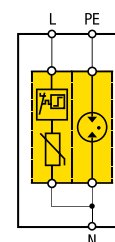
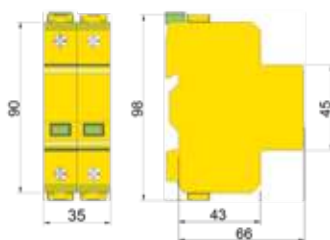


# Surge Protective Devices: ZOTUPLIMITER



# L 3/30 230 ff 1+1

L 3/30 230 ff 1+1 is a ready to install assembly of a voltage limiting and a voltage switching SPD providing two modes of protection, typically installed in Sub Distribution Boards (SDBs) for single-phase 230 V TT-systems where connection type CT2 (1+1) is required according to HD 60364-5-534, with the following 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 Isccr ≤ 5 kA rms;**
- **Three colour Status Indicator with progressive indication of remaining performance.**

Model L 3/30 ...

230 ff 1+1

CODE		200 121
Nominal ac system voltage	U <sub>N</sub>	230 V ac
Modes of protection (number of poles)		1+1 (L-N + N-PE)
Max Continuous Operating Voltage (L-N)	U <sub>c</sub>	335 V ac
Max Continuous Operating Voltage (N-PE)	U <sub>c</sub>	255 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 μs) (L-N)	I <sub>n</sub>	30 kA
Nominal discharge current (8/20 μs) (N-PE)	I <sub>n</sub>	40 kA
Max. discharge current (8/20 μs) (L-N)	I <sub>max</sub>	40 kA
Max. discharge current (8/20 μs) (N-PE)	I <sub>max</sub>	65 kA
Voltage protection level (L-N, L-PE) at a discharge current of:		
1 kA	U <sub>p</sub>	≤ 0,82 kV
5 kA	U <sub>p</sub>	≤ 1,00 kV
10 kA	U <sub>p</sub>	≤ 1,25 kV
20 kA	U <sub>p</sub>	≤ 1,40 kV
30 kA	U <sub>p</sub>	≤ 1,60 kV
Voltage protection level (N-PE)	U <sub>p</sub>	≤ 1,50 kV
Response time (L-N / N-PE)	t <sub>a</sub>	≤ 25 ns / ≤ 100 ns
End of Life (L-N)		OCFM (open circuit failure mode)
Behaviour in case of Temporary OverVoltage (TOV):		
L-N	U <sub>T</sub>	440 V / 120 min, withstand (W)
N-PE	U <sub>T</sub>	1200 V / 200 ms, withstand (W)
Short Circuit Current rating without backup protection (internal disconnecter)	I <sub>sccr</sub>	5 kA rms
Short Circuit Current rating with max. backup protection fuse	I <sub>sccr</sub>	50 kA rms
Max. back-up protection with up-stream CB having 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 FUZE at prospective short circuit currents of		125 A gG (> 5 ÷ 50 kA rms)
Follow current interrupt rating (L-N)	I <sub>fi</sub>	NFC No Follow Current®
Follow current interrupt rating (N-PE)	I <sub>fi</sub>	100 A rms
Status indicator (indication of disconnecter operation) / N-PE (no disconnecter)		3 colours with progressive performance indication / 2 colours for N-PE
Operating temperature range / Humidity		-40 ... +80 °C (extended) / 5% ... 95%
Terminal - Conductor size		4-35 mm <sup>2</sup> flexible / 4-50 mm <sup>2</sup> semi rigid
Mounting		indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715
Case material / Flammability grade		BMC / V-0 in accordance with UL 94
Pollution degree / Degree of protection	PD / IP	3 / 20 (built-in)
Approximate weight		240 g
Dimensions: width		35 mm (2 modules)
Certifications / Quality Mark		CB, STC issued by OVE / KEMA-KEUR
GTIN (EAN)		8054890320443

TECHNICAL DATA

Model L 3/30 ... with remote signal contact

230 t ff 1+1

CODE		210 121
Remote signal 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
GTIN (EAN)		8054890321075