

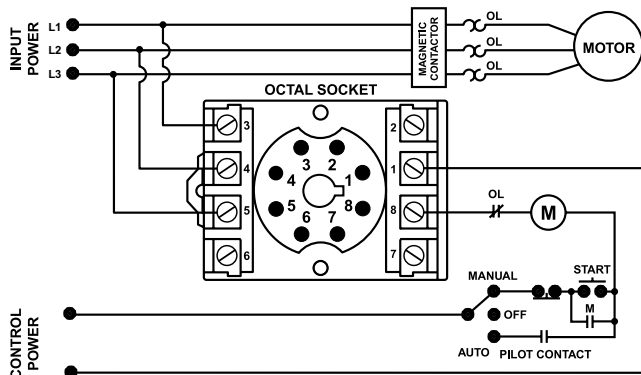
## 201A-AU SERIES

### 3-Phase Voltage/Phase Monitor

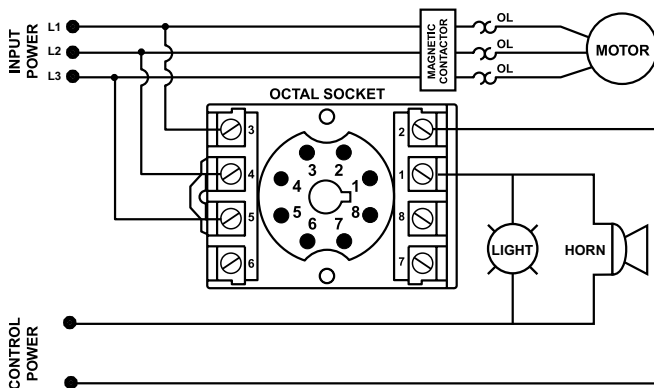


### Wiring Diagram

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 190–480 V ac, 50/60 Hz motors regardless of size. The product provides a user selectable nominal voltage setpoint and the voltage monitor automatically selects between the 200 V and 400 V 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 190–480 V ac. 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 35 mm DIN rail or surface mount. Rated at 10A @ 600 V ac. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.

### Ordering Information

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

## 201A-AU SERIES

### Specifications

<b>Frequency</b>	50/60 Hz
<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%) 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</b>	
<b>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>	480 VA @ 240 V ac, B300
<b>General Purpose</b>	10 A @ 240 V ac
<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, 6 kV contact, 8 kV air
<b>Radio Frequency Immunity, Radiated</b>	150 MHz, 10 V/m
<b>Fast Transient Burst</b>	IEC 61000-4-4, Level 3, 3.5 kV input power and controls

### Surge

<b>IEC</b>	IEC 61000-4-5, Level 3, 4 kV line-to-line; Level 4, 4 kV line-to-ground
<b>ANSI/IEEE</b>	C62.41 Surge and Ring Wave Compliance to a level of 6 kV line-to-line
<b>Hi-potential Test</b>	Meets UL 508 (2 x rated V +1000 V for 1 min.)

### Safety Marks

<b>UL (OT08PC octal socket required)</b>	UL 508 (File #E68520)
<b>Enclosure</b>	Polycarbonate
<b>Dimensions</b>	<b>H</b> 44.45 mm (1.75"); <b>W</b> 60.325 mm (2.375"); <b>D</b> 104.775 mm (4.125") (with socket)

### Weight

### Mounting Method

### Socket Available

<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 600 V)

The 600 V 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!**