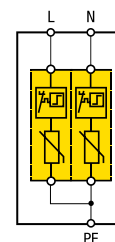
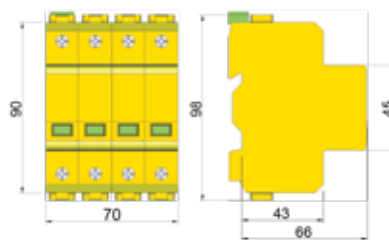


# Surge Protective Devices: ZOTUPLIMITER



# L 25/100 230 t ff 2

L 25/100 230 t ff 2 is a ready to install assembly of two voltage limiting SPDs providing two modes of protection, typically installed at the origin of the installation, e.g. in the Main Distribution Board (MDB), for single-phase 230 V TN-systems, 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);
- L 25/100 230 t ff 2 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<sub>sc</sub> ≤ 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.**

Model L 25/100 ... with remote signal contact

CODE		230 t ff 2
Nominal ac system voltage	U <sub>N</sub>	230 V ac
Modes of protection (number of poles)		2
Max Continuous Operating Voltage	U <sub>c</sub>	335 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)	I <sub>imp</sub>	25 kA
Charge	Q	12,5 As
Nominal discharge current (8/20 μs)	I <sub>n</sub>	60 kA
Max. discharge current (8/20 μs)	I <sub>max</sub>	100 kA
Voltage protection level (L/N-PE) at a discharge current of:		
1 kA	U <sub>p</sub>	≤ 0,75 kV
5 kA	U <sub>p</sub>	≤ 0,85 kV
13 kA	U <sub>p</sub>	≤ 1,10 kV
25 kA	U <sub>p</sub>	≤ 1,25 kV
60 kA	U <sub>p</sub>	≤ 1,70 kV
Response time	t <sub>a</sub>	≤ 25 ns
End of Life		OCFM (Open Circuit Failure Mode)
Behaviour of failure mode in case of Temporary OverVoltage (TOV):	L/N-PE U <sub>T</sub>	440 V / 120 min, withstand (W)
Short Circuit Current rating <u>without backup protection (internal disconnector)</u>	I <sub>sc</sub>	5 kA rms
Short Circuit Current rating with max. backup protection fuse	I <sub>sc</sub>	50 kA rms
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 <sup>5</sup> A <sup>2</sup> s)
Max. back-up protection with FUSE at prospective short circuit currents of		250 A gG (> 5 ÷ 50 kA rms) 160/125/100 A gG* (> 50 ÷ 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	I <sub>fi</sub>	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)		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		630 g
Dimensions: width		70 mm (4 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)		8054890321372

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