

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

**TYPES: YWRUPxx, 11WRUPxx, 8WRUPxx (spco)
YWR2UPxx (dpc)**

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

TYPE	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	
YWRUP (Din rail SPCO)			3 x 400V	
YWR2UP (Din rail DPCO)			3x 415V	
			3 x 440V***	

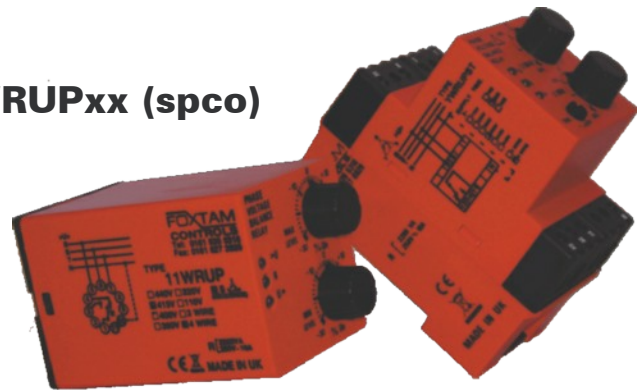
OPTION

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)

*** 110V & 440V only available as a 3 wire version. These voltages are available on request as an 11WRUP.N with a separate AC auxiliary supply.



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:	± 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:

Repeat accuracy:	+2% of set values
Max power consumption:	< 3VA
Insulation:	2.5KV 50Hz impulse

Relay outputs:

Output contacts:	SPCO 10Amps/250V AC1 DPCO 8Amps/250V AC1
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Max breaking capacity:

Max breaking capacity:	SPCO 4000VA DPCO 2000VA
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Mechanical life:

Mechanical life:	30 Million ops
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Electrical life:

Electrical life:	200K ops at max rated load
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General:

Operating temperature:	-10°C to +40°C
Storage temperature:	-10°C to +60°C
Max cable size:	4mm
CE marked:	Yes
In accordance with:	EN61000-6-1: 2007 EN61000-6-3: 2007 EN61010-1: 2002

Housing material

Housing material:	Thermo plastic ABS (DIN7728), auto extinguishable according to UL94V0
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