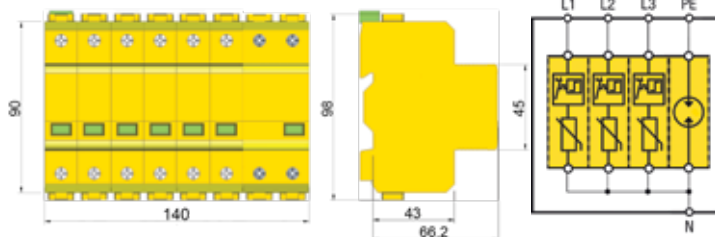
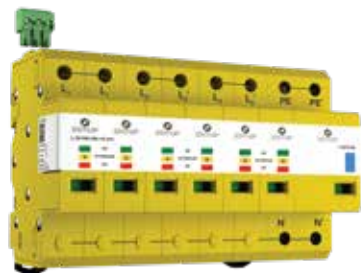


# Surge Protective Devices: ZOTUPLIMITER



# L 25/100 230 t ff 3+1

L 25/100 230 t ff 3+1 is a ready to install assembly of three voltage limiting and a voltage switching SPD providing four modes of protection, typically installed in three-phase plus neutral 230/400 V TT-systems where connection type CT2 (3+1) is required according to HD 60364-5-534, e.g. in the Main Distribution Board (MDB), with the following 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);
- **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 25/100 ... with remote signal contact

230 t ff 3+1

CODE		215 141	
Nominal ac system voltage	U <sub>N</sub>	230/400 V ac	
Modes of protection (number of poles)		3+1 (L1/L2/L3-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)		I and II	
Type according to EN 61643-11 (2012-10)		T1 and T2	
Impulse discharge current (10/350 μs) (L-N)	I <sub>imp</sub>	25 kA	
Impulse discharge current (10/350 μs) (N-PE)	I <sub>imp</sub>	100 kA	
Charge (L-N)	Q	12,5 As	
Charge (N-PE)	Q	50 As	
Nominal discharge current (8/20 μs) (L-N)	I <sub>n</sub>	60 kA	
Nominal discharge current (8/20 μs) (N-PE)	I <sub>n</sub>	100 kA	
Max. discharge current (8/20 μs) (L-N)	I <sub>max</sub>	100 kA	
Max. discharge current (8/20 μs) (N-PE)	I <sub>max</sub>	150 kA	
Voltage protection level (L-N, L-PE) at a discharge current of:			
1 kA	U <sub>p</sub>	≤ 0,75 kV	≤ 1,50 kV
5 kA	U <sub>p</sub>	≤ 0,85 kV	≤ 1,50 kV
13 kA	U <sub>p</sub>	≤ 1,10 kV	≤ 1,50 kV
25 kA	U <sub>p</sub>	≤ 1,25 kV	≤ 1,50 kV
60 kA	U <sub>p</sub>	≤ 1,70 kV	≤ 1,70 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 Voltage (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		250 A gG (> 5 ÷ 50 kA rms) 160/125/100 A gG* (> 5 ÷ 100 kA rms)	
Max. overcurrent protection for through-wiring (V-connection)		125 A gG	
Rated Load Current (for V-connection)	I <sub>L</sub>	125 A	
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 (double clamps for V-connection)		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		1260 g	
Dimensions: width		140 mm (8 modules)	
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	
Certifications / Quality Mark		CB, STC issued by OVE / KEMA-KEUR	
GTIN (EAN)		8054890321419	

TECHNICAL DATA

\* with fuse 160 A gG I<sub>imp</sub>=13 kA and I<sub>max</sub>= 70 kA; with fuse 125 A gG I<sub>imp</sub>= 10 kA and I<sub>max</sub>= 40 kA; with fuse 100 A gG I<sub>imp</sub>=9 kA and I<sub>max</sub>= 30 kA