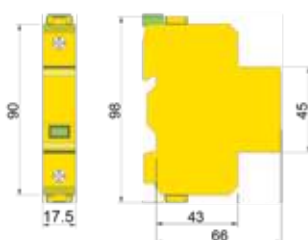


Surge Protective Devices: ZOTUP SPDs for low voltage



L 3/30 ... ff

L 3/30 ... ff is a voltage limiting SPD providing a single mode of protection, typically installed in Sub Distribution Boards (SDB), in TN-systems or in TT-systems in combination with N-PE SPD model I 100, I 52 or I 12 and with connection type CT2 (1+1 or 3+1). It provides the following features and benefits:

- **Impulse test classification: Test class II / Type 2** (according to IEC/EN 61643-11);
- L 3/30 ... ff is a voltage limiting SPD for the protection of low voltage installations and equipment against indirect lightning effects;
- **Backup protection is not required with an upstream MCB ≤ 125 A or up to an $I_{sccr} \leq 4$ kA rms (for U_n 230/400 V);**
- Short circuit current withstand of 50 kA rms with max. back-up fuse;
- **Three colour Status Indicator with progressive indication of remaining performance.**

Model L 3/30 ...

		60 ff	120 ff	230 ff	400 ff
CODE		200 102	200 103	200 100	200 104
Nominal ac system voltage	U_n	60/104 V ac	120/208 V ac	230/400 V ac	400/690 V ac
Modes of protection (number of poles)		1			
Max Continuous Operating Voltage	U_c	75 V ac	150 V ac	335 V ac	460 V ac
Test Class (acc. to IEC 61643-11 Ed. 1.0 2011-03)		II			
Type (acc. to EN 61643-11 2012-10)		T2			
Nominal discharge current (8/20 μ s)	I_n	20 kA	20 kA	30 kA	30 kA
Max. discharge current (8/20 μ s)	I_{max}	30 kA	30 kA	40 kA	40 kA
Voltage protection level at a discharge current of:	1 kA	$U_p \leq 0,22$ kV	$U_p \leq 0,42$ kV	$U_p \leq 0,85$ kV	$U_p \leq 1,20$ kV
	5 kA	$U_p \leq 0,28$ kV	$U_p \leq 0,50$ kV	$U_p \leq 1,00$ kV	$U_p \leq 1,45$ kV
	10 kA	$U_p \leq 0,36$ kV	$U_p \leq 0,60$ kV	$U_p \leq 1,20$ kV	$U_p \leq 1,58$ kV
	20 kA	$U_p \leq 0,50$ kV	$U_p \leq 0,80$ kV	$U_p \leq 1,35$ kV	$U_p \leq 1,90$ kV
	30 kA	-	-	$U_p \leq 1,50$ kV	$U_p \leq 2,15$ kV
Response time	t_a	≤ 25 ns			
End of Life		OCFM (Open Circuit Failure Mode)			
Temporary OverVoltage (TOV) withstand	U_T	115 V / 120 min	230 V / 120 min	440 V / 120 min	760 V / 120 min
Short Circuit Current rating without backup protection (internal disconnecter)	I_{sccr}	4 kA rms			3 kA rms
Short Circuit Current rating with max. backup protection fuse	I_{sccr}	50 kA rms			
Max. back-up protection with up-stream MCB with max. let-through energy of (max. prospective short circuit current depends on MCB breaking capability)		125 A (max. $4,80 \times 10^5$ A ² s)	125 A (max. $4,80 \times 10^5$ A ² s)	125 A (max. $4,50 \times 10^5$ A ² s)	125 A (max. $4,50 \times 10^5$ A ² s)
Max. back-up protection with FUSE at prospective short circuit current of		125 A gG at ($> 4 \div 50$ kA rms)	125 A gG at ($> 4 \div 50$ kA rms)	125 A gG at ($> 4 \div 50$ kA rms)	125 A gG at ($> 3 \div 50$ kA rms)
Follow current interrupt rating	I_{fi}	NFC No Follow Current®			
Status indicator (indication of disconnecter operation)		3 colors with progressive performance indication			
Operating temperature range / Humidity		-40 ... +80 °C (extended) / 5% ... 95%			
Terminal - Conductor size		4-35 mm ² flexible			
Busbar connections		fork-type busbar 16 mm ²			
Mounting		indoor, 35 mm top hat DIN rail			
Case material / Flammability grade		BMC / V-0 in accordance with UL 94			
Pollution degree	PD	3			
Degree of protection	IP	20 (built-in)			
Approximate weight		120 g	140 g	160 g	175 g
Dimensions: width		17,5 mm (1 module)			
Certifications / Quality Mark		CB, STC issued by OVE / Kema-keur			

TECHNICAL DATA

Model L 3/30 ... with remote signal contact

		60 t ff	120 t ff	230 t ff	400 t ff
CODE		210 102	210 103	210 100	210 104
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			