



## Hardwired AC Surge Protection CM80



The CM80 Series is a high performance surge protector designed for critical panel locations. The SPD incorporates high-energy MOVs with EMI/RFI noise filtering to provide protection against transients originating from induced lightning strikes and utility switching.

Real-time diagnostics include LED fault indicators for each phase as well as the presence of abnormal voltages between the neutral to ground mode, where applicable. Form C dry contacts for remote indication and an audible alarm ensure the CM80 Series is always at full capacity.

Housed in a rugged NEMA 4X enclosure these devices are suitable for harsh indoor or outdoor applications. The CM80 Series is available for all voltages and configurations up to 480Vac.

### AC Panel Protection

- 80kA transient amps protection (8/20 $\mu$ s)
- All modes of protection
- Full On-Board Diagnostics— LED indicators, remote, surge counter & audible alarms.
- 200kAIC Fault Current Rated
- Integral Fused Disconnect
- EMI/RFI Noise Filtering
- NEMA 4X enclosure
- 10-Year warranty

### Characteristics

Surge Handling ( $I_{max}$ )	80kA/phase
Protection Modes	L-N, L-G, N-G, L-L
EMI/RFI Noise Rejection	Yes
LED Indicators	Fuse, Power Loss, Under Voltage
Audible Alarm	Yes
Remote Signalling	Form C dry contacts
Connecting Wire Size	#2-10 AWG
Response Time	<5 nanoseconds
Dimensions	15" x 11" x 4.5"
Enclosure	NEMA 4X, PC
Weight	12lbs

### Standards & Guidelines

UL 1449 2nd Edition	USA
IEC 61643-11	International
ANSI/IEEE C62.41	USA
NFC 61740-95	France
VDE0675-6	Germany
CSA C22.2	Canada
CE Marked	European

Model	Configuration	UL1449 500A				Joules (10/100us)	MCOV
		L-N	L-G	N-G	L-L		
CM80-120T	120/240Vac, 1ph, 3W+G, split phase	500	800	500	800	3,960j	150V
CM80-120Y	120/208Vac, 3ph, 4W+G, wye	500	800	500	800	4,680j	150V
CM80-220Y	220/380Vac, 3ph, 4W+G, wye	1000	1000	1000	1800	8,320j	320V
CM80-240Y	240/415Vac, 3ph, 4W+G, wye	1000	1000	1000	1800	8,320j	320V
CM80-240DCT	120/120/240Vac, 3ph, 4W+G, hi-leg	500	800	500	1800	5,800j	150/320V
CM80-240D	240Vac, 3ph, 3W+G, delta	-	1000	-	1800	7,680j	320V
CM80-277Y	277/480Vac, 3ph, 4W+G, wye	1000	1000	1000	1800	8,320j	320V
M160-480D	480Vac, 3ph, 3W+G, delta	-	1500	-	3000	11,410j	550V