

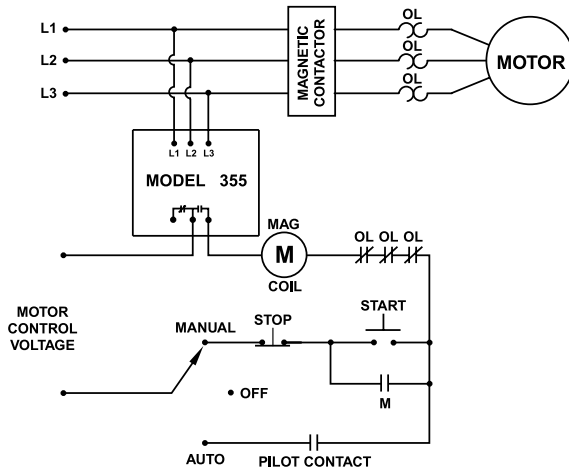
355 SERIES

3-phase voltage/phase monitor

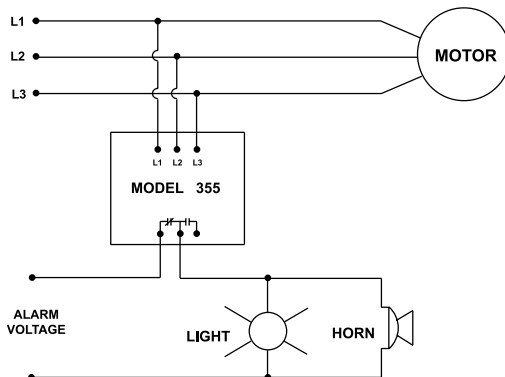


Wiring Diagram

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 VOLTAGE | DESCRIPTION |
|---------|--------------|-------------|
| 355200 | 190-240VAC | SPDT |
| 355400 | 380-480VAC | SPDT |
| 3554005 | 380-480VAC | DPDT |
| 355600 | 475-600VAC | SPDT |

355 SERIES

Specifications

Input Characteristics

Line Voltage

| | |
|---------------|------------|
| 355200 | 190-240VAC |
| 355400 | 380-480VAC |
| 355600 | 475-600VAC |

(Specify voltage range)

| | |
|------------------|----------|
| Frequency | 50*/60Hz |
|------------------|----------|

Functional Characteristics

Low Voltage (% of setpoint)

| | |
|--------------|---------|
| Trip | 90% ±1% |
| Reset | 93% ±1% |

High Voltage (% of setpoint)

| | |
|--------------|----------|
| Trip | 110% ±1% |
| Reset | 107% ±1% |

Voltage Unbalance (NEMA)

| | |
|--------------|-----------------------|
| Trip | 2-8% adjustable |
| Reset | Trip setting minus 1% |

Trip Delay Time:

Low & High Voltage

| | |
|----------------------|-------------------------|
| and Unbalance | 2-30 seconds adjustable |
|----------------------|-------------------------|

Single-phasing Faults

| | |
|---------------------|-----------|
| (>25% UB) | 2 seconds |
|---------------------|-----------|

Restart Delay Time

| | |
|------------------------------------|----------------------------|
| After a Fault or Power Loss | Manual, 2-300 seconds adj. |
|------------------------------------|----------------------------|

Output Characteristics

Output Contact Rating

| | |
|------------------------------|-----------------|
| SPDT (355200) | |
| Pilot Duty | 480VA at 240VAC |
| General Purpose | 10A |
| SPDT (355400, 355600) | |
| Pilot Duty | 470VA @ 600VAC |
| DPDT (-5 Option) | |
| Pilot Duty | 470VA @ 600VAC |

General Characteristics

Temperature Range

| | |
|------------------|------------------------------|
| Operating | -40° to 70°C (-40° to 158°F) |
|------------------|------------------------------|

| | |
|----------------|------------------------------|
| Storage | -40° to 80°C (-40° to 176°F) |
|----------------|------------------------------|

Repeat Accuracy

| | |
|-------------------------|-------|
| Fixed Conditions | ±0.1% |
|-------------------------|-------|

| | |
|----------------------------|-----|
| Maximum Input Power | 6 W |
|----------------------------|-----|

Terminal

| | |
|---------------|------------|
| Torque | 7 in.-lbs. |
|---------------|------------|

| | |
|------------------|----------|
| Wire Size | 12-18AWG |
|------------------|----------|

Transient Protection

| | |
|-------------------|-----------------|
| (Internal) | 2500V for 10 ms |
|-------------------|-----------------|

Safety Marks

| | |
|-----------|----------------------|
| UL | UL508 (File #E68520) |
|-----------|----------------------|

| | |
|-------------------|--|
| Dimensions | H 74.42 mm (2.93"); W 133.86 mm (5.27"); |
|-------------------|--|

| | |
|--|---------------------------|
| | D 74.93 mm (2.95") |
|--|---------------------------|

| | |
|---------------|--------------------------------|
| Weight | 0.94 lb. (15.04 oz., 426.38 g) |
|---------------|--------------------------------|

| | |
|------------------------|-----------|
| Mounting Method | #8 screws |
|------------------------|-----------|

Special Options

Option 5 - DPDT Relay

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.