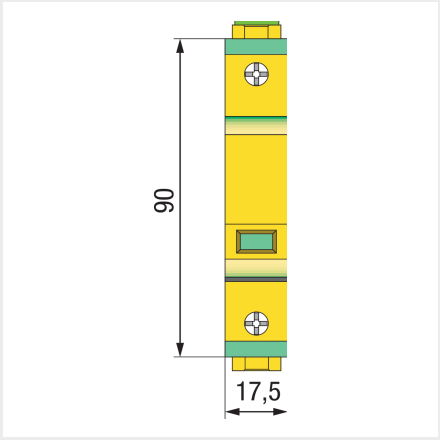
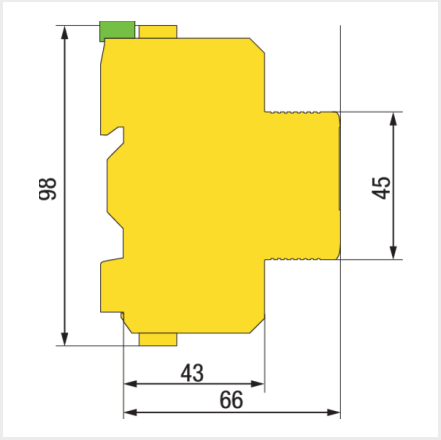
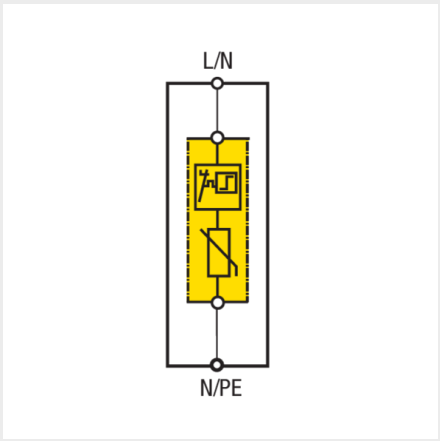
SPDs FOR LOW VOLTAGE ALTERNATING CURRENT (AC) APPLICATION

ZOTUPLIMITER | L 13/40 230 t ff





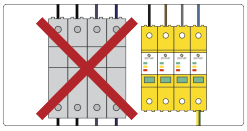


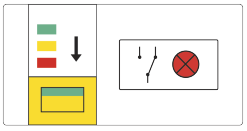
Technical Data

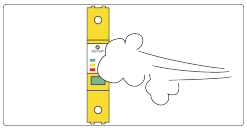
L 13/40 230 ff is a voltage limiting SPD providing a single mode of protection, typically installed at the origin of the installation, e.g. in the Main Distribution Board (MDB), in TN-systems or in TT-systems in combination with N-PE SPD model I 100, I 52 and with connection type CT2 (1+1 or 3+1).

Features and benefits

- L 13/40 230 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 ≤ 160 A or up to an Isccr ≤ 5 kA rms;
- Short circuit current withstand with max. back-up fuse of 100 kA rms;
- Three colour Status Indicator with progressive indication of remaining performance.







ZOTUPLIMITER | L 13/40 230 t ff

Code		214 100
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 IEC 61643-11 Ed.2 (2025) and EN IEC 61643-11 (2025)		T1 e T2
Impulse discharge current (10/350 µs)	Iimp	13 kA
Charge	Q	6,5 As
Nominal discharge current (8/20 µs)	In	35 kA
Maximum discharge current (8/20 µs)	Imax	70 kA
Voltage protection level at a discharge current of: 1 kA	Up	≤ 0,79 kV
Voltage protection level at a discharge current of: 5 kA	Up	≤ 0,90 kV
Voltage protection level at a discharge current of: 15 kA	Up	≤ 1,10 kV
Voltage protection level at a discharge current of: 20 kA	Up	≤ 1,20 kV
Voltage protection level at a discharge current of: 35 kA	Up	≤ 1,50 kV
Response time	ta	≤ 25 ns
End of life		OCM (open-circuit mode)
Behaviour in case of Temporary Overvoltage (TOV)	Ut	440 V / 120 min, tenuta (W)
Short Circuit Current rating without backup protection (internal disconnector)	Isccr	5 kA eff
Max. back-up protection with FUSE at prospective short circuit currents of		100 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 10^5 A^2s)
Max. back-up protection with FUSE at prospective short circuit currents of		160/125 A gG* (> 5 ÷ 100 kA eff)
Follow current interrupt rating	Ifi	NFC No Follow Current®
Status indicator (indication of disconnector 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 on L-terminals)		4-35 mm2 flexible / 4-50 mm2 semi rigid
Busbar connection		fork-type busbar 16 mm2
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		195 g
Dimension: width		17,5 mm (1 module)
Remote signal contact		potential-free changeover contact
Terminal - conductor size for remote signal contact		max. 1,5 mm2 flexible
Swithching 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