

PD3041

Hardened Surge Protection Device – RJ11 & Two Wire Terminal Block



Overview

EtherWAN's PD3041 Hardened Surge Protection Device shields DSL equipment from dangerous power surges, ground loops, and electrical discharges caused by faulty wiring or lightning. With full wire-to-wire and wire-to-earth surge protection, the PD3041 is ideal for use in areas that have unstable supplies of electricity, and on sites that have excessive amounts of electromagnetic interference. Applications include outdoor IP cameras and access points, as well as rooftop networking cabinets.

EtherWAN — "When Connectivity is Crucial."

Spotlight

+ Robust Protection Against Voltage Surges + Wide Operating Temperature Range

- Provides pair-to-pair protection through RJ11 connector & terminal block
- Operates in temperatures from -40 to 75°C, with throughput under 100Mbps

+ Flexible Installation

- Supports DIN-rail or desktop installation

Specifications

+ Mechanical

Casing

- Aluminum Case
- IP20

Dimensions

- 30 x 62.5 x 100mm (W x H x D)
- (1.18" x 2.5" x 3.8")

Weight

- 184g \pm 5%

Installation

- RJ11 Connector / Terminal Block

+ Environment

Operating Temperature

- -40 to 75°C (-40 to 167°F)

Storage Temperature

- -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

- 5% to 95% (non-condensation)

+ Regulatory Approvals

ISO

- Manufactured in an ISO 9001 facility

Safety

- UL 497B

EMI

- CE
- FCC Part 15 Class B
- VCCI

Industrial Compliance

- IEC 61643-21

+ Electrical

Maximum continuous operating voltage UC

- \leq 185VDC

Maximum continuous voltage UC (Wire-Wire)

- \leq 185VDC

Maximum continuous voltage UC (Wire-Ground)

- \leq 185VDC

Nominal current I_N

- \leq 380mA (25°C)

Operating effective current I_C at UC

- \leq 6 μ A

RResidual current IPE

- \leq 4 μ A

Nominal discharge surge current I_n (8/20) μ s (Core-Core)

- \leq 5kA

Nominal discharge surge current I_n (8/20) μ s (Core-Earth)

- \leq 5kA

Total surge current (8/20) μ s

- 10kA

Nominal pulse current I_{an} (10/1000) μ s (Core-Core)

- \leq 100A

Nominal pulse current I_{an} (10/1000) μ s (Core-Earth)

- \leq 100A

Nominal pulse current I_{an} (10/700) μ s (Core-Core)

- \leq 150A

Nominal pulse current I_{an} (10/700) μ s (Core-Earth)

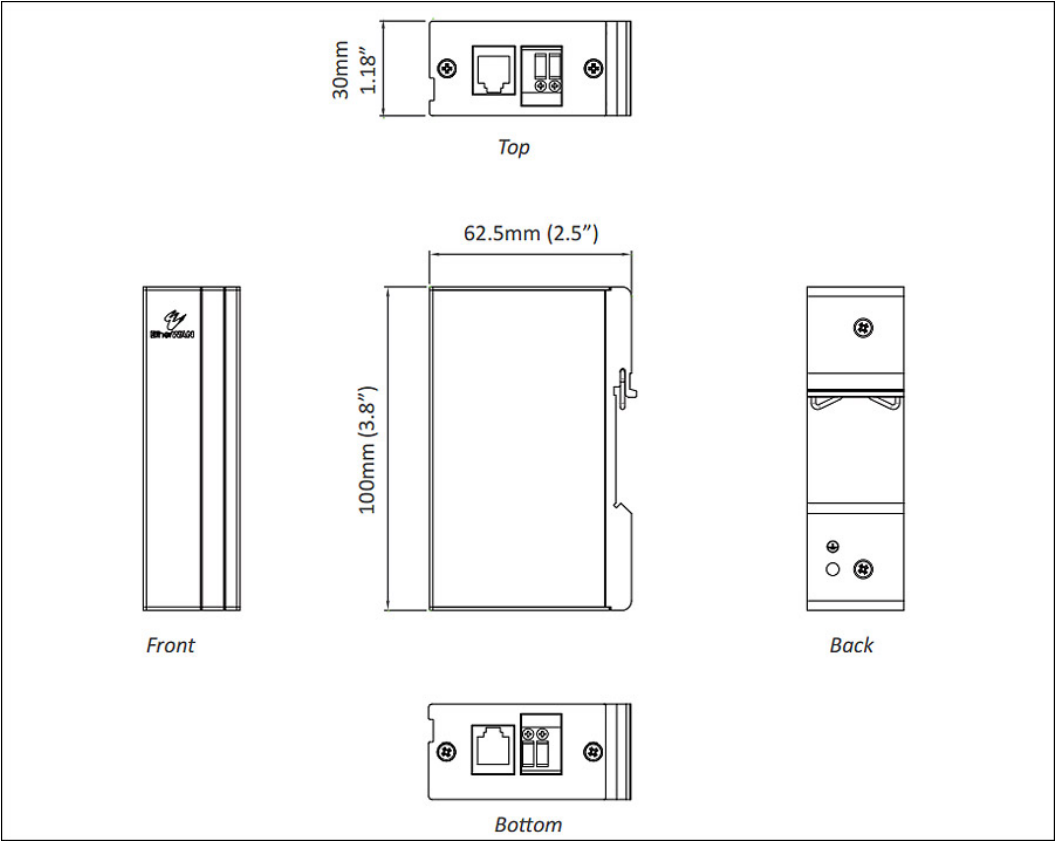
- \leq 150A

Output voltage limitation at 1kV/ μ s (Core-Core) spike

- \leq 250V

- **Output voltage limitation at 1kV/ μ s (Core-Earth) spike**
 - $\leq 250V$
- **Residual voltage at In, (Conductor-Conductor)**
 - $\leq 120V$
- **Residual voltage at In, (Conductor-Ground)**
 - $\leq 120V$
- **Voltage protection level UP (Core-Core)**
 - $\leq 300V$ (B2-100A)
 - $\leq 300V$ (C1-500A)
 - $\leq 300V$ (C2-5kA)
- **Voltage protection level UP (Core-Earth)**
 - $\leq 300V$ (B2-100A)
 - $\leq 300V$ (C1-500A)
 - $\leq 300V$ (C2-5kA)
- **Response time t_A (Core-Core)**
 - $\leq 100ns$
- **Response time t_A (Core-Earth)**
 - $\leq 100ns$
- **Input attenuation aE, sym.**
 - Typ. 0.5dB ($\leq 5MHz$)
 - Typ. 0.3dB ($\leq 8MHz/150\Omega$)
 - Typ. 0.3dB ($\leq 2.5MHz/600\Omega$)
- **Near-end crosstalk attenuation**
 - $\leq 35dB$ (At 250MHz/100 Ω)
- **Cut-off frequency f_g (3dB), sym. in 100 Ohm system**
 - Typ. 50MHz
- **Resistance in series**
 - $3.3\Omega \pm 10\%$
- **Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)**
 - B2 (4kV/100A)
 - C1 (1kV/500A)
 - C2 (10kV/5kA) (Terminal Block)
 - C2 (6kV/3kA) (RJ11)

Dimensions



Ordering Info

+ Model

PD3041	Hardened Surge Protection Device – RJ11 & Two Wire Terminal Block Type
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