

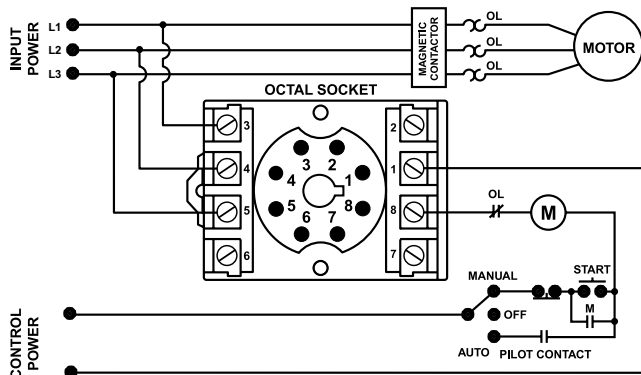
201A-AU SERIES

3-Phase Voltage/Phase Monitor

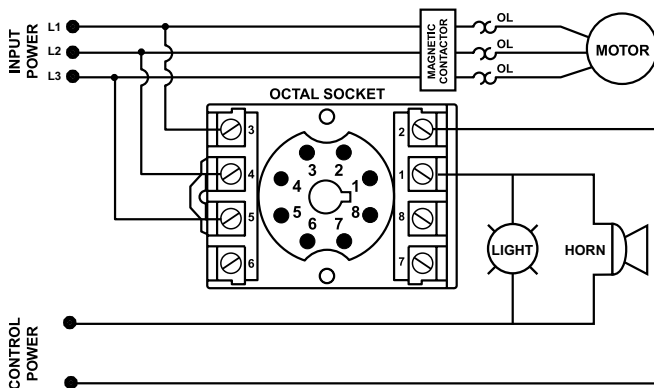


Wiring Diagram

201A-AU WITH MOTOR CONTROL



201A-AU WITH ALARM CONTROL



Description

The 201A-AU is a 3-phase, auto-ranging, dual-range voltage monitor that protects 190-480VAC, 50/60Hz motors regardless of size. The product provides a user selectable nominal voltage setpoint and the voltage monitor automatically selects between the 200V and 400V range. Additional adjustment knobs allow the user to set a 1-30 second trip delay, a manual restart or 1-500 second restart delay and a 2-8% voltage unbalance trip point. The Model 201A-AU includes advanced single LED diagnostics, where color and light patterns distinguish between faults and normal conditions.

This unique microcontroller-based voltage and phase-sensing device constantly monitors the 3-phase voltages to detect harmful power line conditions. When a harmful condition is detected, the 201A-AU's output relay is deactivated after a specified trip delay. The output relay reactivates after power line conditions return to acceptable levels for a specified amount or restart delay time (or manual reset).

Features & Benefits

| FEATURES | BENEFITS |
|--|--|
| Proprietary microcontroller based circuitry | Constant monitoring of loss of any phase, low voltage, high voltage, voltage unbalance, phase reversal, rapid cycling, harmful power line conditions |
| Compact design for 8-pin; DIN rail or surface mount | Allows flexibility in panel installation |
| Auto-sensing wide voltage range | Automatically senses system voltage between 190 - 480VAC. Saves setup time. |
| Advanced LED diagnostics | Quick visual indicator for cause of trip. |
| Adjustable voltage unbalance trip setting | Allows compatibility with a variety of motors and reduces nuisance tripping. |
| Adjustable trip & restart delay settings | Prevent nuisance tripping due to rapidly fluctuating power line conditions. |

Accessories



OT08PC Octal 8-pin Socket

8-pin 35mm DIN rail or surface mount. Rated at 10A @ 600VAC. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.

Ordering Information

| MODEL | LINE VOLTAGE | DESCRIPTION |
|---------------|--------------|-------------------------------|
| 201A-AU | 190-480VAC | DIN rail or surface mountable |
| 201575-AU | 475-600VAC | DIN rail or surface mountable |
| 201A-AU-OT | 190-480VAC | Sold with OT08PC socket |
| 201-575-AU-OT | 475-600VAC | Sold with OT08PC socket |

201A-AU SERIES

Specifications

| | |
|---|--|
| 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% (5-8%) Trip Setting Minus 0.5% (2-4%) |
| Trip Delay Time | |
| High, Low and Unbalanced Voltage | 1-30 seconds adjustable |
| Single-Phasing Faults | 1 second fixed |
| Restart Delay Time | |
| After a Fault | Manual, 1-500 seconds adj. |
| After a Complete Power Loss | Manual, 1-500 seconds adj. |
| Output Characteristics | |
| Output Contact Rating (1-Form C) | |
| Pilot Duty | 480VA @ 240VAC, B300 |
| General Purpose | 10A @ 240VAC |
| General Characteristics | |
| Ambient Temperature Range | |
| Operating | -40° to 70°C (-40° to 158°F) |
| Storage | -40° to 80°C (-40° to 176°F) |
| Trip & Reset Accuracy | ±1% |
| Maximum Input Power | 5 W |
| Relative Humidity | 10-95%, non-condensing per IEC 68-2-3 |
| Terminal Torque | 12 in.-lbs. (for OT08-PC socket) |
| Wire Gauge | 12-22 AWG solid or stranded |

Standards Passed

| | |
|---|--|
| Electrostatic Discharge (ESD) | IEC 61000-4-2, Level 3, 6kV contact, 8kV air |
| Radio Frequency Immunity, Radiated | 150 MHz, 10V/m |
| Fast Transient Burst | IEC 61000-4-4, Level 3, 3.5kV input power and controls |

Surge

| | |
|--------------------------|---|
| IEC | IEC 61000-4-5, Level 3, 4kV line-to-line; Level 4, 4kV line-to-ground |
| ANSI/IEEE | C62.41 Surge and Ring Wave Compliance to a level of 6kV line-to-line |
| Hi-potential Test | Meets UL508 (2 x rated V +1000V for 1 min.) |

Safety Marks

| | |
|--|---|
| UL (OT08PC octal socket required) | UL508 (File #E68520) |
| CE | IEC 60947-6-2 |
| Enclosure | Polycarbonate |
| Dimensions | H 44.45 mm (1.75"); W 60.325 mm (2.375"); D 104.775 mm (4.125") (with socket) |
| Weight | 0.7 lb. (11.2 oz., 317.51 g) |
| Mounting Method | DIN rail or surface mount (plug in to OT08PC socket) |
| Socket Available | OT08PC (UL Rating 600V) |

The 600V socket can be surface mounted or installed on DIN Rail.

Note: Manufacturer's recommended screw terminal torque for the OT Series Octal Sockets is 12 in.-lbs.

Must use Model OT08PC socket for UL Rating!

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9