

COMBINED PHASE FAILURE, SEQUENCE & THERMISTOR RELAY

TYPE: YWRPTC4 (spco + 1no)



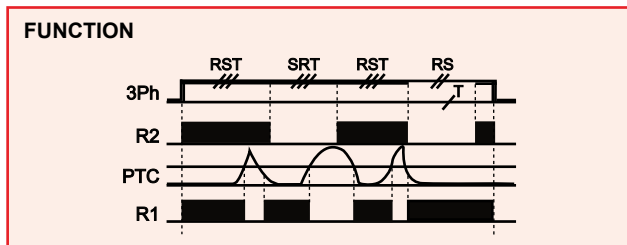
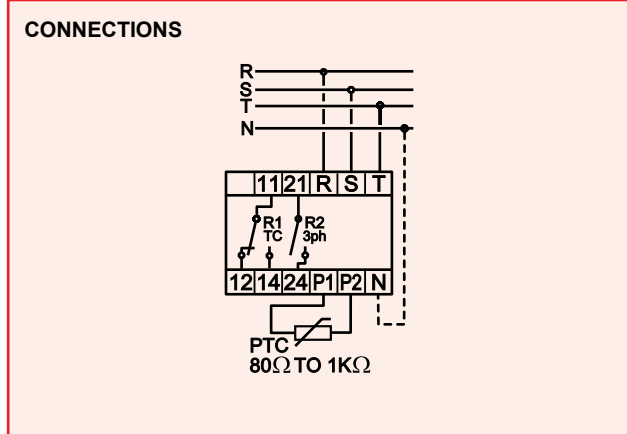
FEATURES

- 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
UKCA & 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 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.
24V AC, 48V AC, 110V AC