

PHASE FAILURE & SEQUENCE RELAYS

**TYPES: YWRP, 11WRP, 8WRP (spco)
YWR2P, 11WR2P (dpco)**

**PRODUCT
GROUP
D**

FEATURES

- Din rail or plug in
- Available SPCO or DPCO output
- Available 3 wire or 4 wire
- Self powered
- Transformer technology

DESCRIPTION & MODE OF OPERATION

Combined phase failure and sequence relays, available in either a din rail or 8/11 pin plug housing. The output is SPCO with an option of DPCO on either the din rail or 11 pin version. **Utilising transformer technology** the units are available in either 3 or 4 wire versions, the 4 wire version tripping on loss of the Neutral. On power up with all three phases present (plus the Neutral if applicable) and in the correct sequence the output relay will energise, the green and red LEDs also illuminate. On loss of a phase, (or Neutral 4 wire versions), drop in voltage below Umin levels, or incorrect phase sequencing the output relay/s after a fixed time delay of 0.5secs will drop out and the red LED will be extinguished. A green supply on LED only illuminated means that there is a supply to the unit but there is a supply fault or either a combination of; phase loss, under volts or sequence error. All terminal details and information along with the CE mark is clearly marked on the sides of the housing.

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

Tolerance: + 15%

System: 3 or 4 wire option

Frequency: 50/60Hz

Nominal Umin (fixed): 80% on all 3 phases

60% on 1 phase drop

Delay on tripping: 0.5sec fixed (wrong sequence)

50mSec (phase loss)

Max power consumption: <3VA

Insulation: 2.5KV 50Hz impulse

Relay outputs:

Output contacts: SPCO 10Amps/250V AC1

DPCO 8Amps/250V AC1

Mechanical life: 30 Million ops

Electrical life: 200K ops at max rated load

General:

Operating temperature: -20°C to +65°C

Storage temperature: -20°C to +65°C

Max cable size: 4mm

CE marked: Yes

In accordance with: EN61000-6-1: 2007

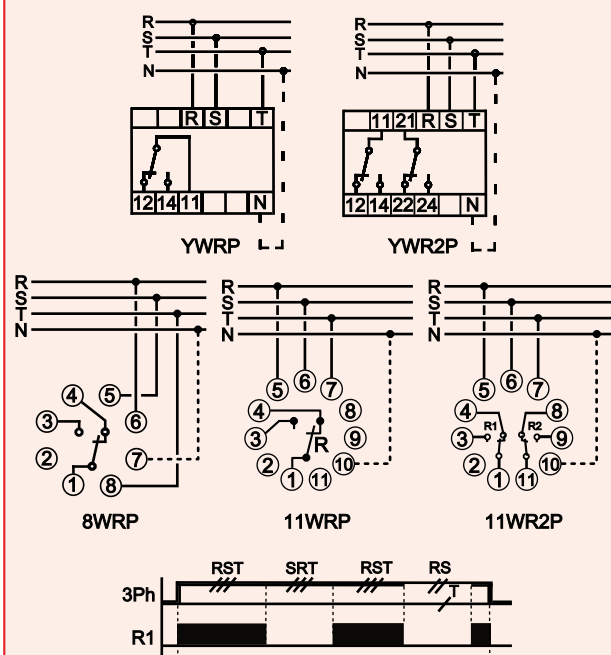
EN61000-6-3: 2007

EN61010-1: 2002

Housing material: Polycarbonate, Auto extinguishable
to UL 94 V-0



CONNECTIONS



ORDERING INFORMATION

TYPE	VOLTAGE	SYSTEM
YWRP(Din railSPCO)	3x110V	3W(3 wire)
8WRP(8 pinSPCO)	3x220V	4W(4 wire)
11WRP(11 pinSPCO)	3x380V	
YWR2P(Din railDPCO)	3x400V	
11WR2P(11 pinDPCO)	3x415V	
	3x440V*	
	SPECIAL**	

* 440V only possible as a 3 wire version

OPTION

On 3 wire variants as a no cost option a separate AC auxiliary supply can be specified. 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. 24VAC, 48VAC, 110VAC.

**Available on request special high voltage versions i.e 690V L-L. (Separate auxiliary supply required).