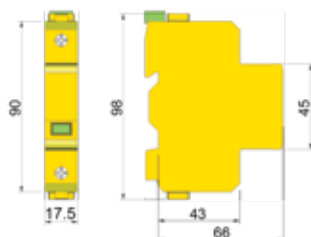




Surge Protective Devices: ZOTUPLIMITER



L 7/30 ... ff

L 7/30 ... 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 (3+1 or 1+1). Additional models are also available for the protection of wind turbines. 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);
- **Backup protection is not required with an upstream CB ≤ 160 A or up to an $I_{scrr} \leq 5$ kA rms (for U_n 230/400 V);**
- **Three colour Status Indicator with progressive indication of remaining performance.**

Model L 7/30 ...		230 ff	400 ff	600 ff	750 ff	1000 ff
CODE		207 100	207 104	207 106	207 107	207 110
Nominal ac system voltage	U_n	230/400 V ac	400/690 V ac	480/830 V ac	554/960 V ac	554/960 V ac
Modes of protection (number of poles)		1				
Max Continuous Operating Voltage	U_c	335 V ac	460 V ac	690 V ac	750 V ac	1000 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}	8 kA	7 kA	5 kA		2 kA
Charge	Q	4,0 As	3,5 As	2,5 As		1 As
Nominal discharge current (8/20 μ s)	I_n	30 kA		25 kA	20 kA	20 kA
Max. discharge current (8/20 μ s)	I_{max}	40 kA				
Voltage protection level at a discharge current of:						
1 kA	U_p	$\leq 0,80$ kV	$\leq 1,20$ kV	$\leq 1,75$ kV	$\leq 1,85$ kV	$\leq 3,00$ kV
5 kA	U_p	$\leq 0,96$ kV	$\leq 1,46$ kV	$\leq 2,15$ kV	$\leq 2,25$ kV	$\leq 3,50$ kV
15 kA	U_p	$\leq 1,30$ kV	$\leq 1,90$ kV	$\leq 2,72$ kV	$\leq 2,75$ kV	$\leq 4,20$ kV
20 kA	U_p	$\leq 1,35$ kV	$\leq 1,95$ kV	$\leq 2,80$ kV	$\leq 2,85$ kV	$\leq 4,40$ kV
25 kA	U_p	$\leq 1,40$ kV	$\leq 2,03$ kV	$\leq 2,90$ kV	-	-
30 kA	U_p	$\leq 1,50$ kV	$\leq 2,15$ kV	-	-	-
Response time	t_a	≤ 25 ns				
End of Life		OCFM (Open Circuit Failure Mode)				
Behaviour in case of Temporary OverVoltage (TOV) withstand (W) / safe (S):	5 s / 120 min	U_T 440 V, (W) / 440 V, (S)	581 V, (W) / 797 V, (S)	697 V, (W) / 915 V, (S)	805 V, (W) / 1056 V, (S)	1452 V, (W) / 1930 V, (S)
Short Circuit Current rating without backup protection (internal disconnecter)	I_{scrr}	5 kA rms	3 kA rms	2 kA rms	2 kA rms	2 kA rms
Short Circuit Current rating with max. backup protection fuse	I_{scrr}	100 kA rms	100 kA rms	100 kA rms	100 kA rms	100 kA rms
Max. back-up protection with up-stream CB with max. let-through energy of (max. prospective short circuit current depends on CB breaking capability)		160 A (max. $4,5 \times 10^5$ A ² s)	160 A (max. $4,5 \times 10^5$ A ² s)	-	-	-
Max. back-up protection with FUSE at prospective short circuit current of		125 A gG at ($>5 \div 100$ kA rms)	125 A gG at ($>3 \div 100$ kA rms)	125 A gG at ($>2 \div 100$ kA rms)	125 A gG at ($>2 \div 100$ kA rms)	100 A aM ($>2 \div 100$ 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)		2 / 20 (built-in)		
Approximate weight		130 g	175 g	180 g	190 g	190 g
Dimensions: width		17,5 mm (1 module)				
Certifications / Quality Mark		CB, STC issued by OVE / KEMA-KEUR				CTI Test Report
GTIN (EAN)		8054890320733	8054890320740	8054890320757	8054890320764	8054890321778

TECHNICAL DATA

Model L 7/30 ... with remote signal contact		230 t ff	400 t ff	600 t ff	750 t ff	1000 t ff
CODE		217 100	217 104	217 106	217 107	217 110
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)		8054890321495	8054890321501	8054890321518	8054890321525	8054890321785