

Voltage Presence Relay v2 VPR271

DESCRIPTION

The VPR271, Voltage Presence Relay provides an economical and compact solution to monitoring of 3-phase voltage up to 800V phase to phase (500V phase/neutral) with two relay outputs or external LED and relay indicating;

- Loss of three phases
- Loss of one phase.

The 3-phase voltage plus neutral can be directly connected to the VPR271 as long as the maximum phase-to-phase voltage does not exceed 800V. To use the VPR271 where there are momentary or surge voltages above maximum input voltage a surge filter like the APCS SPL0929 or a step down transformer (PT) must be used. Neutral must be connected for proper operation. The VPR271 is signal powered from the incoming AC-voltage.



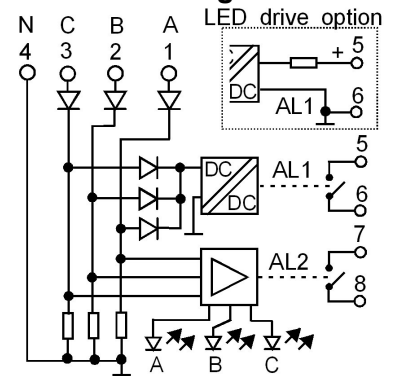
Function

- With any phase present the internal step down DC/DC converter will energise AL1 a relay contact or an external LED drive.
- A trip circuit providing LED indication of phase presence monitors each phase.
- AL2 will de-energise if any one of the three phases fail.
- If all three phases are present then both AL1 and AL2 are energised.

General Specifications

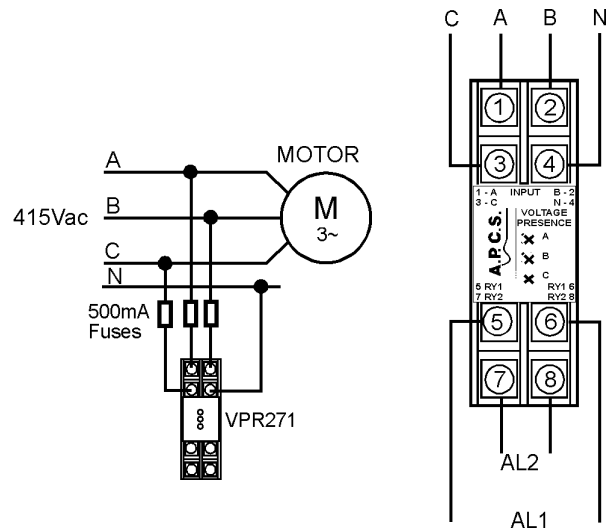
Size:	23.5W x 71.5H x 109D (mm).
Mounting:	Clip for 35mm DIN-Rail.
Housing material:	ABS.
Connection:	Screw terminals.
Protection class:	IP40 (IP65 Enclosure opt.)
Weight:	0.15 kg.
Input:	200 to 800 phase to phase voltage 40 to 1000Hz.
Trip threshold	<100V phase to neutral
Relay contacts:	8A/250Vac.
External LED drive:	24V / 20mA
Repeatability:	5%.
Dead-band:	10% of range.
Response time:	0.5 Sec.
Input to output isolation:	2.5kV rms.
Electromagnetic compatibility:	Complies with AS/NZS 4251.1 (EN 50081.1)

Block Diagram



Ordering Information VPR271 - X X 10

Input:	_____
1 =	200-800Vac phase/phase (100-500V phase to neutral)
2 =	95-345Vac phase/phase (55-200V phase to neutral)
Output:	_____
1 =	AL1 = N/O contact (closed when energised). AL2 = N/O contact (closed when energised).
2 =	AL1 = 24V/20mA for external LED. AL2 = N/O contact (closed when energised).



External 500mA fuses are recommended.

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