

AXON PoE Net Protector AXON PoE Net Protector PROFESSIONAL

Surge protection of PoE terminal equipment



The **AXON PoE Net Protector** family is designed to provide surge protection of the 10/100 Mbps Ethernet networks data transfer devices and is particularly designed to protect POE-capable modems, routers and repeaters, i.e. powered over unused pairs of wires of the transmission cable. The **AXON PoE Net Protector** contains two channels - data transmission lines (lines 1-2, 3-6) and power supply lines (lines 4+ 5, 7+ 8). Both of them are protected by surge arresters, which discharge the surge energy to the earth and also protect the lines in the individual pairs of wires. In order to increase the load capacity of the power supply circuit, the line 4 is shorted out with the line 5, as well as the line 7 with the line 8.

The **AXON PoE Net Protector** family of products is available in two versions, allowing you to customize your device to suit your needs. The **AXON PoE Net Protector PROFESSIONAL** is enclosed in a metal housing and thereby ensures high resistance to various mechanical exposures and provides shielding of the entire protection system. The plastic housing version retains all the basic protection features of the metal housing version at a lower unit cost.

Common specifications:

	Data side (pairs 1-2, 3-6):
Nominal voltage U_N	5V
Maximum voltage U_C	6V
Level of protection U_P (line-line)	$\leq 40V - 1kV/\mu s, C3$
Level of protection U_P (line-earthing)	$\leq 600V - 1kV/\mu s, C3$
Nominal discharge current i_N (line-line)	20A - 10/1000 $\mu s, C3$
Nominal discharge current i_N (line-earthing)	20A - 10/1000 $\mu s, C3$
	Power side (line 4, 5 & 7, 8):
Nominal voltage U_N	50V
Maximum voltage U_C	56V
Rated current I_N	400mA
Level of protection U_P (line-line)	$\leq 95V - 1kV/\mu s, C3$
Level of protection U_P (line-earthing)	$\leq 1000V - 1.2/50\mu s, C2$
Nominal discharge current i_N (line-line)	10A - 10/1000 $\mu s, C3$
Nominal discharge current i_N (line-earthing)	2kA - 8/20 $\mu s, C2$
Standards	EN 61643-21

Specifications only for AXON PoE Net Protector

Dimensions	66x60x30mm + 0.3m earthing wire
Housing / Weight	plastic / 0.08kg
Number of channels / Type of sockets	1 / RJ45 (8P8C)

Specifications only for AXON PoE Net Protector PROFESSIONAL

Dimensions	70(95)x50x30mm + 0.3m earthing wire
Housing / Weight	metal, powder coated / 0.16kg
Number of channels / Type of sockets	1 / RJ45 (8P8C) shielded

The manufacturer reserves the right to change the technical parameters of the device, resulting from technological progress.
NOTE! Specifications define the maximum values of voltage spikes, against which the device is protected.