

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

+ Electrical

Maximum continuous operating voltage UC
 $\leq 185\text{VDC}$

Maximum continuous voltage UC (Wire-Wire)
 $\leq 185\text{VDC}$

Maximum continuous voltage UC (Wire-Ground)
 $\leq 185\text{VDC}$

Nominal current IN
 $\leq 380\text{mA}$ (25°C)

Operating effective current IC at UC
 $\leq 6\mu\text{A}$

RResidual current IPE
 $\leq 4\mu\text{A}$

Nominal discharge surge current In (8/20) μs
(Core-Core)
 $\leq 5\text{kA}$

Nominal discharge surge current In (8/20) μs
(Core-Earth)
 $\leq 5\text{kA}$

Total surge current (8/20) μs
 10kA

Nominal pulse current Ian (10/1000) μs (Core-Core)
 $\leq 100\text{A}$

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 I_n , (Conductor-Conductor)

$\leq 120V$

Residual voltage at I_n , (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)

≤100ns

Input attenuation aE, sym.

Typ. 0.5dB (≤5MHz)

Typ. 0.3dB (≤8MHz/150Ω)

Typ. 0.3dB (≤2.5MHz/600Ω)

Near-end crosstalk attenuation

≤35dB (At 250MHz/100Ω)

Cut-off frequency fg (3dB), sym. in 100 Ohm system

Typ. 50MHz

Resistance in series

3.3Ω ±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)

Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)

B2 (4kV/100A)

C1 (1kV/500A)

C2 (10kV/5kA) (Terminal Block)

C2 (6kV/3kA) (RJ11)

D1 (1kA)

+ 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 ±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

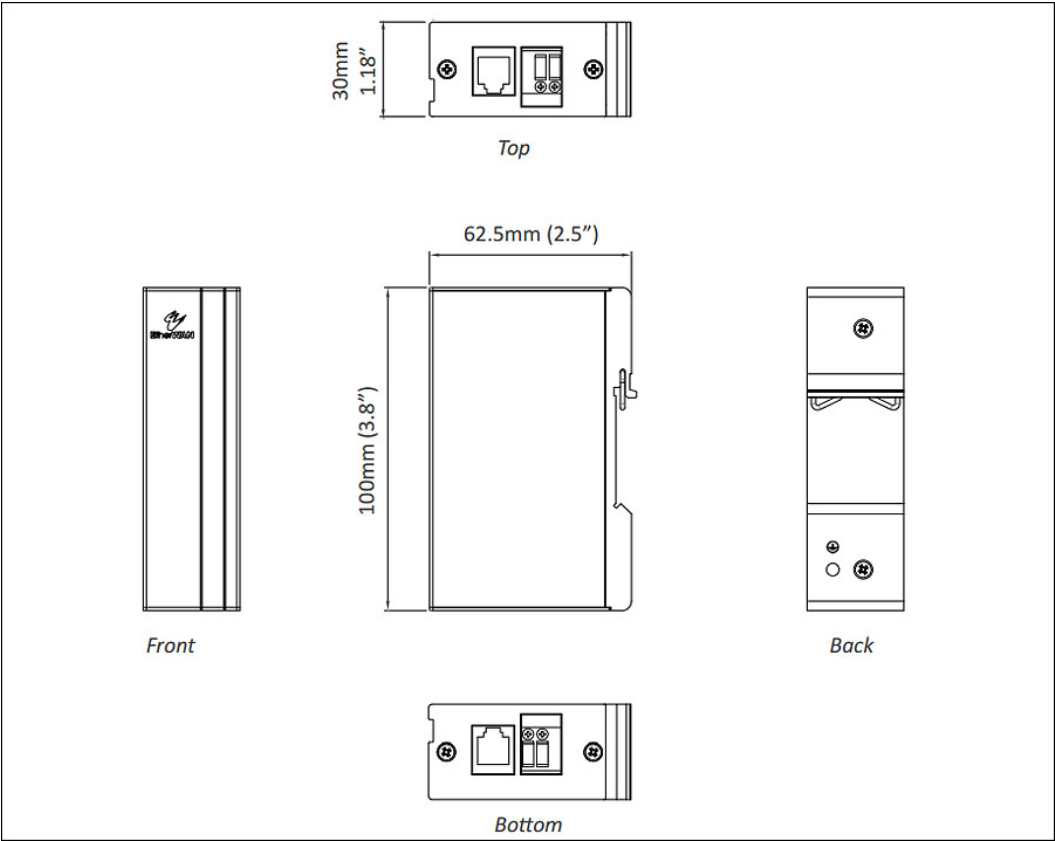
CE

FCC Part 15 Class B

VCCI

Industrial Compliance

Dimensions



Ordering Info

Model

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