

DR6305

3Ø PHASE MONITOR

FEATURES

- $\pm 0/20$ mA Output
- Indicates Lost Phase
- Indicates Phase Reversal
- Jumper Selectable Input (300/600 VAC)
- 3 way, 1500 VAC Isolation
- DIN Rail Case
- Low Power Requirement (10-30 VDC @ 1.5 watt)
- 5 Year Warranty
- UL/cUL Recognized



DESCRIPTION

The DR6305 Phase Monitor is a multifunctional measurement instrument that provides:

1. Measurement of the voltage of 2 phases of a 3 phase power line to determine if all phases are present. The instrument outputs 0/20 mA and 0/-20 mA representing voltage for phase A to B and C to B respectively. One output switches between the 2 currents every 5 seconds. Only one bipolar input on the PLC is required to read voltage levels.
2. An optically isolated transistor switch output if voltage drops below preset level.

3. An optically isolated transistor switch for the indication of proper phase rotation.
4. An LED display to indicate
 - a. which current is being output
 - b. phase loss
 - c. phase reversal

The DR6305 monitors either 240 VAC or 480 VAC, 3 phase and provides DC output current proportional to the voltage of Phase A and Phase C referenced to Phase B. The DC output current alternates every 5 seconds between positive and negative to indicate A to B or C to B voltages respectively. This allows monitoring of 3 phase voltages with a single bipolar analog measuring device.

The voltage level is monitored and levels below a preset level are indicated by an optically isolated transistor switch output. An LED also indicates low voltage.

Phase angle is monitored and phase reversal is indicated by an optically isolated transistor switch output. An LED to indicate phase reversal is also provided.

Internal jumpers allow the product to be used to monitor 240 V or 480 V power systems.

SPECIFICATIONS

POWER

10 to 30 VDC, 1.5 watt

INPUT

300VAC or 600VAC Full Scale,
Jumper Selectable

OUTPUT

Analog

Current

Proportional Output - 0/20 mADC at 300/600VAC input between Phase A and Phase B 0/-20 mADC at 300/600VAC input between Phase C and Phase B (Switches between positive and negative every 5 seconds)

Digital

Low Phase Voltage

Optically isolated NP transistor, normally closed, turns off on low phase voltage (<190 VAC or <380 VAC depending on input selection).

Transistor is saturated switch, 50mA maximum current, 30 VDC maximum voltage.

Phase Reversal

Optically isolated NPN transistor, normally closed, turns off on phase reversal.

Transistor is saturated switch, 50mA maximum current, 30 VDC maximum voltage.

INDICATORS (LED)

Channel being output (AB or CB)

Phase Loss or Low Voltage
<190 V (or 380 V)

Phase Reversal

CONTROLS

Zero and Span adjustments for each channel

Switch to lock channel in AB or CB during calibration

All controls available on front panel

ISOLATION

Three way transformer isolation, between the 3 Phase AC input voltage, output signal, and the DC power supply voltage, of at least 1500 VAC sine wave.

ORDERING INFORMATION

INPUT

Select Full Scale Input

- 300 VAC 600 VAC

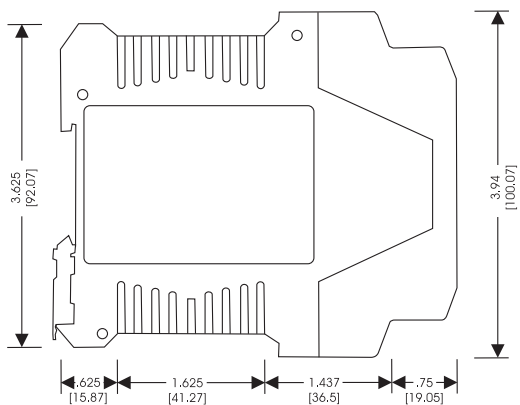
ACCESSORIES

DR1 DIN-Rail, 35 mm Symmetrical, 39 inches (1meter)

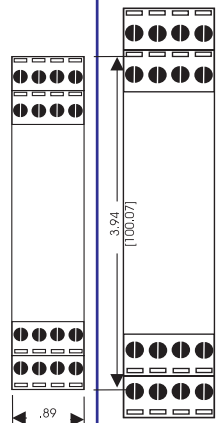
Qty _____

DIMENSIONS

Inches [mm]



CONNECTIONS



TERMINAL	CONNECTION
1	A Input
4	C Input
8	B Input
9	∅ Loss Alarm - Collector
10	∅ Loss Alarm - Emitter
11	∅ Rev. Alarm - Collector
12	∅ Rev. Alarm - Emitter
13	Analog Output +
14	Analog Output -
15	Power +
16	Power -