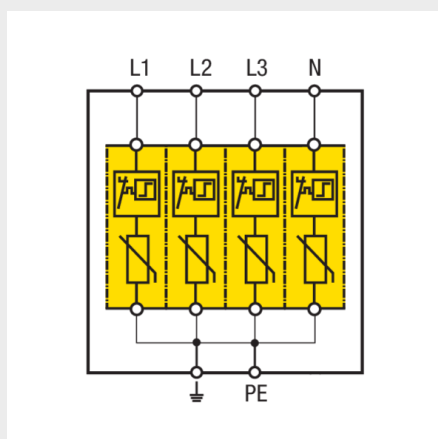
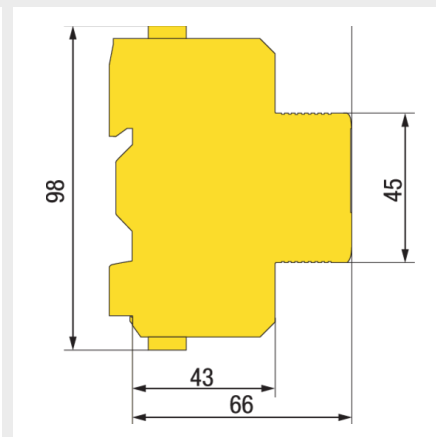
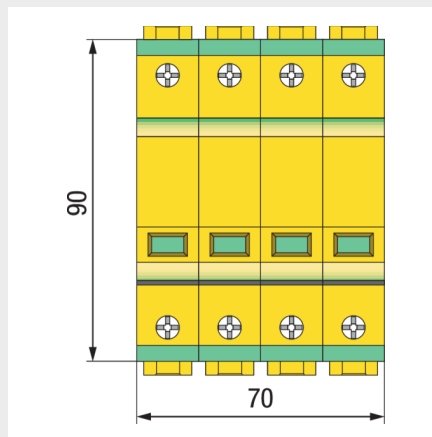


SPDs FOR LOW VOLTAGE ALTERNATING CURRENT (AC) APPLICATION

ZOTUPLIMITER | L 2/10 230 ff 4 TT

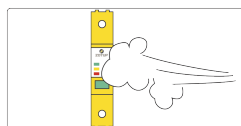
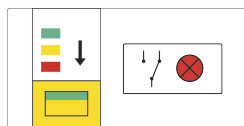
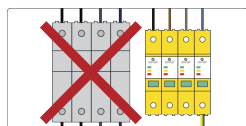


Technical Data

L 2/10 230 230 ff 4 TT is a ready to install assembly of voltage limiting SPDs providing ten modes of protection, typically installed in Sub Distribution Boards (SDBs) for three-phase plus neutral 230/400 V TT-systems downstream a RCD where connection type CT1 (4) is required according to HD 60364-5-534. This SPD is suitable for three-phase plus neutral 230/400 V TN-systems too, when high performances against TOV are required.

Features and benefits

- Impulse test classification: Test class II according to IEC 61643-11 Ed. 1 (2011-03) and Type 2 according to EN 61643-11 (2012-10);
- Backup protection is not required with an upstream CB ≤ 160 A or up to an $I_{scrr} \leq 5$ kA rms;
- Three colour Status Indicator with progressive indication of remaining performance.



ZOTUPLIMITER | L 2/10 230 ff 4 TT

Code		202 240
Nominal voltage	Un	230/400 V ac
Modes of protection		10
Maximum continuous operating voltage	Uc	335 V ac
Test class according to IEC 61643-11 ed. 1 (2011-03)		II
Type according to EN 61643-11 (2012-10)		T2
Nominal discharge current (8/20 μ S) (the nominal discharge current depends on the ACD)	In	10 kA
Maximum discharge current (8/20 μ S) (the nominal discharge current depends on the ACD)	Imax	20 kA
Voltage protection level at a discharge current of: 1 kA	Up	$\leq 0,83$ kV
Voltage protection level at a discharge current of: 5 kA	Up	$\leq 1,00$ kV
Voltage protection level at a discharge current of: 10 kA	Up	$\leq 1,25$ 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): L-PE	Ut	440 V / 120 min (W) 1455 V / 200 ms (S)
Behaviour of failure mode in case of temporary overvoltages (TOV): N-PE	Ut	1200 V / 200 ms (W)
Short circuit current rating without backup protection (internal disconnecter)	Iscrr	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		125 A gG* ($> 5 \div 100$ kA eff)
Follow current interrupt rating	Ifi	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		620 g
Dimension: width		70 mm (4 modules)
Certification / Quality Mark		CB, STC issued by OVE / KEMA-KEUR