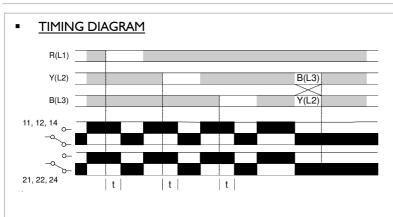
Type: 45 PSR Phase Sequence Relay

The unit is designed to monitor a three phase, 3 or 4 wire supply for incorrect phase sequence or phase loss. When power is applied, the relay energises and the green "correct" LED illuminates providing all the phases are present and rotating in the correct sequence. If the phase sequence is incorrect when power is applied, the relay remains de-energised and the red "incorrect" LED illuminates.



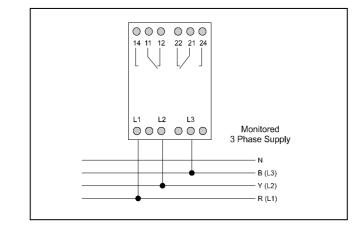
INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY. Connect the supply as shown in diagram below. Apply power and the green **'correct'** LED should illuminate and the relay should energise. If this does not occur and instead the red **'incorrect'** LED illuminates, disconnect the supply and reverse any two of the phase inputs. If after re-applying the supply, the red LED still remains illuminated, check that all phases are connected, and that the voltage levels are correct.

Using the 45PSR to detect phase loss: The 45PSR can also be used to monitor phase loss on a supply providing the re-generated voltage is less than 70% of the nominal supply voltage. Where there is a possibility of a higher re-generated voltage, the 45PUVR or 45095 relays should be used.

Note: During phase loss, both LED's may be extinguished.

<u>CONNECTION DIAGRAM</u>





TECHNICAL SPECIFICATION

Supply/Monitored Voltage Un: (phase to phase) Supply Variation: Isolation: Overload: Power Consumption:	220, 380, 400V AC 45 - 65Hz (Galvanic isolation by transformer) 75 - 125% of Un Over voltage cat. III (IEC 664) 1.5 x Un continuous 2 x Un for 3 seconds 3VA @ Un (red and yellow phases)
Reaction Time (t): Ambient Temperature:	0.1VA @ Un (blue phase only) ≈ 200mS -20 to +60°C
Relative Humidity: Contact Rating:	+95% DPDT ACI 250V AC 8A (2000VA) ACI5 250V AC 3A DCI 25V DC 8A (200W)
Electrical Life: Housing: Weight: Mounting Option:	Minimum 150,000 ops at rated load Orange flame retardant UL94 VO 300g approx. Onto 35mm symmetric DIN rail to BS5584:1978 (EN50 002, DIN 46277-3)
Terminal Conductor Size:	Max 2 x 1.5mm ² stranded (terminated) Max 2 x 2.5mm ² solid
Approvals:	Conforms to: UL, CUL, CSA, IEC. <i>(</i> Compliant

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