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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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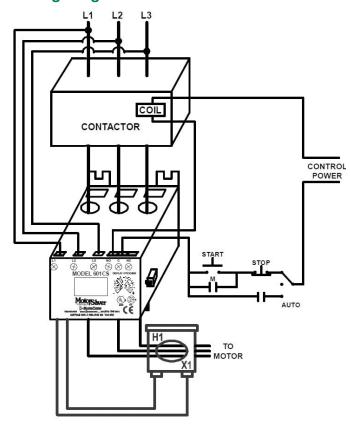


### 601-CS-D-P1

# Monitors a zero-sequence CT for high accuracy ground fault protection



#### Wiring Diagram





#### **Description**

The 601-CS-D-P1 3-phase power monitor is a fully programmable electronic power monitor designed to monitor 3-phase systems. The 601-CS-D-P1 has a single relay that can be configured as a general purpose network output or to trip on ground faults. The 601-CS-D-P1 monitors ground fault current, phase currents, phase voltages, power factor and frequency. The RS485MS-2W communications module allows the 601-CS-D-P1 to communicate using the Modbus RTU protocol. The Modbus connection can be used to monitor power parameters, setup the device or control the fault relay. A DeviceNet™ communications I/O module (CIO-601CS-DN-P1) is available as well. This CIO module only works with the 601-CS-D-P1 unit. It is used for sending the information from the 601-CS-D-P1 over a DeviceNet™ network. It also provides I/O capabilities and the ability to set the parameters of the 601-CS-D-P1.

Note: This product must be used with an external Zero-Sequence CT for proper operation (not included).

#### **Features & Benefits**

FEATURES	BENEFITS
Built-in display	Visual indication for programming and viewing real-time parameters for nominal voltage, voltage unbalance, current, current unbalance, ground fault warning, ground fault trip, and ground fault motor acceleration
15 Programmable parameters to control the device operation	Allows the user to customize the protection required for their system
2 programmable trip delay timers	Program separate trip delay time for motor acceleration and ground fault
Network communications capability	Compatible with Modbus RTU and DeviceNet™ protocols with the use of separate communications module

#### **Accessories**



#### CIO-601CS-DN-P1 Module

Convenient, cost-effective DeviceNet<sup>™</sup> interface device capable of providing discrete control and monitoring of motor starters, drives and other devices over a DeviceNet<sup>™</sup> network.

#### 601-CS-D-P1

#### **Specifications**

**Input Characteristics** 

Line Voltage 200-480VAC Frequency 50/60Hz

Motor Full Load Amp Range 0.5-175A (direct) 176-800A (CTs required)

**Input Ground Fault Current** 

**Output Characteristics** 

**Output Contact Rating (SPDT)** 

**Pilot Duty** 480VA @ 240VAC General Purpose 10A @ 240VAC

**Expected Life** 

Mechanical 1 x 10<sup>6</sup> operations

**Electrical** 1 x 10<sup>5</sup> operations at rated load

**General Characteristics** 

**Ambient Temperature Range** 

Operating -20° to 70°C (-4° to 158°F) Storage -40° to 80°C (-40° to 176°F)

Accuracy at 25° C (77° F)

Voltage +/-1%

Current +/-3% (<175A direct)

**GF Current** +/-3%

Repeatability Voltage +/-0.5% of nominal voltage Current +/-1% (<175A direct)

**Maximum Input Power** 10 W Pollution Degree 3 **Class of Protection** IP20

**Relative Humidity** 10-95%, non-condensing per IEC 68-2-3

**Terminal Torque** 7in.-lbs.

#### Standards Passed

Electrostatic Discharge (ESD) IEC 61000-4-2, Level 3, 6kV contact, 8kV air

Radio Frequency Immunity,

Conducted IEC 61000-4-6, Level 3 10V

**Radio Frequency** Immunity, Radiated IEC 61000-4-3, Level 3, 10 V/m

**Fast Transient Burst** IEC 61000-4-4, Level 3, 3.5kV input power

**Short Circuit Rating** 100kA rms, SYM, 600VAC max.

Surge

**Immunity IEC** IEC 61000-4-5, Level 3, 2kV 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

**High Potential Test** Meets UL508 (2 x rated V +1000V for 1 minute)

**Safety Marks** 

UL UL508 (File #E68520) CE IEC 60947-1, IEC 60947-5-1

**Max Conductor Size** (with insulation)

**Dimensions H** 77.47 mm (3.05"); **W** 97.79 mm (3.85");

> **D** 128.27 mm (5.05") 1.2 lbs. (19.2 oz., 544.31 g)

Weight **Mounting Method** Surface mount (4 - #8 screws) or

DIN rail mount