

IOP32D Surge Diverter

Digital I/O and analog power surge protection



Description

The IOP32D Surge Diverter protects both digital and analog inputs and outputs from the impact of surge in-rush currents. Featuring removable terminals for easy commissioning, the surge diverter is ATEX-certified for use in potentially explosive atmospheres.

Note: Effective surge protection relies on good earth grounding. This product assumes both a metallic enclosure and good ground connection to the enclosure. If in doubt, add another earth ground under the locknut.

WARNING

DO NOT STAND NEAR OR TOUCH OPERATING EQUIPMENT DURING AN ELECTRICAL STORM, AS THE IOP32D WILL NOT PROTECT PERSONNEL.

Specifications

SPECIFICATION	DESCRIPTION
Parameters	
Wires/loops protected	4 wires/2 loops
Nominal voltage	32V
Rated voltage (MCOV)	36V
Nominal working current	675 mA
Nom./max discharge current	3 kA/20 kA (8/20 μS)
Lightning impulse current	2.5 kA (10/350 μS)
Residual V @ nom. discharge	45V
Voltage protection @ 1 kV/us	<38V
Response time	<1 ns
Bandwidth	<-0.3 dB: <1 MHz; -3 dB: 6.5 MHz
Series resistance	2 ohms (4 ohms per loop)
Leakage current	<1 μA @ working voltage
General	
Size	0.5" x 4.1" x 3.3" (13 mm x 105 mm x 85 mm)
Housing	IP20
Mounting	T-section DIN rail 1.4" x 0.6" (35 mm x 15 mm)
Terminal blocks	12 AWG, 0.09 in ² (2.5 mm ²)
Safety	EN 60950
Hazardous area	ATEX EEx ia IIC T4
Temperature	-40 to +158°F (-40 to +70°C)
Humidity	5-95% noncondensing
Weight	5 oz (140g)

Note: Specifications are subject to change.

Ordering

PRODUCT CODE	DESCRIPTION
IOP32D	Signal surge diverter

Product Compatibility

See your product data sheet for information about compatibility of IOP32D Surge Diverter with your application.

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