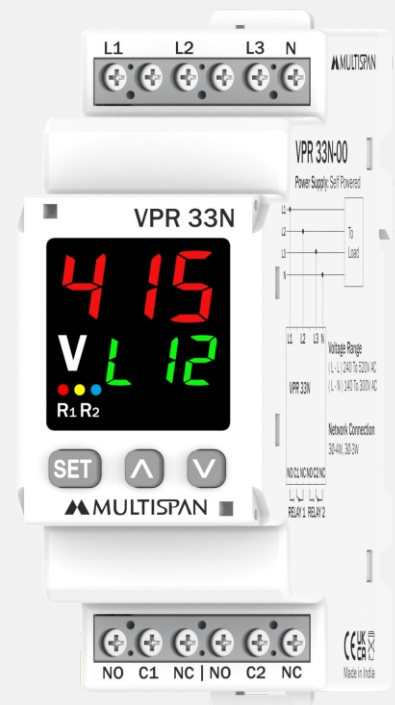




VOLTAGE PROTECTION RELAY

VPR-33N

APPLICATIONS

DG Set Panels

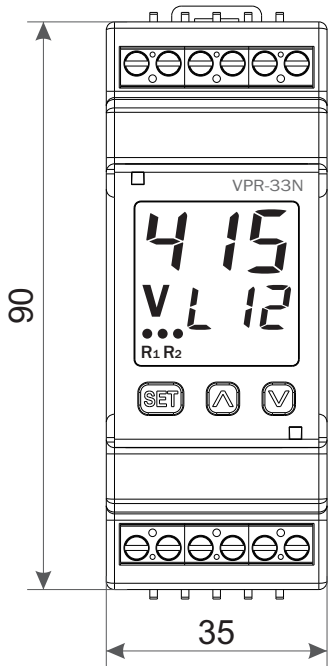
Motor Control Center Panels

Control Panels

Distribution Panels

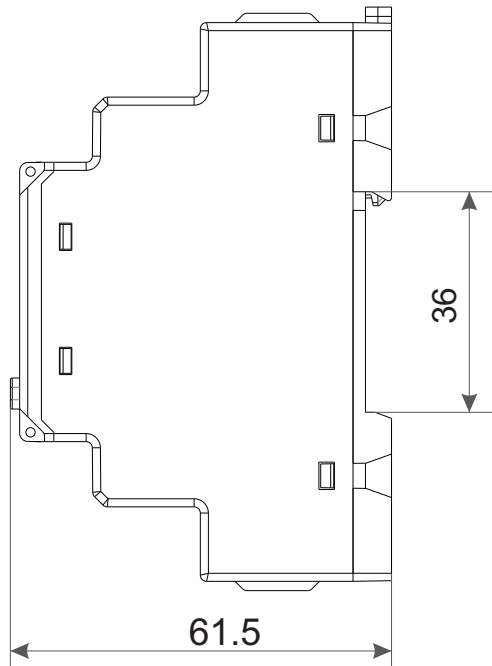
Mechanical Dimensions

Body Dimensions



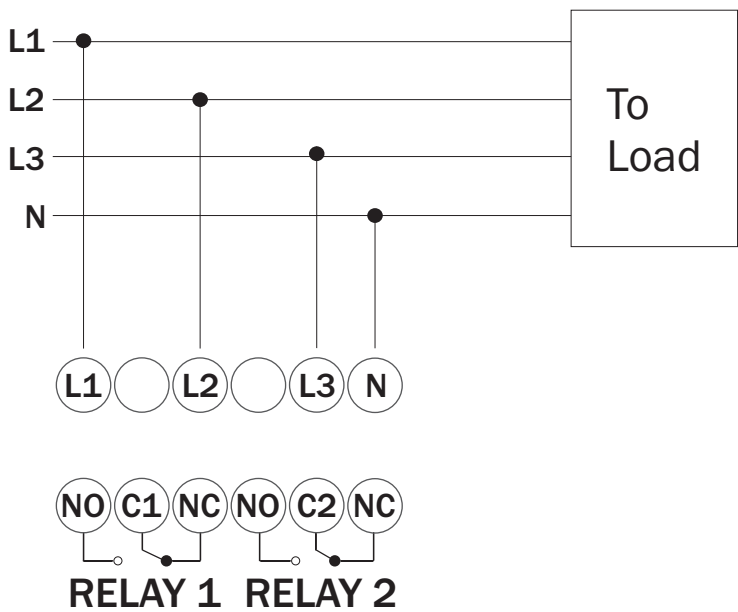
FRONT VIEW

All dimensions are in mm



RIGHT SIDE VIEW

Connection Diagram



TECHNICAL DATA

Input Voltage	240 to 520 V AC (L-L) 3Ø-3W 140 to 300 V AC (L-N) 3Ø-4W
Output	1 ST Relay 1 C/O, 5A, 230 V AC (Resistive load) 2 ND Relay 1 C/O, 5A, 230V AC, 24V DC
Accuracy	Class 1.0

Features

- Auto/Manual (Reset Option)
- Last 5 Fault History Indicate
Time parameter : Power on delay
Trip delay
Recovery time (Auto reset)

Protection Available

- Over Voltage
- Under Voltage
- Over Frequency
- Under Frequency
- Asymmetry
- Phase Loss
- Phase Sequence
- Neutral Loss

Input

Direct Voltage	240 To 520V (L-L) 140 TO 300V (L-N)
Resolution	1 Volt
Frequency	45.0 TO 65.0 Hz

Display LED & Keys

Display	0.4" Red LED, 3 digit UPPER 0.28" Red LED, 3 digit LOWER
Key	SET, RESET, INC, DEC

Meter type

3Ø-3W/3Ø-4W

Auxiliary Power Supply

Power Supply	Self Power
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Output

Relay

1ST Relay with 1 C/O,5A
230 V AC On Resistive Load
2ND Relay 1 C/O, 5A,
230V AC, 24V DC

Trip Setting

Under Voltage	240-520 V AC (3Ø-3W) 140-300 V AC (3Ø-4W)
Over Voltage	240-520 V AC (3Ø-3W) 140-300 V AC (3Ø-4W)
Under Frequency & Over Frequency	45.0 TO 65.0 Hz
Phase Asymmetry	2 to 30%
Hysteresis	0-99V

Time Parameter

Power ON Delay Time	0.0 to 99.9 Seconds
Trip Delay Time	0.0 to 999 Seconds
Recovery Time	0.0 to 99.9 Seconds

Accuracy

Class 1.0 (Standard)

Environmental Characteristics

Operating Temperature	0 to 55 °C
Storage Temperature	0 to 70 °C
Relative Humidity	95% RH Non-condensing

Mechanical Characteristics

Mounting Type	Din Rail Mount
Dimension (HxWxD) mm	90 x 35 x 61.5
Material	Body Polycarbonate (PC)
Terminal Screw Size	M3
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	28-12
Weight (Approx) gms	Unpacked : 200 Packed : 255

Compliance

Applicable EMI / EMC Standards		
Standard : IEC 61326 - 1		
Category		Standards Compliance
Surge Immunity	IEC 61000 - 4 - 5	+ / - 2kV Common Mode, (Line to Ground) + / - 1kV Differential Mode, (Line to Line)
Power Frequency Magnetic Field Test	IEC 61000 - 4 - 8	Range:1 to 100 A/m
Conducted Susceptibility	IEC 61000 - 4 - 6	Level II (3V / m)
Voltage Dips and Interruptions	IEC 61000 - 4 - 11	Dips : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) Interruptions : 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)
Radiated Emission	CISPR - 11	
Electrical Fast Transient	IEC 61000 - 4 - 4	Level III (2kV)
Conducted Emission	CISPR - 11	