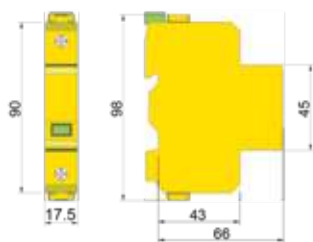




Surge Protective Devices: ZOTUPLIMITER



L 13/40 230 ff

L 13/40 230 ff is a voltage limiting SPD providing a single mode of protection, typically installed at the origin of the installation, e.g. in the Main Distribution Board (MDB), in TN-systems or in TT-systems in combination with N-PE SPD model I 100, I 52 and with connection type CT2 (1+1 or 3+1). It provides 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 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 Isccr ≤ 5 kA rms;**
- Short circuit current withstand of 100 kA rms with max. back-up fuse;
- **Three colour Status Indicator with progressive indication of remaining performance.**

Model L 13/40 ...

CODE		230 ff	204 100
Nominal ac system voltage	U_N		230/400 V ac
Modes of protection (number of poles)			1
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 μ s)	I_{imp}		13 kA
Charge	Q		6,5 As
Nominal discharge current (8/20 μ s)	I_n		35 kA
Max. discharge current (8/20 μ s)	I_{max}		70 kA
Voltage protection level at a discharge current of:			
1 kA	U_p		≤ 0,79 kV
5 kA	U_p		≤ 0,90 kV
13 kA	U_p		≤ 1,10 kV
20 kA	U_p		≤ 1,20 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 without backup protection (internal disconnecter)	I_{sccr}		5 kA rms
Short Circuit Current rating with max. backup protection fuse	I_{sccr}		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. $4,50 \times 10^5 A^2s$)
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
Busbar connections			fork-type busbar 16 mm ²
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			140 g
Dimensions: width			17,5 mm (1 module)
Certifications / Quality Mark			CB, STC issued by OVE / KEMA-KEUR
GTIN (EAN)			8054890320658

TECHNICAL DATA

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

CODE		230 t ff	214 100
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)			8054890321235

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