



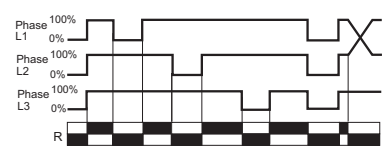
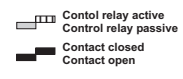
# TCP-SF

## overview

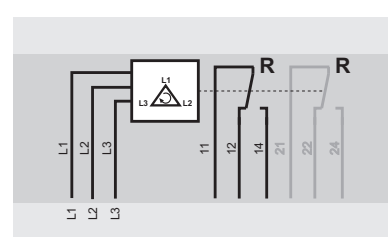
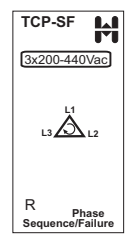


- ◆ detects phase failure and phase sequence
- ◆ measuring voltage without neutral
- ◆ does not detect phase failure with regenerated voltage present
- ◆ LED indicators for power supply, relay and reaction timer
- ◆ 22.5mm DIN rail mount housing

### Function



**Phase failure relay to monitor 3-wire, 3-phase systems for the failure of one or more phase and the correct phase rotation (L1, L2, L3)**  
 The TCP-SF detects if the phase sequence is correct and that no phase has failed. If this is the case, the output relay R energises and the yellow LED is illuminated.  
 At a loss of one phase the output relay R de-energises.  
 The relay energises again, when the failed phase/phases resume.  
 The control relay will not detect a phase failure with a regenerated voltage present on the failed phase. (Suitable for lift/elevator applications where the car must continue to the next stop and then not restart)



## specification

<b>supply voltage variation</b>	nominal voltage +/-10%		
<b>frequency range</b>	48 - 63 Hz		
<b>duty cycle</b>	100%		
<b>reset time</b>	< 25ms		
<b>output relay spec.</b>	EN 60947-5-1		
<b>relay type</b>	1	2	
le AC-15	120V~	2,5A	1,5A
le AC-15	240V~	2,5A	1,5A
le DC-13	24V=	2,5A	1,5A
<b>expected life time</b>	SPCO	DPCO	
mechanical	1 x 10 <sup>7</sup> resp. 1 x 10 <sup>7</sup> operations		
electrical	15 x 10 <sup>4</sup> resp. 8 x 10 <sup>4</sup> operations		
I <sub>the</sub> @+20°C, detached	10A	8A	
<b>screws</b>	Pozi driv 1, Slot 4mm		
<b>screw tightening torque</b>	0,4 Nm		
<b>operating conditions</b>	-20 to +60°C non condensing		

## ordering information

part no	supply	output	relay type	certification	housing types
TCP-SF	3x 200-440V~	2W	SPCO	-	B
TCP-SF2	3x 200-440V~	2W	DPCO	-	B