

Features:

- Protects 3-phase motors from:
 - Low voltage
 - Voltage unbalance
 - Single phase
 - Reverse phase
- Diagnostic LED
- UL listed
- 5-year warranty
- Made in USA

Model 250A-MET is an auto ranging voltage monitor designed to protect 3-phase motors regardless of size. It is used on 190-480VAC, 50/60Hz motors to protect the motors from damage caused by low voltage, voltage unbalance, single phasing and reverse phasing.

A unique microcontroller-based voltage and phase sensing circuit constantly monitors the three phase voltages to detect harmful power line conditions. When a harmful condition is detected, the MotorSaver's output relay is deactivated after a specified trip delay. The output relay reactivates after power line conditions return to an acceptable level for a specified amount of time (restart delay), unless the unit is in the manual reset mode. The trip delay prevents nuisance tripping due to rapidly fluctuating power line conditions.

The 250A-MET has two Form C relays that operate independently of each other. The left-hand relay will energize when voltage conditions are good and de-energize when a fault condition is detected. The right-hand relay will only energize during a reverse-phase condition.

This unit was designed for use in applications with fire control panels, but may be used anywhere these features are required.

Functional Specifications	
Low Voltage (% of setpoint) Trip Reset Voltage Unbalance (NEMA) Trip Reset Trip Delay Time Low Voltage Voltage Unbalance and single-phasing faults (> 25% unbalance) Restart Delay Time After a Fault or Complete Power Loss	85% +1% 88% +1% 6% 4.5% 4 seconds 2 seconds Adjustable, 2-300 seconds or manual
Input Characteristics	
Supply Voltage Frequency	190-480VAC 50/60Hz (Note: 50Hz will increase all delay timers by 20%)
Output Characteristics	
Output Contact Rating	480VA @ 240VAC Pilot Duty 10A @ 240VAC General Purpose
General Characteristics	
Operating Temperature Ambient Maximum Input Power Wire Gauge Terminal Torque Relative Humidity Standards Passed Electrostatic Discharge (ESD) Radio Frequency Immunity, Radiated Fast Transient Burst	-40° to 70° C (-40° to 158° F) 5 W Solid or Stranded 12 - 22AWG 13 inlbs. 10-95%, non-condensing per IEC 68-2-3 IEC 61000-4-2, Level 3, 6kV contact, 8kV air 150 MHz, 10V/m IEC 61000-4-4, Level 3, 4kV input power, 2kV inputs/out-
Surge IEC Hi-potential Test Safety Marks UL Listed Dimensions Weight Mounting Method	puts IEC 61000-4-5, Level 3, 6kV line-to-line, 6kV line-to-ground Meets UL508 (2 x rated V + 1000V for 1 minute) UL 508 (File #E68520) 2.93" H x 5.27" W x 2.95" D 14 oz. Surface Mount (with #8 screws)

1.47in [37.2mm] 2.93in [74.4mm] 4.50in [114.3mm] 5.27in [133.9mm] 2.95in [74.9mm] Max Typ.

0.15in[3.81mm] Typ.

Enclosure Dimensions

How to order:

Part Number: 250A-MET

