

WRA 2 SERIES PHASE CONTROL RELAY

UL listed CSA recognized (220 VAC Version Only)

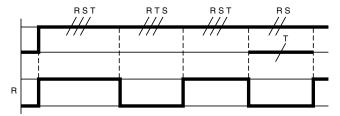
Monitors

Phase Sequence
Loss of Any Phase even if Induced Voltage
reaches 95% of Nominal Voltage

- LED Relay Status Indicator
- DPDT 5 Amp Relay Output



MODE OF OPERATION:



The WRA 2 Phase Control Relay monitors the sequence loss or reversal of three phase power supplies. The output relay is energized when the phase sequence is correct and is de-energize when the phase sequence is wrong or one phase is lost. It monitors the symmetry of 3 voltages and a loss of phase even when the voltage is reinjected through a machine. The rate of asymmetry is controlled between 5% and 15% by a top mounted potentiometer.

SPECIFICATIONS:

 Power consumption
 3 VA at 220 V

 Output
 DPDT relay

 Contact material
 AgCdO

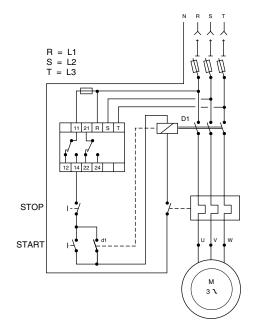
Mechanical life of relay 30 x 106 operations

Electrical life of relay $2 \times 10^{\circ}$ operations at 2200 VA resistive load Operating temperature $+14^{\circ}$ F to $+140^{\circ}$ F -10° C to $+60^{\circ}$ C

Weight 7 oz. (200g)

Note: The alarm threshold adjustment is 5% to 15% of asymmetry between the phases. The initial response time is .1 seconds at 5% asymmetry and 1 second at 15% after input power is applied. When a phase loss or failure occurs, the "off delay" response time is 100 ms.

WIRING DIAGRAM:



DWRA 2	11	12	14	R	S	Т	21	22	24
LWRA 2	1	4	3	5	6	7	11	8	9

ORDERING INFORMATION:







Products and specifications subject to change without notice. Consult factory for application assistance.

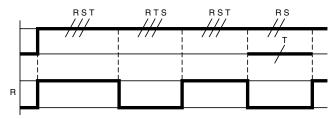
RS SERI PHASE CONTROL RELAY

UL listed CSA recognized

- **Monitors Phase Sequence Loss of Any Phase**
- **LED** Indicator
- 10 Amp SPDT Output
- Low Cost



MODE OF OPERATION:



The WRS Phase Control Relay monitors the sequence loss or reversal of three phase power supplies. The output relay is energized when the phase sequence is correct and is de-energize when the phase sequence is wrong or one phase is lost.

SPECIFICATIONS:

Input Power Directly 3 x 220 60 Hz from controlled voltage ±15% 3 x 380 60 Hz 3 x 440 60 Hz Power consumption 3 VA at 220 V Output SPDT relay Contact material AgCdO

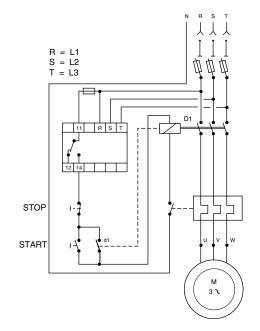
1 A SC inductive Maximum Loading 10 AC resistive Maximum switching voltage ... 250 VAC 250 VDC Relay max. power rating 2200 VA 30 W

Mechanical life of relay 30 x 106 operations

Electrical life of relay 2 x 10^s operations at 2200 VA resistive load Operating temperature +14°F to +140°F -10°C to +60°C

Weight 7 oz. (200g)

WIRING DIAGRAM:



DWRS	11	12	14	R	S	Т
LWRS	1	4	3	5	6	7
PWRS	1	2	8	3	4	5

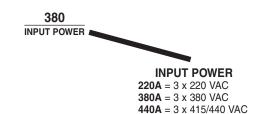
ORDERING INFORMATION:

P = 8 pin plug-in



SERIES **SERIES** WRS

WRS



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