

Type: 45081

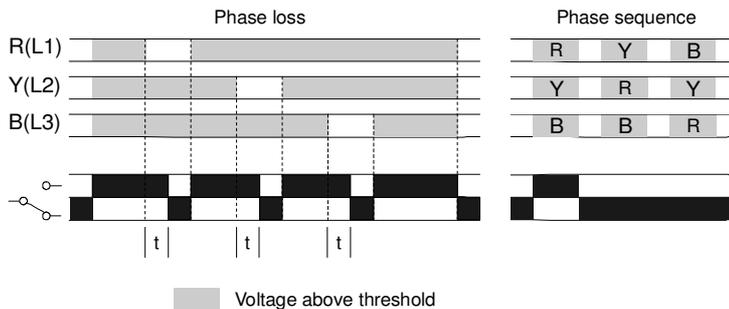
3-Phase Sequence / Failure Relay

- ❑ Detects incorrect phase sequence / failure (closed circuit)
- ❑ Monitors own 3-phase supply
- ❑ Adjustment for 'nominal' voltage setting
- ❑ Threshold voltage 70% of phase voltage
- ❑ DIN rail housing
- ❑ 1 x SPDT relay output
- ❑ LED indication for supply and relay status



Dims:
H. 78mm
W. 45mm
L. 99mm

• TIMING DIAGRAM



• INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as shown in the diagram below.
- Set the 'nominal voltage' adjustment to minimum.
- Apply power (green 'supply on' and red 'relay' LED's will illuminate, the relay will energise and contacts 15 and 18 will close).

To set the unit:

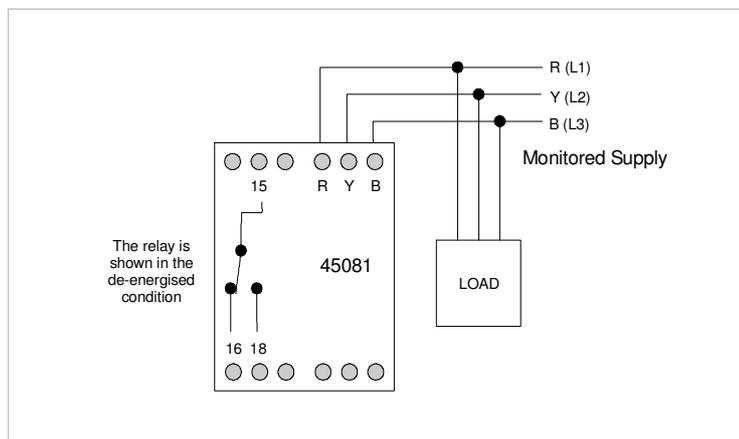
- Set the 'nominal voltage' adjustment to the voltage of the supply being monitored ('relay' LED illuminated and relay energised)

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

Troubleshooting.

- If the unit fails to operate as described, check the wiring and voltages present on the supply terminals.
- If the unit still fails to operate, reverse any two of the phase inputs.

• CONNECTION DIAGRAM



• TECHNICAL SPECIFICATION

Supply/Monitored voltage Un:	220, 400, 480, 600V AC 45 - 65Hz (Galvanic isolation by transformer)
(phase to phase)	
Supply variation:	85 - 115% of Un
Isolation:	Over voltage cat. III (IEC 664)
Rated impulse withstand voltage:	4kV (1.2/50μS) - up to 480V 6kV (1.2/50μS) - up to 600V
Power consumption:	≈ 3.9 VA (red and blue phases) (@ 115% of Un) ≈ 0.2 VA (yellow phase)

Voltage setting:	±15 % of Un
Measuring ranges:	187 - 253V AC (Un = 220V) 340 - 460V AC (Un = 400V) 408 - 552V AC (Un = 480V) 510 - 690V AC (Un = 600V)
Voltage threshold:	70% of phase voltage
Accuracy:	±10%
Hysteresis:	< 10%
Time delay (t):	< 30mS On delay = < 500mS

Ambient temp:	-20 to +60°C
Relative humidity:	+95%

Contact rating:	SPDT AC I 250V AC 10A (2500VA) AC 15 250V AC 6A DC I 25V DC 10A (250W)
Electrical life:	≥ 150,000 ops at rated load

Housing:	Orange flame retardant UL94 VO
Weight:	≈ 284g (< 480V), ≈ 338g (600V)
Mounting option:	On to 35mm symmetric DIN rail to BS5584:1978 (EN50 002, DIN 46277-3)

Approvals:	Conforms to UL, CUL, CSA & IEC CE Compliant
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• MOUNTING DETAILS

