

## PART NO: KM1+2-12.5-3+1 SC

**TYPE:** Type 1+2 lightning current and surge arrester

**DESCRIPTION:** Combination of varistor SPD and encapsulated spark gap connected in the 3 + 1 mode. Use in TT system main distribution boards on the boundary of LPZ0 and LPZ1 and sub-distribution boards on the boundary of LPZ1 and LPZ2 (if >100m away from the MDB).

Suitable for houses, commercial and industrial buildings.

**RATING:** 12.5kA THREE PHASE TT



### LPL I + II

**SYSTEM:** THREE PHASE TT

**MDB:** -

**SDB:** BOUNDARY of LPZ1 & LPZ2 (if >50m away from MDB)

### LPL III + IV

**SYSTEM:** THREE PHASE TT

**MDB:** BOUNDARY of LPZ0 & LPZ1

**SDB:** BOUNDARY of LPZ1 & LPZ2 (if >50m away from MDB)

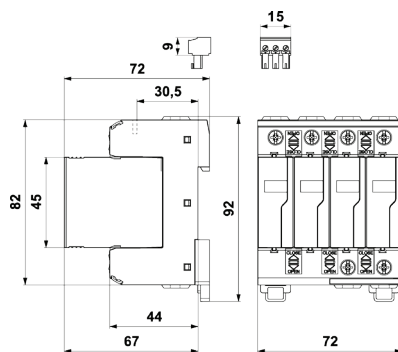
### Standards

BS:EN 62305 (lightning protection) and EN 61643-11 (surge protection devices).

### Electrical specification

Order number	KM1+2-12.5-3+1 SC	
<b>System</b>	<b>3 phase TT/4 pole</b>	
Nominal voltage	$U_n$	230V AC
Nominal voltage	$U_o$	230V/400V AC $\pm$ 10%
Maximum operating voltage L-N	$U_c$	275V AC
Maximum operating voltage N-PE	$U_c$	255V AC
Lightning impulse current (10/350 $\mu$ s) L-N	$I_{imp}$	12.5kA
Lightning impulse current (10/350 $\mu$ s) N-PE	$I_{imp}$	50kA
Nominal discharge current (8/20 $\mu$ s) L-N	$I_n$	30kA
Nominal discharge current (8/20 $\mu$ s) N-PE	$I_n$	50kA
Maximum discharge current (8/20 $\mu$ s) L-N	$I_{max}$	60kA
Maximum discharge current (8/20 $\mu$ s) N-PE	$I_{max}$	100kA
Voltage protection level at 5kA L-N	$U_p$	0.9kV
Voltage protection level L-N/N-PE/L-PE	$U_p$	1.5kV
Short-circuit current rating	$I_{SCCR}$	50kA
Maximum overcurrent protection		160A gL/gG
Response time L-N	$t_a$	25ns
Response time N-PE	$t_a$	100ns
Cross-section of connected conductors solid (min - max)		1mm <sup>2</sup> - 35mm <sup>2</sup>
Cross-section of connected conductors stranded (min - max)		1mm <sup>2</sup> - 25mm <sup>2</sup>
Fault indication L-N		Red indication field
Remote indication		Potential-free change-over contact
Remote indication contacts		250V/0.5A AC, 250V/0.1A DC
Cross-section of remote indication conductors		1.5mm <sup>2</sup>
Degree of protection		IP20
Range of operating temperatures (min - max)		-40°C - +80°C
Mounting		DIN rail 35mm
According to standard		EN 61643-11:2012, IEC 61643-11:2011 / T1, T2
Weight		545g (nett), 595g (gross)

### Dimensions:



### Wiring diagram:

