

■ Surge Protection  
For *Business-Critical Continuity™*

## PowerSure™ CM Series Compact Surge Protection Solution



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.

### 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.**

## 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 Range	Nominal 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)		UL Type	
050	50kA	-1	ANSI/UL 1449 Type 1
Voltage Configuration		MOV Option	
120N	120V Single Phase, 2W + G	N	Standard Operating Voltage
120S	120/240V Split Phase, 3W + G		
120Y	120/208V Three Phase, 4W + G		
230Y	230/400V Three Phase, 4W + G		
240D	240V Three Phase, 3W + G		
240S	240/480V Split Phase, 3W + G		
277Y	277/480V Three Phase, 4W + G		
346Y	346/600V Three Phase, 4W+G		
480D	480V Three Phase, 3W + G		
		Remote Status	
		K	Remote Status Relay (Standard)
		Modes of Protection	
		B	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

Surge Protection  
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## Technical Support

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