Surge Protection for Information System

ProSurge®
Maximum Safety in Surge Protection

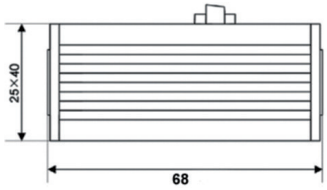
Prosurge D-05/RJ45-CAT6/H Protector is designed for Gigabit Ethernet terminals against surges. It is suitable for use in category location B, C (ANSI/IEEE C62.41) or directly at the upstream near the protected devices.

Technical Features

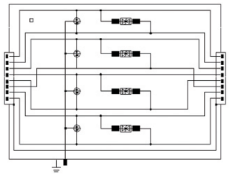
- Data network protector In according with standard UL 497b, EN 50173 Category 6, IEC 61643-21:2012
- Ethernet CAT6 & CAT5 system protection
- Applied in offices and industries like Gigabit Ethernet, ATM or ISDN system, and VoIP system (e.g. switch, router, hub, modem and so on)
- High discharge capacity, total nominal discharge current 10kA 8/20μs and Lightning current up to 1.0kA 10/350μs
- RJ45 connector for CAT6 & CAT 5 network technology, 100BaseT, 1000BaseT, 8 wires protection.
- DIN-rail type is available

Part No.		D-05/RJ45-CAT6/H
Nominal Voltage (Vdc)	Un	5V
Max. Continuous Operating Voltage (Vdc)	Uc	6V
C2 Nominal Discharge Current (8/20μs)	In	2.5kA
C2 Total nominal Discharge Current (8/20μs)		10kA
Voltage Protection Level	L-SG@C2 (8/20μs) Up	≤55V
	L-SG@C3 (1KV/μs) Up	≤25V
Lightning Impulse Current (10/350μs)	Iimp	1.0kA
Nominal Current	IL	200mA
Transmission Speed		1000Mbps
Insertion Loss at 250MHz		≤ 3.0dB
Transmission Standards		100BaseT / 1000BaseT / 1000BaseTX (CAT6)

- Dimension drawing



- Basic circuit diagram

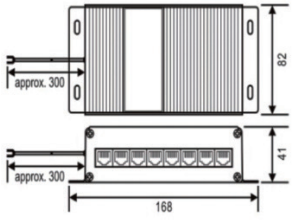


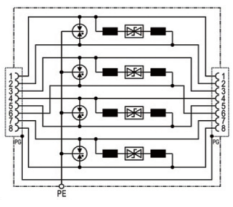
Multiport 1Gb Protector

24-ports protector DSB05/RJ45-1000M-24P/1000M 19"bay design

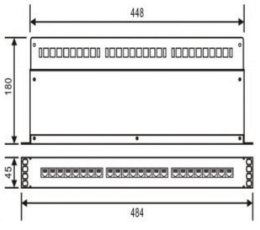
Part No.		DSB05/RJ45-1000M-24P
Number of Connection Ports		24
Nominal Voltage (Vdc)	Un	5V
Max. Continuous Operating Voltage (Vdc)	Uc	6V
C2 Nominal Discharge Current (8/20μs)	In	2.5kA
C2 Total nominal Discharge Current (8/20μs)		10kA
Voltage Protection Level	@C2 (8/20μs) Up	≤30V (L-L); ≤500V (L-G)
	@C3 (1KV/μs) Up	≤24V (L-L); ≤600V (L-G)
Lightning Impulse Current (10/350μs)	Iimp	1kA
Nominal Current	IL	150mA
Insertion Loss		≤0.1dB
Transmission Speed		1000Mbps
Technology		Two-stage protection circuit, GDT/SAD technology
Transmission Standards		1000BaseT/Tx

- Dimension drawing





- Basic circuit diagram



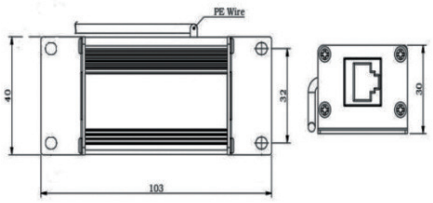
Prosurge D-48 CAT6-PoE Protector is designed for protecting Gigabit Ethernet & Power-over Ethernet (PoE) terminals such as Internet camera, IP Telephone sets, and wireless access point, and are suitable for use in category location B, C (ANSI/IEEE C62.41) or directly at the upstream near the protected devices.

Technical Features

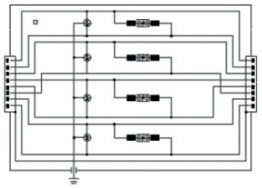
- Data network protector In according with standard IEEE802.3 at/af, UL 497b, EN 50173 Category 6, IEC 61643-21:2012
- PoE compatible, Ethernet CAT6 & CAT5 system protection
- High discharge capacity, total nominal discharge current 10kA 8/20μs and Lightning current up to 1.0kA 10/350μs
- In aluminum housing
- RJ45 connector for CAT6 & CAT5 network technology, 100BaseT, 1000BaseT, 8 wires protection

Part No.		D-48/RJ45-CAT6/H(POE)-B
Nominal Voltage (Vdc)	Un	48V
Max. Continuous Operating Voltage (Vdc)	Uc	68V
C2 Nominal Discharge Current (8/20μs)	In	2.5kA
C2 Total nominal Discharge Current (8/20μs)		10kA
Voltage Protection Level	@C2 (8/20μs) Up	≤190V (L-L); ≤500V (L-G)
	@C3 (1KV/μs) Up	≤145V (L-L); ≤600V (L-G)
Lightning Impulse Current (10/350μs)	Iimp	1kA
Nominal Current	IL	800mA
Insertion Loss		≤0.1dB
Transmission Speed		1000Mbps
Technology		Two-stage protection circuit, GDT/SAD technology
Transmission Standards		10BaseT / 100BaseT / 1000BaseT / 1000BaseTX (CAT6) / PoE
Pinning		1/2, 3/6, 4/5, 7/8 for data; 1&2 / 3&6, 4&5 / 7&8 for PoE

- Dimension drawing



- Basic circuit diagram

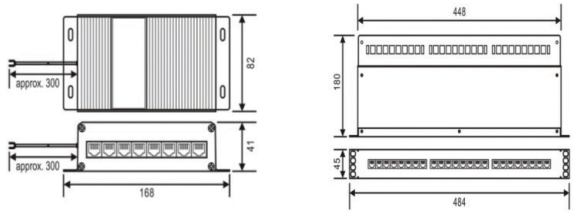


Multiport 1Gb-PoE Protector

24-ports protector DSB48/RJ45-1000M-24P 19" bay design

Part No.		DSB48/RJ45-1000M-24P
Number of Connection Ports		24
Nominal Voltage (Vdc)	Un	48V
Max. Continuous Operating Voltage (Vdc)	Uc	60V
C2 Nominal Discharge Current (8/20μs)	In	2.5kA
C2 Total nominal Discharge Current (8/20μs)		10kA
Voltage Protection Level	@C2 (8/20μs) Up	≤190V (L-L); ≤500V (L-G)
	@C3 (1KV/μs) Up	≤145V (L-L); ≤600V (L-G)
Lightning Impulse Current (10/350μs)	Iimp	1kA
Nominal Current	IL	750mA
Series Impedance per Line	R	0.5 Ω (PTC)
Insertion Loss		≤0.1dB
Transmission Speed		1000Mbps

- Dimension drawing



- Basic circuit diagram