TECHNICAL DATA



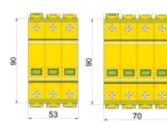


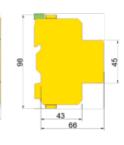


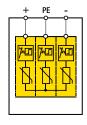
Surge Protective Devices: **ZOTUPLIMITER**











Code 216 106

Code 216 110

L 13/60 PV Y ... ff is a voltage limiting SPD for photovoltaic systems providing three modes of protection, typically installed close to the PV inverter, close to the PV generator and/or in the junction box, with the following features and benefits:

- Impulse test classification: Test Class I and II according to IEC 61643-31 Ed.1 (2018-01) and Type 1 and Type 2 according to EN 61643-31 (2019-05);
- High short circuit current rating without backup protection Iscpv = 1000 A according to IEC 61643-31;
- High short circuit current rating without backup protection, additionally tested based on IEC/EN 61643-11;
- Three colour Status Indicator with progressive indication of remaining performance;
- Upon request the L 13/60 PV Y ... ff type SPD can be supplied with other ratings for discharge current and Max. **Continous Operating Voltage.**

Model L 13/60 PV Y			600 ff	1000 ff	
CODE			216 106	216 110	
Maximum Continous Operating Voltage (all modes)		U_{CPV}	600 V	1000 V	
Modes of protection (number of poles)			3		
Type (acc. to IEC/EN 61643-31)			T1+T2		
Impulse discharge current (10/350 µs) (all modes)		l _{imp}	7 kA	5 kA	
Nominal discharge current (8/20 µs) (all modes)		In	20,0 kA		
Total discharge current (10/350 µs) DC+ and DC- to PE		Total 10/350	13 kA	10 kA	
Total discharge current (8/20 µs) DC+ and DC- to PE		Total 8/20	35,0 kA	40,0 kA	
Max. discharge current (8/20 µs)		Imax	70,0 kA		
Voltage protection level at a discharge current of (all modes)	1 kA	Up	≤ 1,60 kV	≤ 2,60 kV	
	5 kA	Up	≤ 1,90 kV	≤ 3,10 kV	
	10 kA	U_p	≤ 2,10 kV	≤ 3,30 kV	
	15 kA	Up	≤ 2,40 kV	≤ 4,00 kV	
	20 kA	Up	≤ 2,50 kV	≤ 4,20 kV	
desponse time		ta	≤ 25 ns		
End of life			OCFM (open circuit failure mode)		
Short-circuit current rating (acc. to IEC 61643-31)		Iscpv	1000 A		
Short-circuit current rating (based on IEC/EN 61643-11)		Iscor	500 A	200 A	
Follow current interrupt rating			NFC No Follow Current®		
Status indicator			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 according to UL 94		
Pollution degree / Degree of protection		PD / IP	· ·	2 / 20 (built-in)	
Approximate weight			420 g	700 g	
Dimensions: width			53 mm (3 modules)	70 mm (4 modules)	
GTIN (EAN)			8054890321242	8054890321259	

Model L 13/60 PV Y with remote signal contact	600 t ff	1000 t ff		
CODE	216 116	216 126		
Remote signal contact	potential-free cha	potential-free changeover contact		
Terminal - conductor size for remote signal contact	max. 1,5 m	max. 1,5 mm ² flexible		
Switching capacity remote signal contact	ac: 250 V / 0,5 A - dc: 12	ac: 250 V / 0,5 A - dc: 125 V / 0,2 A; 75 V / 0,5 A		
GTIN (EAN)	8054890321273	8054890321303		