

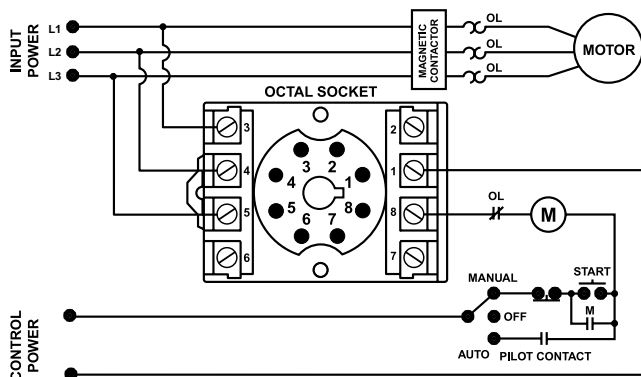
201A-AU SERIES

3-Phase Voltage/Phase Monitor

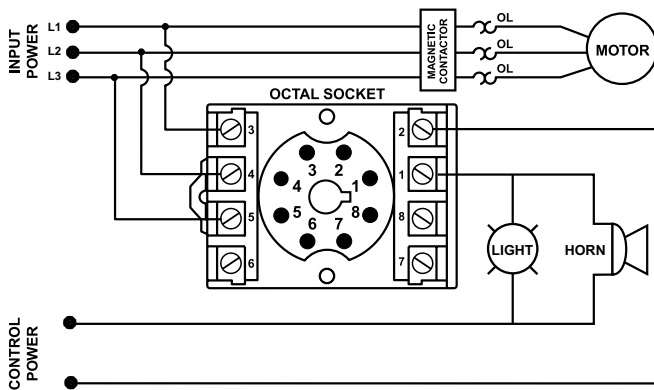


Wiring Diagram

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 | |
| Single-Phasing Faults | 1-30 seconds adjustable |
| Restart Delay Time | 1 second fixed |
| After a Fault | |
| 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

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