



# VOLTAGE PROTECTION RELAY

VPR-33

## APPLICATIONS

DG Set Panels

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Motor Control Center Panels

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Control Panels

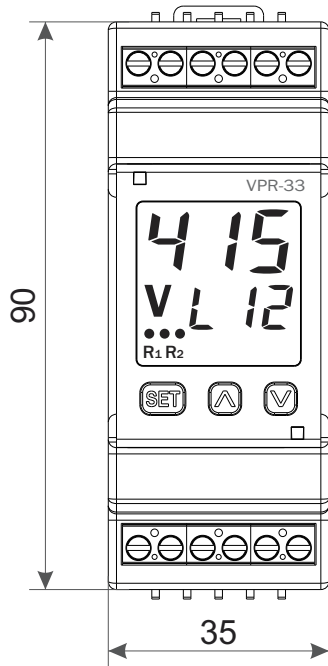
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Distribution Panels

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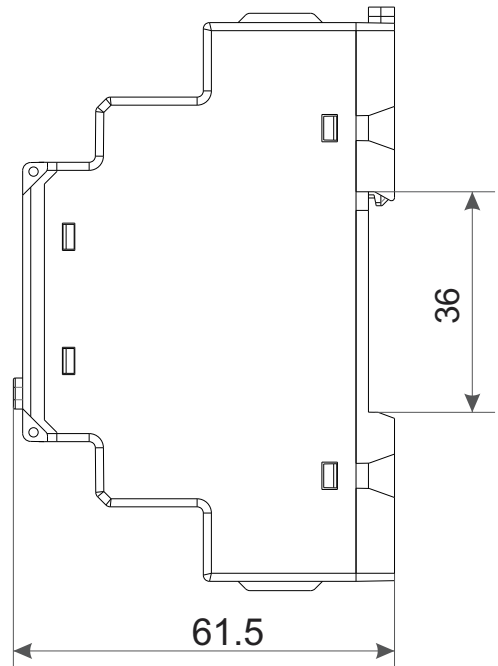
# Mechanical Dimensions

## Body Dimensions



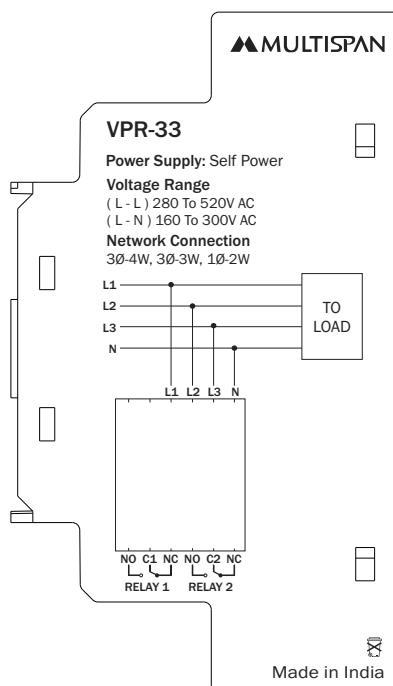
**FRONT VIEW**

All dimensions are in mm




**RIGHT SIDE VIEW**

# Connection Diagram



# TECHNICAL DATA

<b>Input Voltage</b>	260 to 520 V AC (L-L) 3Ø-3W 160 to 300 V AC (L-N) 3Ø-4W
<b>Output</b>	1 <sup>ST</sup> Relay 1 C/O, 5A, 230 V AC (Resistive load) 2 <sup>ND</sup> Relay 1 C/O, 5A, 230V AC, 24V DC
<b>Accuracy</b>	Class 1.0
<b>Certificate</b>	

## Features

- Auto/Manual (Reset Option)
- Power Fail Fault Memory  
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

<b>Direct Voltage</b>	260 To 520V (L-L) 160 TO 300V (L-N)
<b>Resolution</b>	1 Volt
<b>Frequency</b>	45.0 TO 65.0 Hz

## Display LED & Keys

<b>Display</b>	0.4" Red LED, 3 digit UPPER 0.28" Red LED, 3 digit LOWER
<b>Key</b>	SET, RESET, INC, DEC
<b>LED Indication</b>	LINE-1 , LINE-2 , LINE-3, RELAY 1, RELAY 2

## Meter type

3Ø-3W/3Ø-4W

## Output

### Relay

1<sup>ST</sup> Relay with 1 C/O,5A  
230 V AC On Resistive Load  
2<sup>nd</sup> Relay 1 C/O, 5A, 230V AC

## Trip Setting

<b>Under Voltage</b>	260-520 V AC (3Ø-3W), 160-300 V AC (3Ø-4W)
<b>Over Voltage</b>	260-520 V AC (3Ø-3W), 160-300 V AC (3Ø-4W)
<b>Under Frequency &amp; Over Frequency</b>	45.0 TO 65.0 Hz
<b>Phase Asymmetry</b>	10-100V
<b>Hysteresis</b>	0-99V

## Time Parameter

<b>Power ON Delay Time</b>	0.0 to 99.9 Seconds
<b>Trip Delay Time</b>	0.0 to 999 Seconds
<b>Recovery Time</b>	0.0 to 99.9 Seconds

## Accuracy

Class 1.0 ( Standard )

## Auxiliary Power Supply

<b>Power Supply</b>	Self Power
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### 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