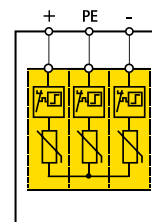
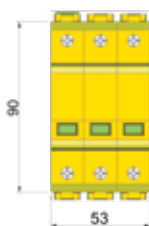




# Surge Protective Devices: ZOTUPLIMITER



L 3/40 PV Y ... ff

L 3/40 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 II** according to IEC 61643-31 Ed.1 (2018-01) and **Type 2** according to EN 61643-31 (2019-05);
- **High short circuit current rating without backup protection**  $I_{scpv} = 1000 \text{ A}$  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. Continuous Operating Voltage.**

Model L 3/40 PV Y ...

600 ff

1000 ff

CODE		210 106	210 110
Maximum Continuous Operating Voltage (all modes)	$U_{cpv}$	600 V	1000 V
Modes of protection (number of poles)		3	
Type (acc. to IEC/EN 61643-31)		T2	
Nominal discharge current (8/20 $\mu$ s) (all modes)	$I_n$	20,0 kA	
Total discharge current (8/20 $\mu$ s) DC+ and DC- to PE	$I_{total \ 8/20}$	30,0 kA	
Max. discharge current (8/20 $\mu$ s)	$I_{max}$	40,0 kA	
Voltage protection level at a discharge current of (all modes)	1 kA	$U_p \leq 1,70 \text{ kV}$	$\leq 2,70 \text{ kV}$
	5 kA	$U_p \leq 2,10 \text{ kV}$	$\leq 3,20 \text{ kV}$
	10 kA	$U_p \leq 2,50 \text{ kV}$	$\leq 3,40 \text{ kV}$
	15 kA	$U_p \leq 2,70 \text{ kV}$	$\leq 4,10 \text{ kV}$
	20 kA	$U_p \leq 2,80 \text{ kV}$	$\leq 4,30 \text{ kV}$
Response time	$t_a$	$\leq 25 \text{ ns}$	
End of life		OCFM (open circuit failure mode)	
Short-circuit current rating (acc. to IEC 61643-31)	$I_{scpv}$	1000 A	
Short-circuit current rating (based on IEC/EN 61643-11)	$I_{sccr}$	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 <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 according to UL 94	
Pollution degree / Degree of protection	PD / IP	2 / 20 (built-in)	
Approximate weight		330 g	450 g
Dimensions: width		53 mm (3 modules)	
GTIN (EAN)		8054890321020	8054890321037

TECHNICAL DATA

Model L 3/40 PV Y ... with remote signal contact

600 t ff

1000 t ff

CODE		210 116	210 126
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)		8054890321051	8054890321082