TECHNICAL DATA









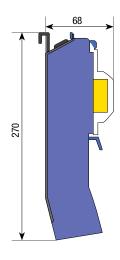


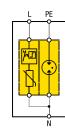














LLP (LED Lighting Protection) systems is a ready to install assembly of a voltage limiting and a voltage switching SPD providing two modes of protection in a protective housing, with the following features and benefits:

- Impulse test classification: Test Class II according to IEC 61643-11(2011-03) and Type 2 according to EN 61643-11 (2012-10);
- Combination type SPD for the protection of street lighting luminaires against indirect lightning effects;
- Backup protection is not required with an upstream CB ≤ 160 A or up to an Isccr ≤ 5 kA rms;
- Easy wiring inside of the openings at the pole base with a size of 186 x 45 mm (minimum diameter of the pole 101 mm);
- The special SPD case material allows to match with "Pollution Degree 3" requirements.

Model LLP 2/10			230 ff 1+1		
CODE			242 19	0	
Nominal ac system voltage		Un	230/400 V ac		
Modes of protection (number of poles)			1+1 (L-N + N-PE)		
Max Continuous Operating Voltage (L-N)		Uc	335 V ac		
Max Continuous Operating Voltage (N-PE)		Uc	255 V ac		
Test Class according to IEC 61643-11 Ed.1 (2011-03)					
Type according to EN 61643-11 (2012-10)			T2		
Nominal discharge current (8/20 µs) (L-N)		l _n	10 kA		
Nominal discharge current (8/20 µs) (N-PE)		l _n	40 kA		
fax. discharge current (8/20 μs) (L-N)		lmax	20 kA		
Max. discharge current (8/20 μs) (N-PE)		lmax	65 kA		
Voltage protection level (L-N, L-PE) at a discharge current of	1 kA	Up	≤ 0,87 kV	≤ 1,50 kV	
	5 kA	Up	≤ 1,00 kV	≤ 1,50 kV	
	10 kA	Up	≤ 1,25 kV	≤ 1,50 kV	
Voltage protection level (N-PE)		Up	≤ 1,50 kV		
Response time (L-N / N-PE)		ţa	≤ 25 ns / ≤ 100 ns		
End of life			OCFM (open circuit failure mode)		
Behaviour of failure mode in case of Temporary OverVoltage (TOV):	L-N	UT	440 V / 120 min, withstand (W)		
		UT	1200 V / 200 ms, withstand (W)		
Short Circuit Current rating without backup protection (internal disconnector)		sccr	5 kA rms		
Short Circuit Current rating with max. backup protection fuse (L)		sccr	100 kA rms		
Max. back-up protection with up-stream CB with a max. let-through energy of			160 A (max. 4,50 x 10 ⁵ A ² s)		
(max. prospective short circuit current depends on the CB breaking capability).					
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)		fi	NFC No Follow Current®		
Follow current interrupt rating (N-PE)		l fi	100 A rms		
Status indicator (indication of disconnector operation)			3 coloured levels with progressive performance indication		
Operating temperature range / Humidity			-40 +80 °C (extended) / 5% 95%		
Terminal-Conductor size			4-35 mm² flexible / 4-50 mm² semi rigid		
Mounting			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 / 54 (built-in)		
Approximate weight			260 g		
			I 68 x h 270 x d 44 mm		
Dimensions			l 68 x h 270 x	d 44 mm	
Dimensions Certifications / Quality Mark			l 68 x h 270 x CB, STC issued by OV		