

# COMBINED PHASE FAILURE, SEQUENCE & THERMISTOR RELAY

**TYPE: YWRPTC4 (spco + 1no)**



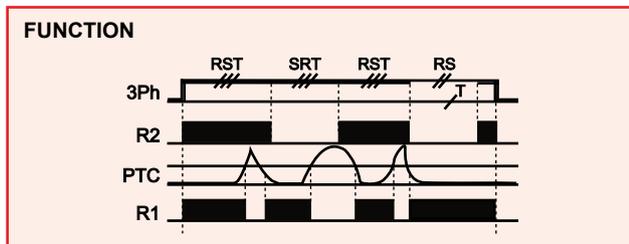
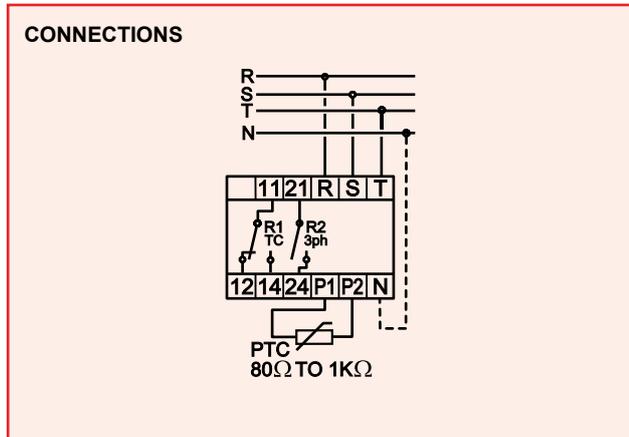
## FEATURES

- Din rail mounted
- Monitors loss of phase
- Monitors phase sequence
- Monitors up to 6 thermistors
- Klixon version available
- Separate outputs for phase & thermistor circuits
- Separate LED indication
- Available 3 or 4 wire
- Transformer technology
- Ideal lift industry product

## DESCRIPTION & MODE OF OPERATION

Din rail mounted combined phase failure, sequence thermistor relay (Klixon version also available). Available in either 3 or 4 wire and self powered, with separate output contacts and LED indication for phase faults and thermistor faults.

Both contacts energise when all is healthy, the phase relay R2 will de-energise when a phase sequence error is detected or a phase is lost (and in a 4 wire version also the Neutral). The thermistor circuit relay R1 will de-energise on detection of either a short circuit or overheat (resistance below 30 Ohms or above 3.3 KOhms). Both relays are slightly delayed (delay fixed) to avoid nuisance tripping. The LED indicators will diagnose the circuit problems, a healthy situation results in all the LEDs being illuminated.



## ORDERING INFORMATION

TYPE	KLIXON	VOLTAGE	SYSTEM
YWRPTC4	*T	3 x 110V	3W (3 wire)
		3 x 220V	4W (4 wire)
		3 x 380V	
		3 x 400V	
		3 x 415V	
		3 x 440V**	

\* Insert T if Klixon version is required  
\*\* Only available as 3 wire



## 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  
Nominal Umin (fixed): 80% on all 3 phases  
60% on 1 phase drop

Thermistor operating: 3.3 KOhm ±5%  
Thermistor reset: 1.8 KOhm ±10%  
Max cold resistance: 1500 Ohms  
Short circuit detection: 30 Ohms ±20%  
Max No. Of PTC sensors: 6  
Sensor voltage: 2.5V DC max  
Isolation: Via transformer & opto isolator  
Max power consumption: <6VA  
Insulation: 2.5KV 50Hz impulse

### Relay outputs:

Output contacts: SPCO + 1NO 8 Amps/250V AC1  
Delay phase sequence: 0.5sec (fixed)  
Delay phase loss: 50mSec (fixed)  
Delay thermistor fault: 0.5sec (fixed)  
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

### OPTION

On 3 wire variants as a not 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