



VOLTAGE PROTECTION RELAY

VR-3K

APPLICATIONS

DG Set Panels

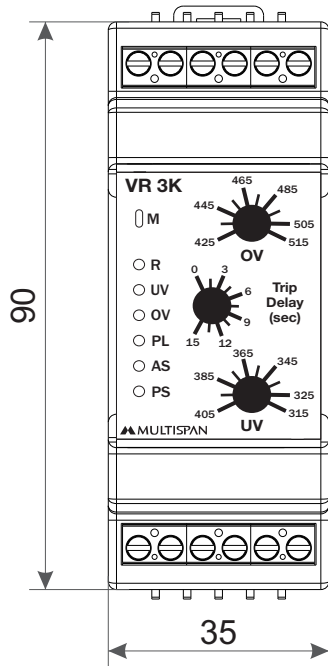
Motor Control Center Panels

Control Panels

Distribution Panels

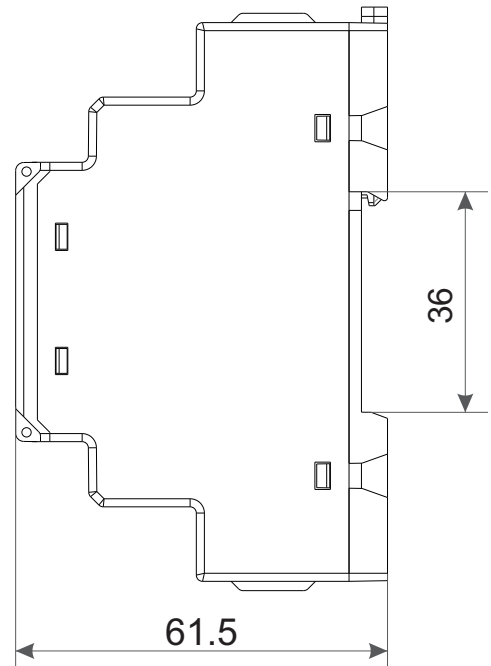
Mechanical Dimensions

Body Dimensions



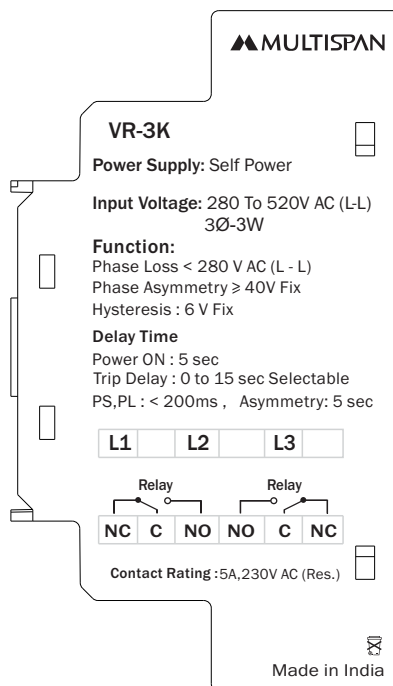
FRONT VIEW

All dimensions are in mm



RIGHT SIDE VIEW

Connection Diagram



TECHNICAL DATA

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Input Voltage | 85 to 550 V AC (L-L) 3Ø-3W 50 to 330 V AC (L-N) 3Ø-4W / 1Ø-2W |
| 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 |
| Power Supply | 100V To 270V AC, 50/60Hz, 3VA @ 230V AC Max |
| Certificate | CE |

Features

- Auto/Manual/ZVR (Zero Value Reset) Reset Option
- Power Fail Fault Memory
Time parameter : Power on delay
Trip delay
Recovery time (Auto reset / ZVR)

Protection Available

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

Input

| | |
|-----------------------|--------------------------------------|
| Direct Voltage | 85 To 550V (L-L) 50 TO 330V (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 |
| LED Indication | LINE-1 , LINE-2 , LINE-3, RELAY 1, RELAY 2 |

Meter type

3Ø-3W/3Ø-4W/1Ø-2W

Output

Relay

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

Trip Setting

| | |
|---------------------------------------------|---------------------------------------------------|
| Under Voltage | 85-550 V AC (3Ø-3W), 50-330 V AC (3Ø-4W/1Ø-2W) |
| Over Voltage | 85-550 V AC (3Ø-3W), 50-330 V AC (3Ø-4W/1Ø-2W) |
| Under Frequency & Over Frequency | 45.0 TO 65.0 Hz |
| Phase Asymmetry | 10-100V |

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)

Auxiliary Power Supply

| | |
|---------------------|-------------------------|
| Power Supply | 100V To 270V AC,50/60Hz |
| Burden | 3VA @ 230V AC Max |

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 |