

Excellent Integrated System Limited

Stocking Distributor

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Crouzet USA PWRS220A

For any questions, you can email us directly: sales@integrated-circuit.com



Datasheet of PWRS220A - CONTROL RELAY PHASE 3X220VAC

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

CONTROLS



CONTROLS

RL SER PHASE CONTROL RELAY

UL listed CSA recognized

Monitors

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

- **Under Voltage Detection**
- **Trip Delay Timer Built-in**
- **LED Relay Status Indicator**



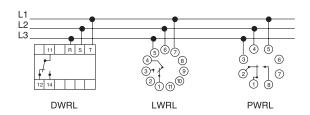
MODE OF OPERATION:

The WRL 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 the phase voltage is above the voltage threshold set by the front knob. The output relay will de-energize after 2 seconds (built-in timer) when the phase voltage drops under the voltage threshold or when phase sequence is lost. The WRL Series is available in three voltage ranges: 230 VAC, 380 VAC and 480 VAC.

SPECIFICATIONS:

Input Power	3 x 380 (50/60 Hz)
Maximum voltage	3 x 420 VAC
Minimum voltage	3 x 530 VAC 3 x 160 VAC 3 x 260 VAC 3 x 340 VAC
Threshold adjustment range	
Max power consumption Dial accuracy Temperature De-rating Dead Band Response Time	2 VA ±10% ±0.04%/°C 4% of 480 VAC 300 ms on Make 2 sec on Break
Output SPDT Version (WRL) Series) Max. power consumption Max. voltage Electrical life Mechanical life Operating temperature Weight	10 Amp 250 VAC 2000 VA 250 VAC

WIRING DIAGRAM:



ORDERING INFORMATION:



WRL SERIES **SERIES** WRL = SPDT Version



Products and specifications subject to change without notice.



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WRA SERIES PHASE CONTROL RELAY

UL listed CSA recognized (220 VAC Version Only)

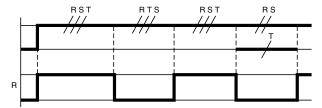
Monitors

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

- LED Relay Status Indicator
- SPDT 10 Amp Relay Output



MODE OF OPERATION:



The WRL 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:

 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

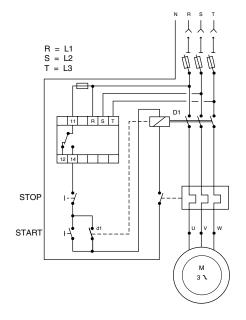
Maximum Loading10 AC resistive8A DC inductiveMaximum switching voltage250 VAC250 VDCRelay max. power rating220 VA80 W

Mechanical life of relay 30 x 10⁶ operations

Weight 7 oz. (200g)

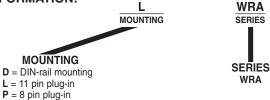
Note: The alarm threshold adjustment is 5% to 15% of asymmetry between the phases. The initial response time is .1 seconds at 5% asymmetry and 1 second at 15% after input power is applied. When a phase loss or failure occurs, the "off delay" response time is 100 ms.

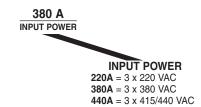
WIRING DIAGRAM:



DWRA	11	12	14	R	S	Т
LWRA	1	4	3	5	6	7
PWRA	1	2	8	3	4	5

ORDERING INFORMATION:





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CONTROLS



CONTROLS

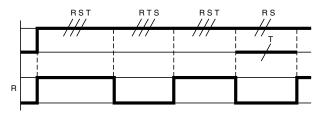
WRA 2 SERIES PHASE CONTROL RELAY

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

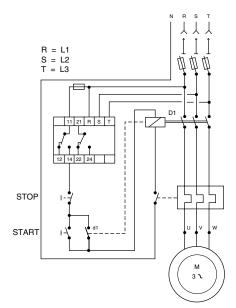
Mechanical life of relay 30 x 10⁶ operations

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

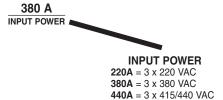


DWRA 2	11	12	14	R	S	Т	21	22	24
LWRA 2	1	4	3	5	6	7	11	8	9

ORDERING INFORMATION:



WRA 2
SERIES
SERIES
WRA 2



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CONTROLS

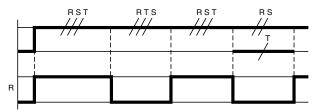
WRS SERIES PHASE CONTROL RELAY

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.

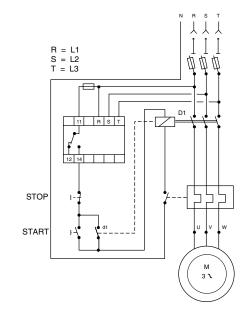
SPECIFICATIONS:

Maximum Loading10 AC resistive1 A SC inductiveMaximum switching voltage250 VAC250 VDCRelay max. power rating2200 VA30 W

Mechanical life of relay $30 \times 10^{\circ}$ operationsElectrical life of relay $2 \times 10^{\circ}$ operations at 2200 VA resistive loadOperating temperature $+14^{\circ}F$ to $+140^{\circ}F$ $-10^{\circ}C$ to $+60^{\circ}C$

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:



SERIES WRS



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