

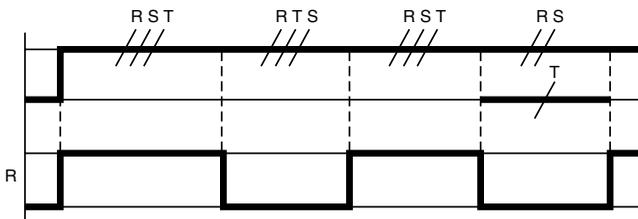
WRA SERIES PHASE CONTROL RELAY

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:



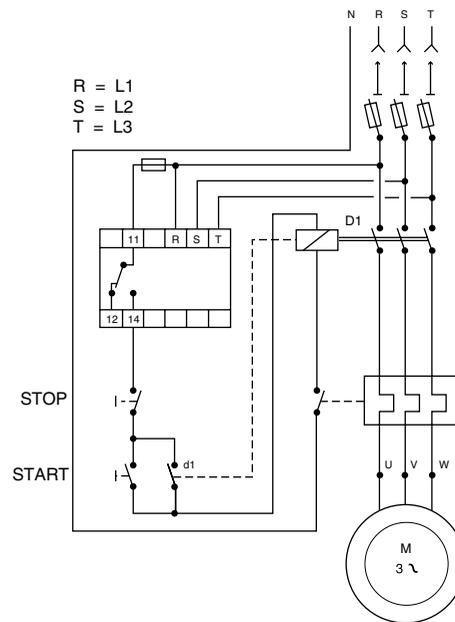
The WRL Phase Control Relay monitors the sequence loss or reversal of three phase power supplies. The output relay is energized when the phase sequence is correct and is de-energize when the phase sequence is wrong or one phase is lost. It monitors the symmetry of 3 voltages and a loss of phase even 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 Loading	10 AC resistive	8A DC inductive
Maximum switching voltage ..	250 VAC	250 VDC
Relay max. power rating	220 VA	80 W
Mechanical life of relay	30 x 10 ⁶ operations	
Electrical life of relay	2 x 10 ⁶ operations at 2200VA resistive load	
Operating temperature	+14°F to +140°F	-10°C to +60°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	11	12	14	R	S	T
LWRA	1	4	3	5	6	7
PWRA	1	2	8	3	4	5

ORDERING INFORMATION:



Products and specifications subject to change without notice.

Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

WRA 2 SERIES PHASE CONTROL RELAY

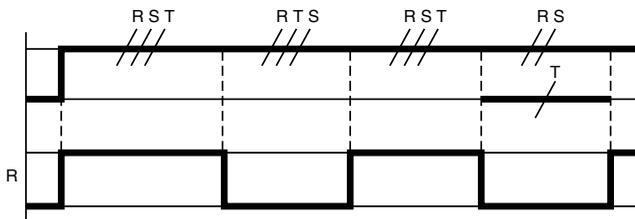
UL listed CSA recognized (220 VAC Version Only)



- **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:



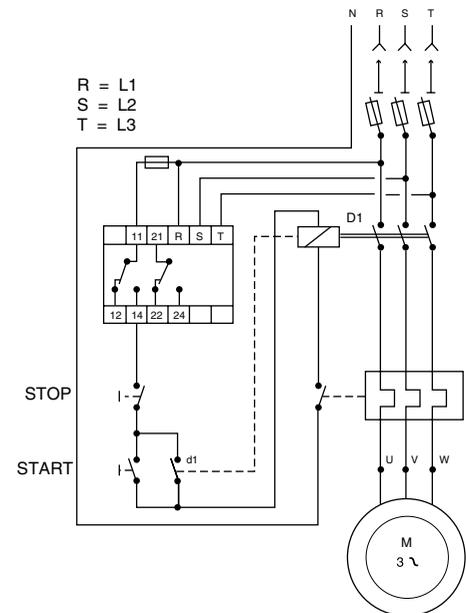
The WRA 2 Phase Control Relay monitors the sequence loss or reversal of three phase power supplies. The output relay is energized when the phase sequence is correct and is de-energize when the phase sequence is wrong or one phase is lost. It monitors the symmetry of 3 voltages and a loss of phase even 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
- Maximum Loading** 5 A AC resistive 1 A DC inductive
- Maximum switching voltage** 250 VAC 250 VDC
- Relay max. power rating** 1250 VA 30 W
- Mechanical life of relay** 30 x 10⁶ operations
- Electrical life of relay** 2 x 10⁶ operations at 2200 VA resistive load
- Operating temperature** +14°F to +140°F -10°C to +60°C
- Weight** 7 oz. (200g)

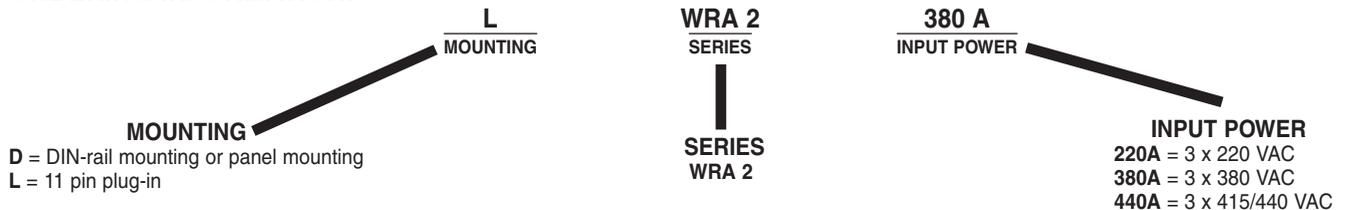
Note: The alarm threshold adjustment is 5% to 15% of asymmetry between the phases. The initial response time is .1 seconds at 5% asymmetry and 1 second at 15% after input power is applied. When a phase loss or failure occurs, the "off delay" response time is 100 ms.

WIRING DIAGRAM:



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

ORDERING INFORMATION:

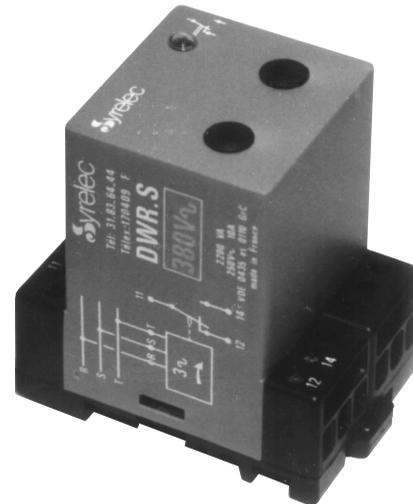


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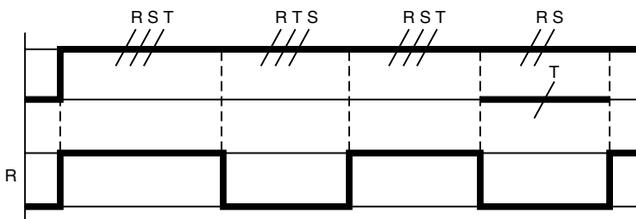
WRS SERIES PHASE CONTROL RELAY

UL listed CSA recognized



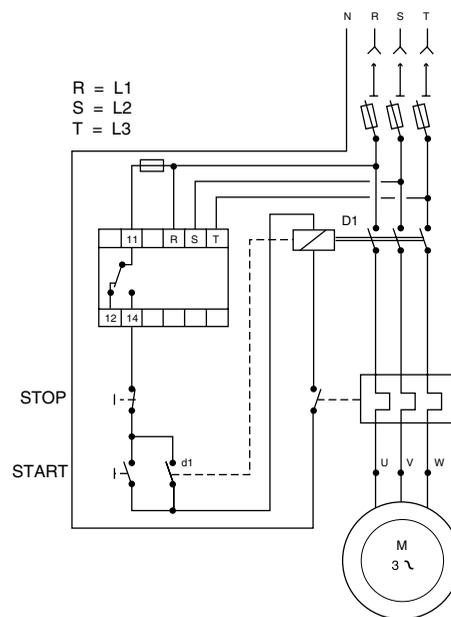
- **Monitors**
 Phase Sequence
 Loss of Any Phase
- **LED Indicator**
- **10 Amp SPDT Output**
- **Low Cost**

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.

WIRING DIAGRAM:



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 Loading	10 AC resistive	1 A SC inductive
Maximum switching voltage	250 VAC	250 VDC
Relay max. power rating	2200 VA	30 W
Mechanical life of relay	30 x 10 ⁶ operations	
Electrical life of relay	2 x 10 ⁶ operations at 2200 VA resistive load	
Operating temperature	+14°F to +140°F	-10°C to +60°C
Weight	7 oz. (200g)	

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

ORDERING INFORMATION:



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