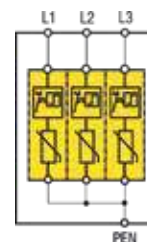
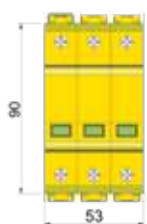




Surge Protective Devices: ZOTUPLIMITER



L 13/40 230 ff 3

L 13/40 230 ff 3 is a ready to install assembly of three voltage limiting SPDs providing three modes of protection, typically installed at the origin of the installation, e.g. in the Main Distribution Board (MDB), for three-phase 230/400 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 13/40 230 ff 3 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_{sc} ≤ 5 kA rms;**
- **Three colour Status Indicator with progressive indication of remaining performance.**

Model L 13/40 ...

CODE		230 ff 3	204 130
Nominal ac system voltage	U _N	230/400 V ac	
Modes of protection (number of poles)		3	
Max Continuous Operating Voltage	U _c	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 _{imp}	13 kA	
Charge	Q	6,5 As	
Nominal discharge current (8/20 μs)	I _n	35 kA	
Max. discharge current (8/20 μs)	I _{max}	70 kA	
Voltage protection level at a discharge current of:			
1 kA	U _p	≤ 0,80 kV	
5 kA	U _p	≤ 0,93 kV	
13 kA	U _p	≤ 1,15 kV	
20 kA	U _p	≤ 1,25 kV	
35 kA	U _p	≤ 1,50 kV	
Response time	t _a	≤ 25 ns	
End of Life		OCFM (Open Circuit Failure Mode)	
Behaviour in case of Temporary OverVoltage (TOV)	U _T	440 V / 120 min, withstand (W)	
Short Circuit Current rating <u>without backup protection (internal disconnecter)</u>	I _{sc}	5 kA rms	
Short Circuit Current rating with max. backup protection fuse	I _{sc}	100 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 ⁵ A ² s)	
Max. back-up protection with FUSE at prospective short circuit currents of		160/125 A gG* (> 5 ÷ 100 kA rms)	
Follow current interrupt rating	I _{fi}	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		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 in accordance with UL 94	
Pollution degree / Degree of protection	PD / IP	3 / 20 (built-in)	
Approximate weight		420 g	
Dimensions: width		53 mm (3 modules)	
Certifications / Quality Mark		CB, STC issued by OVE / KEMA-KEUR	
GTIN (EAN)		8054890320689	

TECHNICAL DATA

Model L 13/40 ... with remote signal contact

CODE		230 t ff 3	214 130
Remote signal contact		potential-free changeover contact	
Terminal - conductor size for remote signal contact		max. 1,5 mm ² 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)		8054890321310	

*with fuse 125 A gG I_{imp}= 10 kA and I_{max}= 40 kA