

# One-phase Luminaire Protection Devices – Type 3 with Protection of Control Phase or DALI Interface

## For electronic devices

These protective components are fitted with internal thermal fuses. The protective component will be disconnect from the mains at the end of the internal varistors' life or if there is a permanently overvoltage.  
In that case the green LED goes out and the protective component has to be replaced.

Suitable for luminaires of protection class I  
Dimensions (LxWxH): 79x45x35 mm  
Fixing threaded bolt on request  
Push-in terminals: 0.2-2.5 mm<sup>2</sup>  
Permitted casing temperature: -35 to 80 °C  
With integrated thermal fuse  
Fuse: max. 16 A  
Max. residual current (I<sub>PE</sub>): 1 µA  
Degree of protection: IP20

AC-system: TT-TN-IT  
Temporary overvoltage  
• (TOV)-LV: 443 V AC (5 sec.) / 443 V (120 min.)  
• (TOV)-MV/HV: 1200 V AC (200 msec.)  
I<sub>scrr</sub>: 1000 A

### SPC3/230/10K/i LS

One-phase overvoltage protection for control phase  
Comply with the requirements of EN 61643-11  
Weight: 69/79 g

Ref. No.: 142755

### SPC3/230/10K/i LS DI

With integrated coordination circuit

Ref. No.: 142756

### SPC3/230/10K/i DALI

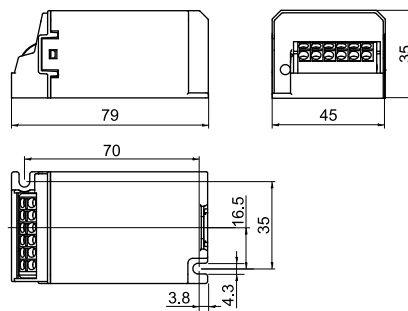
One-phase overvoltage protection for L, N, PE and for protection of DALI signal  
Comply with the requirements of EN 61643-11 and EN 61643-21  
Weight: 57/67 g

Ref. No.: 142753

### SPC3/230/10K/i DALI DI

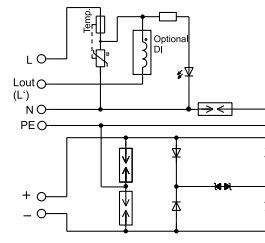
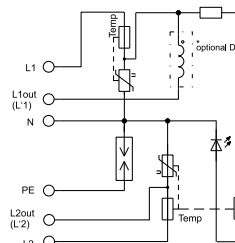
With integrated coordination circuit

Ref. No.: 142754



SPC3/230/10K/i LS

SPC3/230/10K/i DALI DI



Type	Ref. No.	Voltage 50/60 Hz V ± 10 %	Max. load current A	Protection level			Max. impulse voltage U <sub>OC</sub> (V)	Discharge current* (8/20 µs) I <sub>N</sub> (A)   I <sub>max</sub> (A)	Protection voltage DALI		
				L-N (V)	L-PE (V)	L2-N (V)			d+ to d- Channel 1	d1/d2 to PE Channel 2	Capacity d+ to d- pF
SPC3/230/10K/i LS	142755	100-277	5	< 1500	< 1900	< 1600	10000	5000   10000	—	—	—
SPC3/230/10K/i LS DI	142756	100-277	2.5	< 1500	< 1900	< 1600	10000	5000   10000	—	—	—
SPC3/230/10K/i DALI	142753	100-277	5	< 1500	< 1900	—	10000	5000   10000	< 70	< 1000	< 20
SPC3/230/10K/i DALI DI	142754	100-277	2.5	< 1500	< 1900	—	10000	5000   10000	< 70	< 1000	< 20

\* Discharge current: at I<sub>N</sub> min. 15 strikes; at I<sub>max</sub>. 1 strike

## Integrated Coordination Circuit

In contrast to standard protective components, the SPC3...DI components feature an integrated coordination circuit. Coordination means that the highest share of the energy applied to luminaires in the form of high-voltage pulses is discharged, which in turn ensures the protective components within the LED driver are subjected to only minimal voltage loads. This coordination can be checked by carrying out a high-voltage test on the luminaires.

A decoupling inductor is also available as a separate product, which must be wired in between the protective component and the LED driver.

Type: DI-5A

Ref. No.: 149830



The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.