

Tier 460 Motor SPD Contactor Restart 30 or 60 Amp

400 Series Surge Protective Device With Active Monitoring & Control Tier 460 M3 Modular Disconnect



Features:

Surge

- Thermally Protected MOV
- Surge Levels Available: 50 kA/Mode, 100kA/ Phase to 150 kA/Mode, 300kA/ Phase
- ANSI/UL 1449 4th Edition, CSA
- Sine Wave Tracking: Type 2
- Surge Impulse Rated and Tested

Monitoring & Control

- Monitor Under/Over Voltage, Phase Loss, Imbalance
- Audible Alarm w/ disable switch, and LED indication
- Active Load Disconnect and Reset
- User Selectable Controls:
- +/- 5, 7.5, 10, 15, 20, 25%
 Over/Under Voltage Trip Settings
- Auto restart available with user selectable reset time. Includes: No delay, 5s, 10s, 30s, 1m, 5m, 10m, No restart

Why Install Surge Protection with Dedicated Motor Protection?

Transient impulses can significantly impact your facility's power quality, easily disrupting or damaging your process or equipment. While it's important to protect against high-energy events with surge protection, a more frequent, yet often overlooked power quality concern is the damage caused by a phase loss, a temporary voltage sag, or a voltage swell condition. Disconnecting your sensitive loads during these longer duration PQ events, is the easiest way to safeguard important equipment.

Why Install a Tier 460 Contactor Auto Disconnect and Restart Controller?

The Tier 460 Motor Surge Protection Contactor Restart Device will protect a motor, or an entire system, from power quality events. It runs an onboard surge protection device with a series onboard contactor. The contactor will disconnect the load at predetermined levels, and will reconnect the load at separate predetermined levels automatically. The onboard SPD remains online while the load is disconnected. This twofold level of protection greatly improves system defenses from power disruption damage.

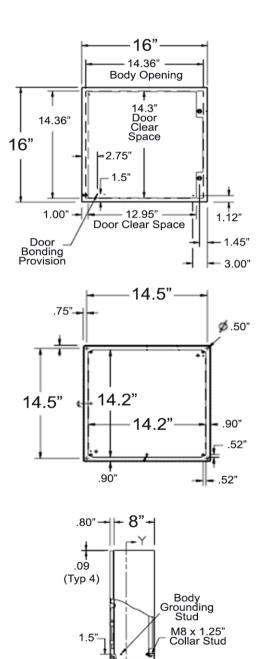
Innovative Solutions for Clean, Reliable Power



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Maximum Continuous Operating Voltage120 320Short Circuit Current Rating (SCCR)200Contactor Current Rating30 AProtection ModesAll COperating Frequency Range47 -UL 1449 Location TypeTypeUL 1449 Nominal Discharge Cur- rent (In)20 kConnectionDiscStatus IndicationBlue disaMonitoringUnd	tactor is Series V, 150 VAC, 125%; 240V, 320 VAC; 277V, VAC; 480V, 550 VAC; All Others 115% kAIC Surge; 22kAIC Contactor mp or 60 Amp (Both 120V Supply Voltage) Connected Modes: L-N, L-L, L-G, N-G 63 Hz				
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rent (In) 20 k Connection Disc Status Indication Blue disa Monitoring Und	e 1 or Type 2				
Status Indication Blue disa Monitoring Pha	A				
Monitoring disa	connect				
Pha	Blue/Red LEDs, Form C, Audible Alarm w/ disable switch				
	Under Voltage/ Over Voltage + activation LED, Phase loss, Phase Imbalance				
	/A 4, 12, &13 Rated (16 Gauge Steel)				
50 Ohm EMI/RFI Attenuation 60 /	40dB Max				
Response Time <0.5	nanoseconds				
Operating Temperature -40°	C to +75°C				
Operating Humidity 0%	to 95% non-condensing				
Weight 40lb	s				
50 - 150 kA/Mode Case Size 16.0	00" x 16.00" x 8.00"				
50 - 150 kA/Mode Mounting 14.5	50" x 14.50"				
Selectable Over/Under Voltage +/- 5	5%, 7.5%, 10%, 15%, 20%, 25%				
	ectable resets: No Delay, 5s, 10s, 30s, 1m,				
Warranty SPE	10 m, No Restart				



1.5"

1.16"-

.75"

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Table A: Voltage & Source Configuration						
Model Code	Voltage	Source Configuration				
000(N/S/Y/D)	N/A	N=Single, S=Split, Y= 3 Phs Wye, D=3 Phs Delta				
120S	120/240	Split Phase, 3W+G (L1, L2, N G)				
120N	120	Single Phase , 2W+G (L1, N, G)				
120Y	120/208	Three Phase Wye, 4W+G (L1, L2, L3, N, G)				
208N	208	Single Phase, 2W+G (L1, L2, G)				
240N	240	Single Phase, 2W+G (L1, L2, G)				
240D	240	Three Phase Delta, 3W+G (L1, L2, L3, G)				
277Y	277/480	Three Phase Wye, 4W+G (L1, L2, L3, N, G)				
480D	480	Three Phase Delta, 4W+G (L1, L2, L3, N, G)				

For Contactor Only Select 000 and one letter for your contactor phase

Table C: Enclosure Size					
Model Code	Dimensions	Capacity	Enclosure Material	Contactor Current or Shunt Trip Supply Volt	
2	13.50" x 13.00" x 6.375"	25kA	Steel	30 or 60 Amp	
5	8.695" x 11.25" x 4.000"	25kA	Polycarbonate	30 Amp; or 24V or 120V or 277V supply voltage	
3	16.00" x 16.00" x 8.00"	50kA- 150kA	Steel	30 or 60 Amp; or 24V or 120V or 277V supply voltage	
5	8.695" x 11.25" x 4.000"	None	Polycarbonate	30 Amp Contactor only	

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Table B: Surge Current Capacity					
Model Code	Surge Capacity /Mode	Surge Capacity / Phase			
000	None	None			
025	25 kA	50kA			
050	50 kA	100 kA			
075	75 kA	150 kA			
100	100 kA	200 kA			
125	125 kA	250 kA			
150	150 kA	300 kA			

Table D: Contactor Current or Shunt Trip Supply Voltage

Model Code	Contactor Current	Supply Voltage				
3	30 Amp	120 Volt				
6	60 Amp	120 Volt				
9	9 90 Amp 120 Volt					
A	None	24 Volt				
В	None	120 Volt				
С	None	277 Volt				
S	Custom	Custom				

Tier 460 Motor Protection Series, 460 Family Ordering Information: Example Model Number: T46120Y075ADM32C6									
Positions: 1-3 Product Family	Positions: 4-7 Voltage/ Phase Configuration	Positions: 8-10 Surge Capacity	Position: 11 Surge Protected Modes	Position: 12 Connection Type	Position: 13 Enclosure Type	Position: 14 Enclosure Size	Position: 15 UL Type	Position: 16 Options	Position: 17 Contactor Current or Shunt Trip Supply Voltage
T46 = 460 Family	See Table A	See Table B	A = All connected modes N=No Surge	W = Wire Lead L = Terminal Block D = Disconnect R = Line Cord Receptacle	P=NEMA 4X; Polycarbonate M=NEMA 4; Steel	See Table C	1=UL Type 1 2=UL Type 2 N= No Surge	S = Standard /No Options C = Surge Conter	See Table D

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