

OVERVOLTAGE PROTECTION for Ethernet 100BaseT network

DME100TX-4RJ, DME100TX-4RJ-R

Protection of data inputs for LAN Ethernet 100BaseT site devices in lightning protection zone LPZ 1 (inside buildings). The full protective effects are only achieved with correct earthing of the overvoltage protection.

The DME100T protection modules are connected between the equipment to be protected (workstation, server, HUB,...) and the unprotected network. Due to their small size, they can be fitted directly onto the protected equipment. The advantage of such installation is that there is no need to install a connection of earthing wire as this function is provided by the frame of the protected equipment.

DME100TX-4RJ

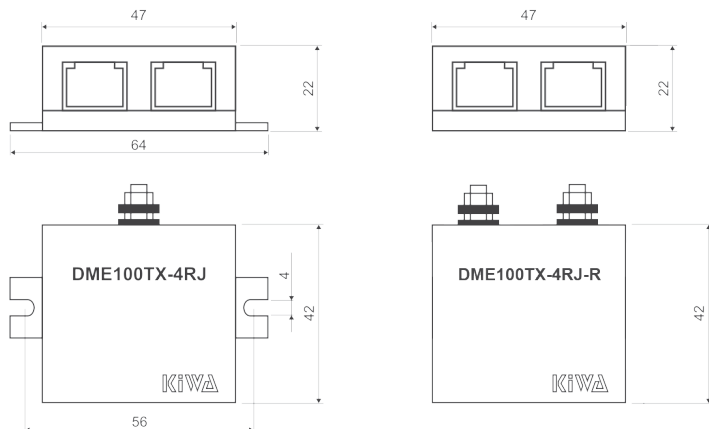
is SPD module for protection of the computer network 100BaseT. It protects 2 pairs of wires. It is equipped with two RJ45 connectors, which are interchangeable - each connector can act as input or output. The unprotected output of LAN shall be connected with a patch cable to one connector of the module, and the second connector is connected with cable to the input of the protected device.

DME100TX-4RJ-R is a surge protector designed for DIN rail mounting. The potential PE is connected via the DIN rail holder which is connected to the PE.

Fine one-stage protection. The protection effect provides the circuit combining suppressor diodes and avalanche diodes. It also provides protection against symmetrical and asymmetrical overvoltage surges (between individual wires / wires and the earth).



DIMENSIONS



TECHNICAL PARAMETERS

Nominal discharge current (8/20)		
line - line	I_n	300 A
line - earth	I_n	300 A
shielding - earth	I_n	1 kA
Max. discharge current (8/20)		
line - line	I_{max}	350 A
line - earth	I_{max}	350 A
shielding - earth	I_{max}	2 kA
Nominal voltage	U_n	5 V DC
Max. operating voltage	U_c	7 V DC
Voltage protection level (at I_{max})		
line - line, line - earth	U_p	≤ 45 V
shielding - earth	U_p	≤ 600 V
Insered impedance		-
Baud rate		100 Mbit/s
Response time	t_A	≤ 1 ns

CONNECTION

input	RJ45 connector
output	RJ45 connector
protection earth	M4 screw
protected wires	2 pairs of wires, line 1, 2, 3, 6 *

* other lines are not connected

PRODUCT SPECIFICATION

TYPE	Order number
DME100TX-4RJ	94.007
DME100TX-4RJ-R	94.042