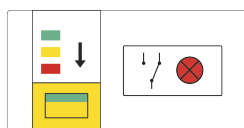
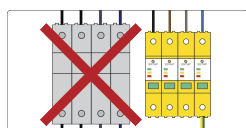


Technical Data

L 25/100 230 t ff 3 is a ready to install assembly of three voltage limiting SPDs providing six modes of protection, typically installed at the origin of the installation, e.g. in the Main Distribution Board (MDB), for three-phase 230/400 V TN-systems.

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 3 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 ≤ 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 disconnector and Status Indicator;
- Three colour Status Indicator with progressive indication of remaining performance.



ZOTUPLIMITER | L 25/100 230 t ff 3

Code		215 130
Nominal voltage	Un	230/400 V ac
Modes of protection		6
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 _{max}	100 kA
Voltage protection level (L-Pen) at a discharge current of: 1 kA	Up	≤ 0,75 kV
Voltage protection level (L-Pen) at a discharge current of: 5 kA	Up	≤ 0,85 kV
Voltage protection level (L-Pen) at a discharge current of: 13 kA	Up	≤ 1,10 kV
Voltage protection level (L-Pen) at a discharge current of: 25 kA	Up	≤ 1,25 kV
Voltage protection level (L-Pen) at a discharge current of: 60 kA	Up	≤ 1,70 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 _{sc}	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. $4,50 \times 10^{-5} \text{ A}^2\text{s}$)
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 _{fi}	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 ² flexible / 4-50 mm ² semi rigid
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		1180 g
Dimension: width		105 mm (6 modules)
Remote reporting contact		potential-free changeover contact
Terminal - conductor size for remote signal contact		max. 1,5 mm ² 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