

3-Phase Voltage Monitor

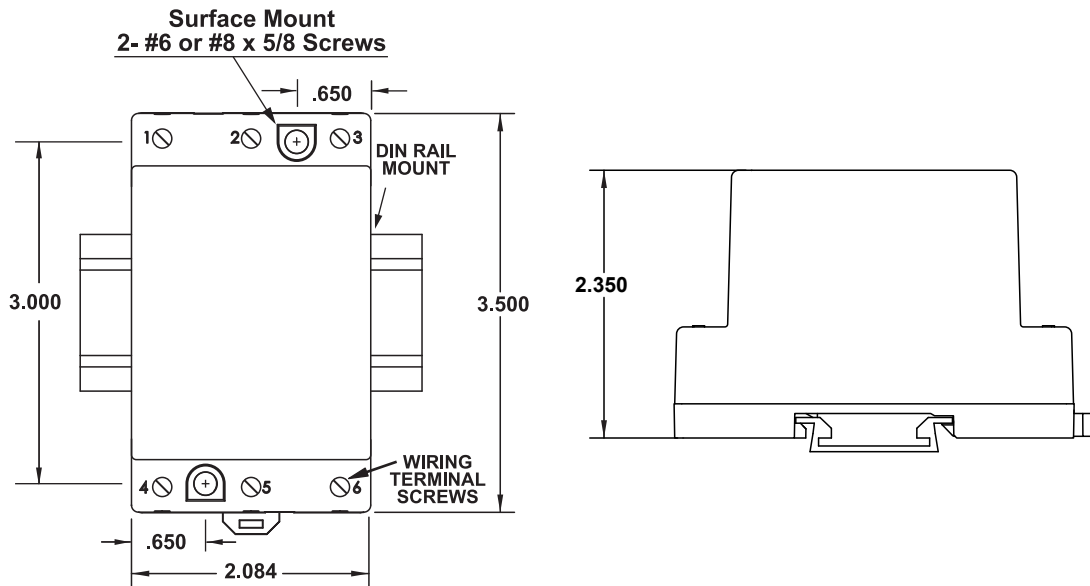
Model 460-400Hz



The Model 460-400Hz is designed to protect 3-phase, 400Hz motors from damaging power conditions. The 460s wide operating range combined with UL and CE compliance enables quick access to domestic and global markets.

A unique microcontroller-based voltage and phase-sensing circuit constantly monitors the 3-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). The trip delay prevents nuisance tripping due to rapidly fluctuating power line conditions.

The Model 460-400Hz has an operating range from 190-480V, 400Hz.



Specifications

Functional Specifications	
Low Voltage (% of setpoint) Trip Reset	90% +1% 93% +1%
High Voltage (% of setpoint) Trip Reset	110% +1% 107% +1%
Voltage Unbalance (NEMA) Trip Reset	2-8% adjustable Trip setting minus 1% (5-8%) Trip setting minus 0.5% (2-4%)
Trip Delay Time Low, High and Unbalanced Voltage Single-phasing faults (> 25% unbalance)	1-30 seconds adjustable 1 second fixed
Restart Delay Time After a Fault After a Complete Power Loss	1-500 seconds adjustable 1-500 seconds adjustable
Input Characteristics	
Supply Voltage Frequency	190-480VAC 400Hz
Output Characteristics	
Output Contact Rating-1 Form C	10A General Purpose @240VAC Pilot Duty 480VA@240VAC, B300
General Characteristics	
Operating Temperature Ambient Storage Power Consumption Wire Gauge Terminal Torque Class of Protection Relative Humidity Standards Passed Electrostatic Discharge (ESD) Radio Frequency Immunity, Radiated Fast Transient Burst Surge IEC ANSI/IEEE Hi-potential Test Safety Marks UL CE Dimensions Weight Mounting Methods	-20° to 70° C (-4° to 158° F) -40° to 80° C (-40° to 176° F) 6 Watts (max.) Solid or Stranded 12 - 20AWG, one per terminal 6 in.-lbs. IP20, NEMA 1 (finger-safe) 10-95%, non-condensing per IEC 68-2-3 IEC 1000-4-2, Level 3, 6kV contact, 8kV air 159 MHz, 10V/m IEC 1000-4-4, Level 3, 3.5kV input power & controls IEC 1000-4-5, Level 3, 4kV line-to-line Level 4, 4kV line-to-ground C62.41 Surge and Ring Wave Compliance to a level of 6kV line-to-line Meets UL508 (2 x rated V + 1000V for 1 minute) UL508 IEC 60947-6-2 2.08" L x 3.5" H x 2.35" D 14 oz. #8 screws

How to order:

Part Number: 460-400Hz



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