



## AC Power Panel Surge Protector

### M Series



M200-120Y



The M 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 M Series is always at full capacity.

Housed in a rugged NEMA 4/12 enclosure these devices are suitable for harsh indoor or outdoor applications. The M Series is available for all voltages and configurations up to 480Vac.

#### AC Panel Protection

- 80-200kA transient amps protection (8/20µs)
- All mode of protection
- 200kAIC Fault Current Rated
- Multi-redundant protection circuit per phase
- Full On-Board Diagnostics— LED indicators, remote & audible alarms
- EMI/RFI Noise Filtering
- NEMA 4/12 enclosure
- 10-Year warranty

#### Characteristics

Surge Handling	
M200	200kA/phase
M160	160kA/phase
M100	100kA/phase
M80	80kA/phase
Nominal Discharge Current (In)	3kA & 5kA
Protection Modes	L-N, L-G, N-G, L-L
LED Indicators	Yes
Audible Alarm	Yes
Remote Signaling	Form C dry contacts
Connecting Wire Size	#10 AWG
Response Time	<5 nanoseconds
Dimensions	8" x 6" x 4"
Enclosure	NEMA 4/12 enclosure
Weight	8 lbs

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

xxx = 200, 160, 100, 80

\*\*/L (optional) = Diagnostic board with LED only

UL1449 3kA 8/20 µs (VPR)				Joules <sup>1</sup>	
L-N	L-G	N-G	L-L	(10/100us)	MCOV
800	900	800	1800	3,240	150V
800	900	800	1800	4,680	150V
1200	1200	1200	2000	8,320	320V
1500	1200	1200	2000	8,320	320V
800	900	800	1800	6,080	150/320V
-	1200	-	2000	7,680	320V
1500	1200	1200	2000	8,320	320V
1800	1800	1800	3000	12,480	550V
-	1800	-	3000	11,520	550V

<sup>1</sup>Joules rating for M200

Contact factory for individual ratings for M160, M100 and M80