

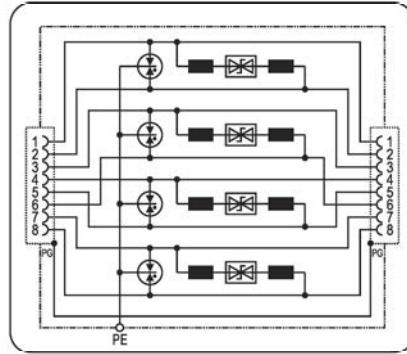
EtherNET Surge Protector SPD

8POE-SP (Board)

Modules designed for 19" enclosure POE-RM-08



Basic circuit diagram:



CE RJ45 / CAT6
NET Protector

• Technical data

Type		8POE-SP
Nominal voltage	UN	48V-
Rated voltage (max. continuous voltage)	Uc	48V-/34V-
Max. continuous voltage (PoE)	Uc	57V-
Nominal current	I _n	1A
Lightning impulse current(10/350)	I _{imp}	0.5kA (line-PG)
Nominal discharge current (8/20)	I _n	0.15kA (line-line) 2.5kA (line-PG)
Total nominal discharge current (8/20)	I _n	10kA
Nominal discharge current (8/20) (PoE)	I _n	0.15kA (pair-pair)
Voltage protection level at I _n	U _v	s 190V (line-line) s 600V (line-PG)
Voltage protection level at I _n (PoE)	U _v	s 600V (line-line)
Data transmission rates	V _d	1000Mbit/s
Insertion loss at 250MHz	a _d	S2dB
Capacitance	C	s 165pF (line-line) s 255pF (line-PG)
Operating temperature range		-40°C...+80°C
Mounting in		Standard 19" shield enclosure
Connection (input/output)		RJ45 shield socket
Pinning		1/2, 3/6, 4/5, 7/8
Shield earthing		Indirectly via integrated spark gap
Test standards		IEC 61643-21; EN 61643-21; GB/T 18802.21
Certification		CE (LVD, EMC); RoHS

• Product introduction

1. Summary

8POE-SP (Board) is module design for mounted on the standard 19" shield housing, can be installed at LPZ 0,-2 interface or higher, protecting installed in 19" distribution cabinet, designed according to IEC standard CAT 6 or Class E integrated wiring system, it applies to all the industrial Ethernet 10M, 100M, 1Gbit network surge protection. Applicable to IEEE 802.3at.

2. Features

- Protects high speed Ethernet network transmission systems (2.5G, Gigabit, 100M or 10M speed)
- High discharge capacity, low voltage protection level
- Quick response, high transmission speed, low signal attenuation
- 8 port interchangeable modules designed for the 1RU 19" rack POE-RM-08

3. Application

8POE-SP (Board) combined series is applied in offices and industries like 2.5G/Gigabit Ethernet, ATM or ISDN system, and VoIP or POE system (e.g. Switch, router, HUB, modem and so on).

4. Operating Environment

- Temperature: -40 C - +80 C
- Relative humidity: s 95% (25°C)

Installation instructions

1. This product is connected in series to the protected device.
2. Can be mounted on the full shield enclosure (POE-RM-08) for 19" distribution cabinet.
3. The out terminal should be connected to the protected devices.
4. SPD's earthing terminal must be connected to nearby earthing BusBar or the metal earthing enclosure of protected device.
5. After above precautions taken, please test protected circuit is operating.

Regularly inspect the operating status, especially after lightning.
Once the communication is off, electrician should check/replace the SPD.

8POE-SP (Board) installation diagram:

Full shield enclosure POE-RM-08 takes max. 3x8POE-SP boards

8POE-SP surge protective boards are designed for the standard 19" shield housing, called POE-RM-08, applied in the 19" distribution cabinet, with capacity for one, two or three protection modules.

Note: Input cable and output cable must be laid out separately, otherwise it will cause interference!



WARNING:

1. Device must be installed by a qualified electrician/low voltage technician, following all local and national standards and safety regulations.
2. It is recommended installation should be completed under power off condition.