

PD1041

雙絞線/電話線 湧流保護器



產品介紹

益網科技的 PD1041 強固級雙絞線/電話線湧流保護器相容於 10/100/1000BASE-T 和 PoE，可透過 RJ45 連接器提供線對保護，可以讓您的乙太網路系統設備免受危險電湧的影響。PD1041 專為惡劣嚴苛條件下的網路環境而設計，可以安裝在您的網路設備環境，進一步以保護您寶貴的網路設備。

EtherWAN — "When Connectivity is Crucial."

產品亮點

+ 電壓突波保護解決方案

透過 RJ45 連接器提供線對保護

+ 寬工作範圍

為極端氣候環境提供 -40 至 75°C 的工作溫度範圍

+ 有彈性的安裝方式

支援 DIN 導軌式安裝或桌面安裝

+ 相容於 10/100BASE-T、Gigabit 和 PoE 產品

提供資料和 PoE 電源通過

產品規格

+ Electrical

Maximum continuous operating voltage UC
 $\leq 3.3\text{VDC}$

Maximum continuous voltage UC (Wire-Wire)
 $\leq 3.3\text{VDC} (\pm 60\text{VDC/PoE+})$

Maximum continuous voltage UC (Wire-Ground)
 $\leq 180\text{VDC}$

Nominal current I_N
 $\leq 1.5\text{A} (25^\circ\text{C})$

Operating effective current I_C at UC
 $\leq 1\mu\text{A}$

Residual current IPE
 $\leq 8\mu\text{A}$

Nominal discharge surge current $I_n (8/20) \mu\text{s}$
(Core-Core)
100A

Nominal discharge surge current $I_n (8/20) \mu\text{s}$
(Core-Earth)
2kA (per signal pair)

Total surge current (8/20) μs
10kA

Nominal pulse current $I_{an} (10/700) \mu\text{s}$ (Core-Core)
 $\leq 40\text{A}$

Nominal pulse current $I_{an} (10/700) \mu\text{s}$ (Core-Earth)
160A

Output voltage limitation at $1\text{kV}/\mu\text{s}$ (Core-Core)
spike
 $\leq 85\text{V}$ (PoE)

Output voltage limitation at $1\text{kV}/\mu\text{s}$ (Core-Earth)
spike
 $\leq 700\text{V}$

Output voltage limitation at $1\text{kV}/\mu\text{s}$ (Core-Core)
static
 $\leq 9\text{V}$

Output voltage limitation at $1\text{kV}/\mu\text{s}$ (Core-Earth)
static
 $\leq 700\text{V}$

Output voltage limitation at $100\text{V}/\text{s}$ (Core-Core)
 $\leq 9\text{V}$

Output voltage limitation at $100\text{V}/\text{s}$ (Core-Earth)
 $\leq 300\text{V}$

Output voltage limitation at 100V/ μ s (Core-Core)
 $\leq 9V$

Output voltage limitation at 100V/ μ s (Core-Earth)
 $\leq 600V$

Residual voltage at IN, (Conductor-Conductor)
 $\leq 15V$
 $\leq 100V$ (PoE)

Voltage protection level Up (Core-Core)
 $\leq 9V$ (B2-1kV/25A)
 $\leq 100V$ (B2-1kV/25A-PoE)
 $\leq 15V$ (500V/100A)

Voltage protection level Up (Core-Earth)
 $\leq 600V$
 $\leq 700V$ (C2-4kV/2kA)

Response time t_A (Core-Core)
 $\leq 1ns$

Response time t_A (Core-Earth)
 $\leq 100ns$

Input attenuation aE, sym.
1dB ($\leq 250MHz$)

Near-end crosstalk attenuation
 $\leq 35dB$ (At 250MHz/100 Ω)

Cut-off frequency f_g (3dB), sym. in 100 Ohm system
 $> 500MHz$

Capacity (Core-Core)
typ. 5pF ($f=1MHz/VR=0V$)

Capacity (Core-Earth)
typ. 2pF ($f=1MHz/VR=0V$)

Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)
B2 (1kV/25A)

Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)
B2 (4kV/100A)
C2 (4kV/2kA)
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 $\pm 5\%$

Installation
DIN-Rail

Connection
RJ45 Connector

+ 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

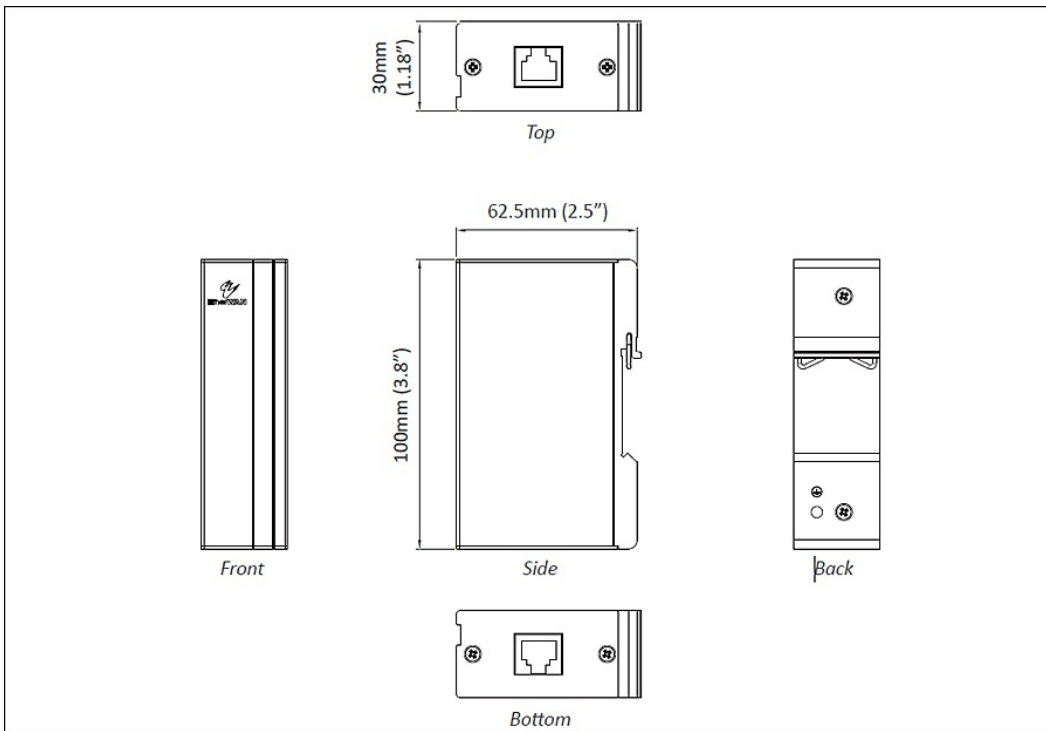
ISO
Manufactured in an ISO 9001 facility

Safety
UL 497B

EMI
CE
FCC Part 15 Class B
VCCI

Industrial Compliance
IEC 61643-21

產品尺寸圖



訂購型號

Model

PD1041	Hardened Surge Protection Device – RJ45
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* Note: Cat.6 cable is recommended.

