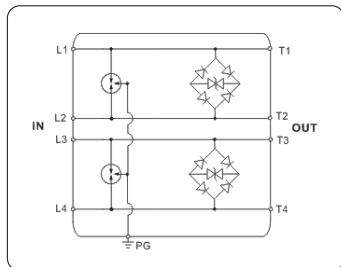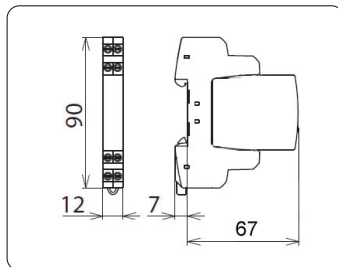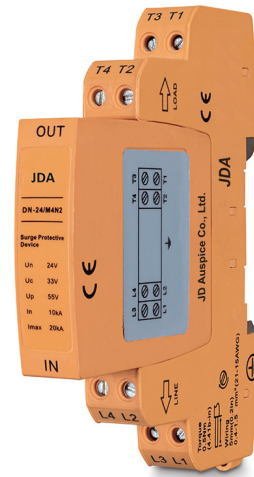# Pluggable Dataline Protector DN-48/M4GN6

Basic circuit diagram

Dimension drawing

JDA DN series dataline protectors provide protection for balanced 2-pairs or 4 floating signal lines in the measuring and controlling system, especially for resistance sensitive circuit, suitable for use in category location B, C (ANSI/IEEE C62.41) or directly at the upstream near the protected devices.

Technical Features

◆ Comply with UL 497B standard
◆ Pluggable surge protection for DIN Rail mounting
◆ Signal transmission is not interrupted when exchanging module
◆ Two-stage protection circuit, limit the transients with gas discharge tubes and transzorb diodes

◆ Rated load current up to 2A
◆ No serial resistance
◆ Earth possible on DIN Rail
◆ Suitable to use for measuring and controlling system, like thermocouples (PT100 devices). And low voltage alarm circuits such as fire or security etc,

Type		DN-48/M4GN6
In accordance with		UL497b; IEC 61643-21:2012
Nominal voltage	Un	48Vdc
Max. continuous operating voltage	Uc	54Vdc/38.1Vac
C2 Nominal discharge current (8/20μs) per line	In	L-L:300A,L-G:10kA
C2 Max. discharge Current (8/20μs) per line	Imax	L-L:500A,L-G:20kA
D1 Lightning impulse current (10/350μs) per line	Iimp	2.5kA
Voltage protection level (V)	L-L@In,C2 (8/20μs)Up	$\leq$100
	L-PG@ In,C2 (8/20μs)Up	$\leq$500
	L-L@C3 (1KV/μs)Up	$\leq$75
	L-PG@C3 (1KV/μs)Up	$\leq$600
Nominal current (A)	I_L	2 A
Cut-off frequency (Hz)	f_G	100 MHz
Series impedance per line (Ohm)		0 Ohm
Protection line		2 pairs or 4 wires
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3
Type of connection IN/OUT		screw/screw
Dimensions (mm)		90 X 12 X 74
Operating temperature range		- 40ºC ~ + 85ºC
Housing Material		Thermoplastic, extinguishing degree,UL49 V-0

note: subject to change without any notice, JDA pay no responsibility