



## Hardwired AC Surge Protection

### M160



The economical M160 Series AC surge protector is deployed in applications where brute force protection is required. The low profile device provides protection for all critical modes and is housed in a NEMA 4 enclosure.

The M160 Series can be deployed as a stand alone, brute force SPD in a remote service entrance location or be incorporated into a coordinated protection scheme. Real-time diagnostics provide immediate notification in the event of a reduction in protection capacity. Meeting stringent UL, IEC and CE approval standards, the M160 is perfect as a cost effective universal solution for your worldwide applications.

#### AC Panel Protection

- 160kA transient amps protection (8/20µs)
- All modes of protection
- Full On-Board Diagnostics— LED indicators with options for remote & audible alarms.
- 200kAIC Fault Current Rated
- EMI/RFI Noise Filtering
- NEMA 4 enclosure
- 10-Year warranty

#### Characteristics

Surge Handling (I <sub>max</sub> )	160kA/phase
Protection Modes	L-N, L-G, N-G, L-L
EMI/RFI Noise Rejection	-40dB
LED Indicators	Yes
Audible Alarm	Optional
Remote Signalling	Optional
Connecting Wire Size	#10 AWG, 24" Leads
Response Time	<5 nanoseconds
Dimensions	8" x 6" x 3.5"
Enclosure	NEMA 4, Metal
Weight	9lbs

#### 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

#### Applications

- Service entrance at remote sites
- Heavyequipment feeder panels (Elevators, UPS, etc.)
- Variable Speed Drives (VSD)
- CNC Machines

Model	Configuration
M160-120T	120/240Vac, 1ph, 3W+G, split phase
M160-120Y	120/208Vac, 3ph, 4W+G, wye
M160-220Y	220/380Vac, 3ph, 4W+G, wye
M160-240Y	240/415Vac, 3ph, 4W+G, wye
M160-240DCT	120/120/240Vac, 3ph, 4W+G, hi-leg
M160-240D	240Vac, 3ph, 3W+G, delta
M160-277Y	277/480Vac, 3ph, 4W+G, wye
M160-347Y	347/600Vac, 3ph, 4W+G, wye
M160-480D	480Vac, 3ph, 3W+G, delta

UL1449 500A				Joules	
L-N	L-G	N-G	L-L	(10/100us)	MCOV
400	400	500	800	3,910j	150V
400	400	500	800	4,600j	150V
1000	1000	1000	1800	8,220j	320V
1000	1000	1000	1800	8,220j	320V
400	400	1000	1800	5,690j	150/320V
-	1000	-	1800	7,570j	320V
1000	1000	1000	1800	8,220j	320V
1500	1500	1500	3000	12,340j	550V
-	1500	-	3000	11,410j	550V