PFR300R

3 PHASE, 3 WIRE PHASE FAILURE AND ROTATION RELAY

The PFR300R is a compact, DIN rail mounted unit designed to monitor and remotely signal the state of a 380/400/415 VAC, 3 phase power supply.

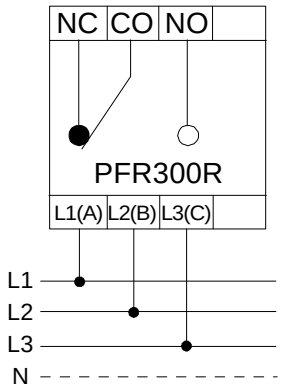
The unit comprises a solid state circuit which measures the voltage and phase angle of the 3 phase supply, and compares it with a user set trip level. This circuit feeds an electro-mechanical relay, the SPCO volt-free contacts of which may be used to remotely signal other equipment (e.g. load contactors).

The relay energises when the correct voltage and phase rotation is applied. If any of the phase to phase voltages falls below front facia 'Set Volts' level, or if the incorrect phase sequence is connected, the relay de-energises and a red 'tripped' LED lights on the front facia. The PFR300R will automatically reset when the fault is corrected, energising its relay and turning off the LED indicator.

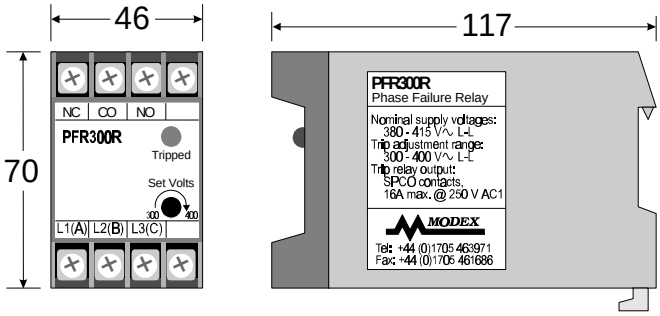
Product Specification

Power supply/input:	
Operating voltage range (ph - ph)	300 – 415 V AC rms (+/– 6%) 3 phase, 3 wire, 45 – 65Hz
Power consumption	<= 4 W
Relay output:	
Contact type	SPCO, volt free
Power rating	4000 VA, resistive load (16 Amps @ 250 V AC)
Maximum breaking voltage	440 V AC
Trip point:	
Trip point adjustment range	300 – 400 V AC rms @ 50Hz (+/– 5% at rated frequency)
Trip delay	< 0.5 sec.
Restoration (short cycle) delay	2.5 sec, +/– 0.5 sec.
Physical:	
Operating temperature range	– 10°C to +55°C
Dimensions (H x W x D)	70 x 46 x 117 mm
Weight	approx. 155 g

Connection



Dimensions (mm)



When ordering, please specify:–

a) Product type number: PFR300

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