SURGE PROTECTION

Surge arrester for Power over Ethernet

Combination of coarse and fine protection of ethernet lines with Power over Ethernet (PoE). For protection of ethernet line Cat 6 with PoE Mode A, B against surge voltages.

Features

- RJ45 sockets
- Suitable for use on 10 Gbits/s Ethernet (Cat 6A) lines

Benefits

- Simple installation
- Universal plastic adapter for mounting on DIN rail and GND 2 holder

Application

Install at the entry into the building and close to protected equipment, at the boundary of LPZ0 and LPZ1 or higher.

Standards

EN 61643-11 (for surge protection devices).

Type: D1, C2, C3
Location: ST 1+2+3

Electrical specification

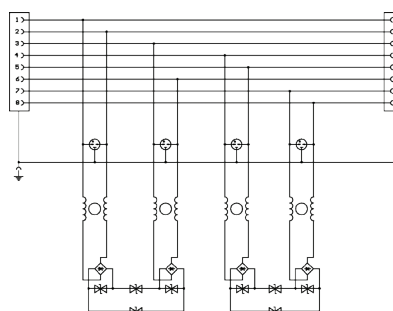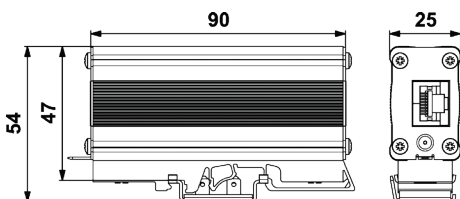| Order number	KM-DL-1G-RJ45-PoE-AB
Degree of protection	IP20
Range of operating temperatures (min - max)	-40°C - +80°C
Mounting	DIN rail 35mm and GND2 holder
According to standard	EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012 / D1, C2, C3
ETIM Class	EC 001473
Weight	135g (nett), 155g (gross)

Line part

Maximum operating voltage	U_c	8.5V DC
Nominal load current	I_L	0.5A
C2 Nominal discharge current (8/20µs) per core	I_n	0.15kA
C2 Nominal discharge current (8/20µs) cores-PE	I_{Total}	10kA
C2 Voltage protection level mode core-core at ln	U_p	60V
C3 Voltage protection level mode core-core at 1kV/µs	U_p	22V
C3 Voltage protection level mode core-PE at 1kV/µs	U_p	500V
D1 total discharge current (10/350µs) cores P-E	I_{Total}	2kA
Response time core-core	t_a	1ns
Response time core-PE	t_a	100ns
Insert attenuation at 250MHz		1.20dB
Connection (input - output)		RJ45/RJ45

Power part

Maximum operating voltage	U_c	58V DC
Nominal load current	I_L	1.5A
C2 Nominal discharge current (8/20µs) per core	I_n	0.15kA
C2 Nominal discharge current (8/20µs) cores-PE	I_{Total}	10kA
C2 Voltage protection level mode (POE) at ln		90V
C3 Voltage protection level mode (POE) at 1kV/µs		80V
C3 Voltage protection level mode core-PE at 1kV/µs	U_p	500V
Response time core-core	t_a	1ns
Response time core-PE	t_a	100ns

Dimensions and wiring diagram

KM-DL-1G-RJ45-PoE-AB