PHASE FAILURE RELAYS WITH OVER & UNDER VOLTAGE CONTROL, WITH OPTIONAL SEQUENCE, TIME DELAYS



TYPES: YWRUPxx, 11WRUPxx, 8WRUPxx (spco) YWR2UPxx (dpco)

FEATURES

- Din rail mounted
- Available SPCO or DPCO output
- Available 3 wire or 4 wire
- Adjustable over & under voltage control
- Specify with or without phase sequence
- Optional adjustable time delay
- Self powered
- LED fault indication
- Transformer technology

DESCRIPTION & MODE OF OPERATION

Phase failure relays with independent over and under voltage control, with the option of additional sequence control. Available in either a din rail or 8 & 11 pin plug in housing SPCO with a DPCO option in the din rail housing. All units can be specified as 3 wire or 4 wire. As an option in the din rail housing an adjustable time delay can be specified (not true delay off), which is effective against voltage control, phase sequence (if applicable), but not phase loss or Neutral loss on 4 wire versions (loss of L3 only would produce a time delay). The units are transformers based and thus will ignore transients and harmonic distortions.

The output relay is energised when all three phases are connected and in sequence (if applicable) and within the set voltage limits. The output relay/s will de-energise if one or more voltages between phases are under the value of the minimum set level or above the value of the maximum set level, less any set time delay (if applicable). The units will also de-energise on loss of a phase or incorrect sequence (if applicable). Separate red LED indicators indicate over and under voltage conditions. If both are illuminated this indicates a phase sequence error (if applicable). A green LED indicates output relay status.

ORDERING INFORMATION

<u>TYPE</u>	SEQUENCE	TIME DELAY	VOLTAGE	SYSTEM
YWRUP (Din rail SPCO)	*S	**T 0.1-10sec	3 x 110V	3W (3 wire)
8WRUP (8 pin SPCO)		**T 0.2-20sec	3 x 220V	4W (4 wire)
11WRUP(11 pin SPCO)		**T 0.3-30sec	3 x 380V	
YWR2UP (Din rail DPCO)			3 x 400V	
			3x 415V	
			3 x 440V***	
			SPECIAL****	

OPTION

On 3 wire variants as a no cost option a separate AC auxiliary supply can be specified 24VAC, 48VAC, 110VAC. This gives the possibility of additional "control circuit" voltage monitoring. If this is lost or is not present, the unit will de-energise or not energise as applicable.

- * Insert S if sequence is required
- ** Insert Txxx if an adjustable time delay is required (din rail versions only)
- *** 440V only available as a 3 wire version
- **** Available on request special high voltage versions i.e 690V L-L. (Separate auxiliary supply required).

SPECIFICATIONS

Supply & Measuring

Nominal supply: 3 x 110V AC, 3 x 220V AC 3 x 380V AC, 3 x 400V AC 3 x 415V AC, 3 x 440V AC

Permanent tolerance: $\pm 15\%$ System: 3 or 4 wire option Frequency: 50/60Hz

Umin adjustable: 0-30% of nominal (phase to phase)
Umax adjustable: 0-20% of nominal (phase to phase)

Hysteresis: Fixed 3%

Delay on tripping: Optional 0.1-10sec, 0.2-20sec, 0.3-30sec

Otherwise fixed at 100mSec

Repeat accuracy: +2% of set values

Max power consumption: <3VA

Insulation: 2.5KV 50Hz impulse

Relay outputs:

Output contacts: SPC0 10Amps/250V AC1
DPC0 8Amps/250V AC1
Max breaking capacity: SPC0 4000VA

DPC0 2000VA
Mechanical life: 30 Million ops

Electrical life: 200K ops at max rated load

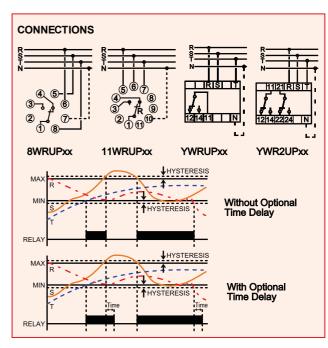
General:

In accordance with: EN61000-6-1: 2007

EN61000-6-3: 2007 EN61010-1: 2002

Housing material Polycrabonate, Auto extinguishable

to UL 94 V-0



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