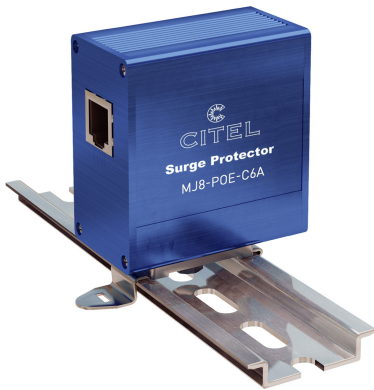




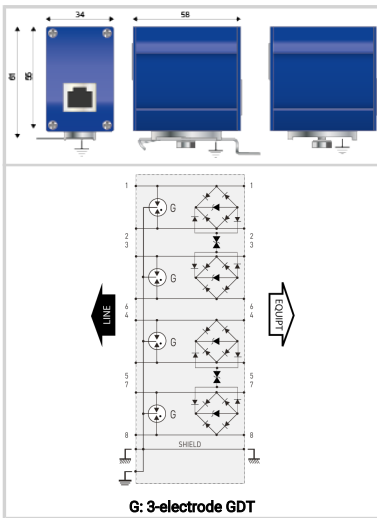
# CITEL

## Surge protector for POE ++ and Category 6A cabling network

### MJ8-POE-C6A



- ▶ POE++ compatible (IEEE 802.3bt) -10Gb (5-100m) with Cat6A S/FTP cabling
- ▶ Shielded RJ45 connectors
- ▶ Indoor applications, IP20 (NEMA 2)
- ▶ Metal enclosure
- ▶ IEC/EN 61643-21 compliant
- ▶ SPD categories D1, C3, C2, C1
- ▶ 16kA total surge discharge capability



Electrical Characteristics		
Network		10Gb/s on Cat6A S/FTP cabling
Protection modes (network)		CM / DM
Protection modes (POE)		CM / DM (common mode / differential mode)
Transmission standard		IEEE 802.3bt
Lightning Protection Zones (LPZ)		0 - 3
Max. operating voltage (DATA)	Uc	8 Vdc
Max. operating voltage (POE)	Uc	60 Vdc
Max. frequency	f max.	500 MHz
Max. data rate		10 Gbps
Max. load current @25°C	IL	2 A
Max. POE power (4PPOE)		100 W
Nominal discharge current C1 (1.2/50µs / 8/20µs), 300 applications X-X (Line/Line)	In	1kV / 500A
Nominal discharge current C2 (1.2/50µs / 8/20µs), 10 applications X-C (Line/Earth)	In	4 kV / 2 kA
Max. discharge current max. withstand @ 8/20 µs, X-C (Line/Earth)	Imax	2 kA
Max. discharge current max. withstand @ 8/20 µs, 8X-C (1&amp;2&+3&+4&+5&+6&+7&+8 to Earth)	Imax Total	16 kA
Protection Level C3 (10/1000µs), 300 applications@10 A, Y-Y (Line/Line)	Up	70 V
Protection Level C3 (10/1000µs), 300 applications@10 A, Y-C (Line/Earth)	Up	500 V
Protection Level C3 (10/1000µs), 300 applications @ 10A, (Pair-Pair, POE)	Up	80 V
Impulse current D1 (10/350µs), 2 applications, X-C (Line/Earth)	Iimp	400 A
Line resistance (± 10%)		~ 0 ohms
Capacitance @1MHz, X-C (Line/Earth)	C	< 5 pF

Mechanical Characteristics		
Technology		GDT+TVS diode
SPD configuration		8 wires+shielded
Connection to Network		RJ45 shielded connectors Female input/output
Format		Metallic box with connectors input/output
Mounting		DIN rail / Wall / Plate
Accessory(s) provided		Screw, washer, cable shoe, earthing plate, DIN rail adapter
Housing material		Metallic
Operating temperature	Tu	-40/+85°C
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)
Dimensions		See diagram
Weight		0.12 kg / 0.26 lbs

Standards		
Standards compliance		IEC 61643-21/ EN 61643-21 / UL497B IEEE 802-3af/3at/3bt/ ANSI/TIA-568-C.1
UL Category		QVGG - Isolated Loop Circuit Protectors
Certification		UL listed
Environmental standards		EU RoHS

**Part number**  
**581541**

