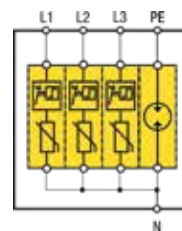
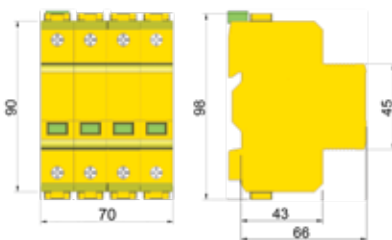


# Surge Protective Devices: ZOTUPLIMITER



# L 7/30 230 ff 3+1

L 7/30 230 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 7/30 ...

230 ff 3+1

CODE			207 141
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>		8 kA
Impulse discharge current (10/350 μs) (N-PE)	I <sub>imp</sub>		52 kA
Charge (L-N)	Q		4 As
Charge (N-PE)	Q		26 As
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>		52 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>		70 kA
Voltage protection level (L-N, L-PE) at a discharge current of:			
1 kA	U <sub>p</sub>	≤ 0,81 kV	≤ 1,50 kV
5 kA	U <sub>p</sub>	≤ 0,98 kV	≤ 1,50 kV
20 kA	U <sub>p</sub>	≤ 1,35 kV	≤ 1,50 kV
25 kA	U <sub>p</sub>	≤ 1,45 kV	≤ 1,50 kV
30 kA	U <sub>p</sub>	≤ 1,60 kV	≤ 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>		100 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 FUSE at prospective short circuit currents of			125 A gG (> 5 ÷ 100 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			520 g
Dimensions: width			70 mm (4 modules)
Certifications / Quality Mark			CB, STC issued by OVE / KEMA-KEUR
GTIN (EAN)			8054890320825

TECHNICAL DATA

Model L 7/30 ... with remote signal contact

230 t ff 3+1

CODE			217 141
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)			8054890321587