

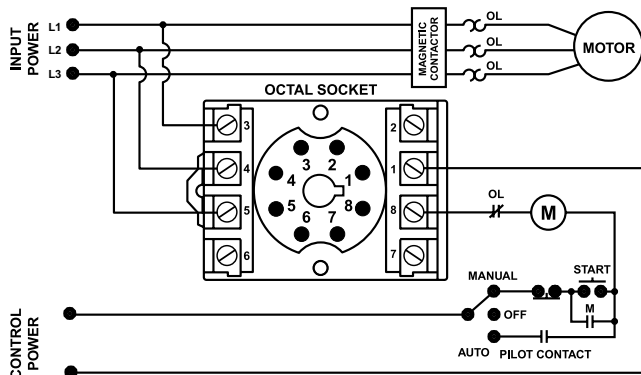
# 201A-AU SERIES

## 3-Phase Voltage/Phase Monitor

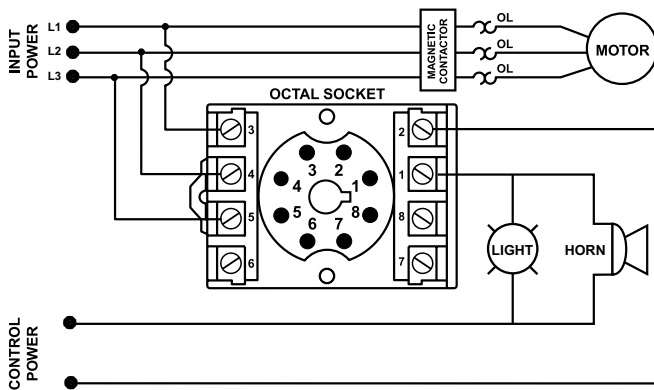


### Wiring Diagram

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

|   |  |
|---|--|
| <b>Frequency</b>                        | 50/60Hz  |
| <b>Functional Characteristics</b>       |  |
| <b>Low Voltage (% of setpoint)</b>      |  |
| <b>Trip</b>                             | 90% ±1%  |
| <b>Reset</b>                            | 93% ±1%  |
| <b>High Voltage (% of setpoint)</b>     |  |
| <b>Trip</b>                             | 110% ±1%   |
| <b>Reset</b>                            | 107% ±1%   |
| <b>Voltage Unbalance (NEMA)</b>         |  |
| <b>Trip</b>                             | 2-8% adjustable  |
| <b>Reset</b>                            | Trip Setting Minus 1% (5-8%)<br>Trip Setting Minus 0.5% (2-4%) |
| <b>Trip Delay Time</b>                  |  |
| <b>High, Low and Unbalanced Voltage</b> | 1-30 seconds adjustable  |
| <b>Single-Phasing Faults</b>            | 1 second fixed   |
| <b>Restart Delay Time After a Fault</b> | Manual, 1-500 seconds adj.                                     |
| <b>After a Complete Power Loss</b>      | Manual, 1-500 seconds adj.                                     |
| <b>Output Characteristics</b>           |  |
| <b>Output Contact Rating (1-Form C)</b> |  |
| <b>Pilot Duty</b>                       | 480VA @ 240VAC, B300   |
| <b>General Purpose</b>                  | 10A @ 240VAC   |
| <b>General Characteristics</b>          |  |
| <b>Ambient Temperature Range</b>        |  |
| <b>Operating</b>                        | -40° to 70°C (-40° to 158°F)                                   |
| <b>Storage</b>                          | -40° to 80°C (-40° to 176°F)                                   |
| <b>Trip &amp; Reset Accuracy</b>        | ±1%  |
| <b>Maximum Input Power</b>              | 5 W  |
| <b>Relative Humidity</b>                | 10-95%, non-condensing per IEC 68-2-3                          |
| <b>Terminal Torque</b>                  | 12 in.-lbs. (for OT08-PC socket)                               |
| <b>Wire Gauge</b>                       | 12-22 AWG solid or stranded                                    |

### Standards Passed

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

### Surge

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

### Safety Marks

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

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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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