



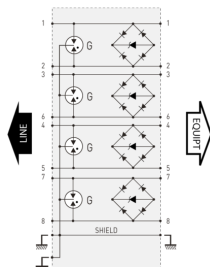
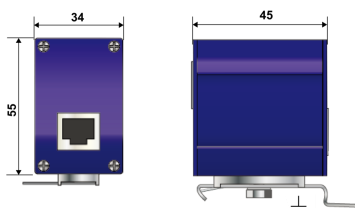
CITEL



Indoor Cat. 6A 10Gb/s rated POE Surge Protective Device & Mounting Hardware Kit

MJ8-POE-A

- ▶ POE++ Mode A compatible Surge Protector
- ▶ Cat. 5e compatible
- ▶ Shielded RJ45 connectors
- ▶ 16 kA maximum surge discharge capability
- ▶ Max Transmission up to 1Gbps
- ▶ Max Bandwidth up to 100 MHz
- ▶ UL497B



P: 3-electrode GDT
DBC: Low capacitance diode

Electrical Characteristics

Network	1Gb/s on Cat5E S/FTP cabling
Protection modes (network)	CM / DM
Protection modes (POE)	CM (Common Mode)
Transmission standard	IEEE 802.3bt
Lightning Protection Zones (LPZ)	0 - 3
Max. DC operating voltage	Uc 60 Vdc
Max. operating voltage (POE)	Uc 60 Vdc
Max. frequency, in the channel	f max. 100 MHz
Max. data rate	1 Gbps
Max. load current @25°C	IL 2 A
Max. POE power (4PPOE)	100 W
Nominal discharge current C1 (1.2/50us / 8/20us), 300 applications X-X (Line/Line)	In 100V / 50A
Nominal discharge current C2 (1.2/50us / 8/20us), 10 applications X-C (Line/Earth)	In 4 kV / 2 kA
Max. discharge current max. withstand @ 8/20 us, X-C (Line/Earth)	Imax 2 kA
Protection Level C3 (10/1000us), 300 applications@10 A, Y-Y (Line/Line)	Up 80 V
Protection Level C3 (10/1000us), 300 applications@10 A, X-C (Line/Earth)	Up 700 V
Protection Level C3 (10/1000us), 300 applications @ 10A, (Pair-Pair, POE)	Up 700 V
Impulse current D1 (10/350us), 2 applications, 8X-C (1&2+3&6+4&5+7&8 - Earth)	Iimp Total 500 A
Line resistance (± 10%)	~ 0 ohms
Capacitance @1MHz, X-C (Line/Earth)	C < 5 pF
NOMINAL DC LINE VOLTAGE	Vdc 48
MAX. DC LINE VOLTAGE	Vdc 60
WIRES	8W+Shield+Ground
LINE CURRENT MAX	(A) 1.6
POWER RATING	(W) 100
AMBIENT MIN	(C) -40
AMBIENT MAX	(C) +85
PROTECTION LEVEL	(V) 70
IMAX 8/20us	(kA) 16
MAX. DATA RATE	Gbps 1
MAX. FREQUENCY	Mhz 100

Mechanical Characteristics

Technology	GDT+TVS diode
Connection to Network	RJ45 shielded connectors Female input/output
Format	Metallic box with connectors input/output
Accessory(s) provided	Screw, washer, cable shoe, earthing plate, DIN rail adapter
Ingress Protection rating	IP20 (NEMA 2)
Failsafe mode	Transmission cut-off - Fault mode 2 (short-circuit)
Pinout	(1-2)(3-6)(4-5)(7-8)
TECHNOLOGY	SAD-GDT
NETWORK CONFIGURATION	Single POE Line
CONNECTOR TYPE	Shielded RJ45
PIN OUT	[1-2][3-6][4-5][7-8]
NEMA RATING (IP RATING)	NEMA 2 (IP20)
DIMENSIONS	See diagram

Standards

UL File Number	E184939
Certification	UL 497B
UL STANDARD	UL497B
UL CATEGORY	QVQG



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MJ8-POE-A

UL FILE NUMBER	E184939
STANDARDS	NOM-003-SCFI-2014, NOM-001-SCFI-1993
ENVIRONMENTAL STANDARDS	ROHS
Part number	
581519	

