Proudly Distributed By Gross Automation

FX: 262-252-1616

Protection Relays Voltage Monitoring Relays



355 SERIES

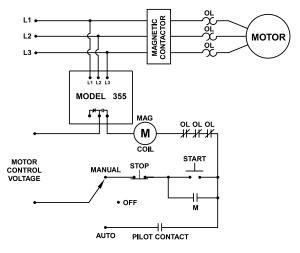
3-phase voltage/phase monitor



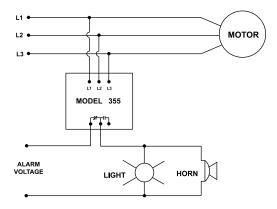


Wiring Diagram

TYPICAL WIRING DIAGRAM FOR MODEL 355 WITH MOTOR CONTROL



TYPICAL WIRING DIAGRAM FOR MODEL 355 WITH ALARM CONTROL



Description

The 355 Series is a 3-phase voltage monitor with adjustable trip and restart delay, adjustable voltage unbalance and multiple diagnostic lights. It is perfect for heavy-duty applications that need both protection and simple user-friendly diagnostics. Applications include pump panels, commercial HVAC, oil rigs and others.

The 355 Series uses microcontroller technology to monitor incoming voltage and de-energize its output relay if power problems exist. The 355 Series can protect motors from damage caused by single-phasing, high and low voltage, phase reversal and voltage unbalance. It has four diagnostic LEDs that clearly show overvoltage, undervoltage, voltage unbalance, reverse-phase and normal conditions.

The 355200 is equipped with a heavy-duty 10A general purpose SPDT relay. The 355400 and 355600 are equipped with a 470VA @ 600VAC pilot duty SPDT relay. A high voltage (600V) DPDT relay output option is available with the 400V model.

Features & Benefits

FEATURES	BENEFITS	
Proprietary microcontroller based circuitry	Constantly monitors 3 phase voltage to protect against harmful line conditions, even before the motor is started	
Advanced LED indication	Provides diagnostics which can be used for troubleshooting and to determine relay status	
Adjustable trip and restart delay settings	Prevent nuisance tripping due to rapidly fluctuating power line conditions and allows staggered start up of multiple motors, after a fault, to prevent a low voltage condition	
Combines protection and diagnostics	Perfect for heavy duty applications: pump panels, commercial HVAC, and oil rigs	
600V rated relay contacts available on some models	Eliminates the need for a control transformer to step voltage down to 120 - 240V for a control circuit	

Ordering Information

MODEL	LINE VOTAGE	DESCRIPTION
355200	190-240VAC	SPDT
355400	380-480VAC	SPDT
3554005	380-480VAC	DPDT
355600	475-600VAC	SPDT

© 2016 Littelfuse Protection Relays & Controls www.littelfuse.com/355

www.GrossAutomation.com

Rev: 1-A-062716

Proudly Distributed By Gross Automation

Protection Relays Voltage Monitoring Relays

FX: 262-252-1616



Specifications

355 SERIES

Input Characteristics Line Voltage 355200 355400 355600 (Specify voltage range) Frequency **Functional Characteristics** Low Voltage (% of setpoint) Trip Reset High Voltage (% of setpoint) Trip Reset Voltage Unbalance (NEMA) Trip Reset Trip Delay Time: Low & High Voltage and Unbalance Single-phasing Faults (>25% UB) **Restart Delay Time** After a Fault or Power Loss **Output Characteristics Output Contact Rating** SPDT (355200) **Pilot Duty General Purpose** SPDT (355400, 355600) **Pilot Dutv** DPDT (-5 Option)

Pilot Duty

190-240VAC 380-480VAC 475-600VAC

50*/60Hz

90% ±1% 93% ±1%

110% ±1% 107% ±1%

2-8% adjustable Trip setting minus 1%

2-30 seconds adjustable

2 seconds

Manual, 2-300 seconds adj.

480VA at 240VAC 10A

470VA @ 600VAC

470VA @ 600VAC

General Characteristics

Temperature Range Operating Storage Repeat Accuracy Fixed Conditions Maximum Input Power Terminal Torque Wire Size Transient Protection (Internal) Safety Marks UL Dimensions

Weight Mounting Method Special Options Option 5 - DPDT Relay 7 in.-lbs. 12-18AWG 2500V for 10 ms

-40° to 70°C (-40° to 158°F)

-40° to 80°C (-40° to 176°F)

±0.1%

6 W

UL508 (File #E68520) H 74.42 mm (2.93"); W 133.86 mm (5.27"); D 74.93 mm (2.95") 0.94 lb. (15.04 oz., 426.38 g) #8 screws

*Note: 50Hz will increase all delay times by 20%.