

PowerSure™ CM Series

Compact Surge Protection Solution



Features & Benefits

- **Can be installed** in any location within the AC power system.
- **Rated for UL Type 1** locations and housed in a weather resistant enclosure.
- **Available voltages** from 120V to 480V, single and three phase.
- **Optional** DIN rail mounting bracket available.
- **Protection status** includes LEDs and summary alarm contacts for remote indication.
- **5-Year Warranty.**

Electric power line disturbances such as high voltage transients can disrupt or damage sensitive electronic equipment — causing lost productivity and revenue. Emerson Network Power Surge Protection understands this problem and offers the PowerSure™ CM Series surge protective devices — the reliable way to keep these power problems from getting into your facility in the first place.

PowerSure™ CM Series Technical Specifications

Part Number	CM050120NBK	CM050120SBK CM050240SBK	CM050120YBK CM050230YBK CM050277YBK CM050346YBK	CM050240DEK CM050480DEK
Operating Voltage	120VAC	120/240VAC 240/480VAC	120/208VAC 230/400VAC 277/480VAC 346/600VAC	240VAC 480VAC
Phase	Single	Split	Three/Wye	Three/Delta
Wiring	2 Wire+G	3 Wire+G	4 Wire+G	3 Wire+G
Modes of Protection	L-N; N-G	L-N; N-G	L-N; N-G	L-L
Operating Voltage RangeNominal Voltage +/- 25% (120V), all others +/-15%				
Operating Frequency				47-63Hz
Fault Current Rating (SCCR)				200kAIC
ANSI/IEEE C62.41 Category				A, B, & C
Connection Type				#10 Wire leads, 24" long
Capacity				Continuous (Parallel Connection)
Surge Current Capacity (8x20µs)				50kA per mode
Enclosure Size (Inches)				3.12 L x 3.12 W x 3.50 H
Enclosure Rating				UL Type 4x
Weight				2.0 lbs.
Conduit Hub				Weather Tight
Indication of Suppression Status				Green and Red Status LED; Form C Relay Contacts
Response Time				<.5ns
Operation Temperature				-40°C to +85°C
Operation Humidity				0% to 95% Non-Condensing
Certifications				ANSI/UL 1449 Third Edition Type 1: cUL (Type 2 ONLY): ROHS Compliant
UL Location Type				Type 1
Nominal Discharge Current (In)				20kA
Warranty				5-Years

Ordering Information

Example

CM		050	120Y	B	K	N	-1
Surge Current Rating (per Mode)		050	50kA	UL Type			
				-1			
				ANSI/UL 1449 Type 1			
Voltage Configuration		120N	120V Single Phase, 2W + G	MOV Option			
		120S	120/240V Split Phase, 3W + G	N			
		120Y	120/208V Three Phase, 4W + G	Standard Operating Voltage			
		230Y	230/400V Three Phase, 4W + G	Remote Status			
		240D	240V Three Phase, 3W + G	K			
		240S	240/480V Split Phase, 3W + G	Remote Status Relay (Standard)			
		277Y	277/480V Three Phase, 4W + G	Modes of Protection			
		346Y	346/600V Three Phase, 4W+G	B			
		480D	480V Three Phase, 3W + G	L-N & N-G			
				E			
				L-L (Delta Models Only)			

ANSI/UL 1449 Third Edition - Voltage Protection Ratings (VPRs)

Operating Voltage	VPRs
120 Volt Systems	600V (L-N), 1200V (L-G), 600V (N-G), 1000V (L-L)
208 through 277 Volt Systems	1200V (L-N), 1200V (L-G), 1200V (N-G), 2000V (L-L)
480 Volt Systems	2000V (L-G), 2500V (L-L)

Optional DIN Rail Mounting Assembly

Allows CM Series to be installed on standard 35mm industrial DIN Rail
Part Number: CM-DIN (sold separately)

Headquarters

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Technical Support

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