

VOLTAGE PROTECTION RELAY

VPR-22U

APPLICATIONS

Electrical LV panels

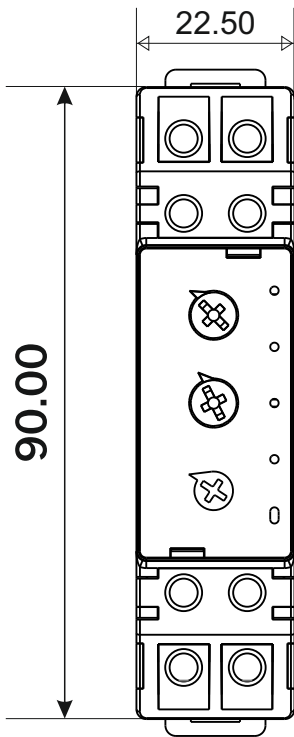
Distribution boxes

Automation panels

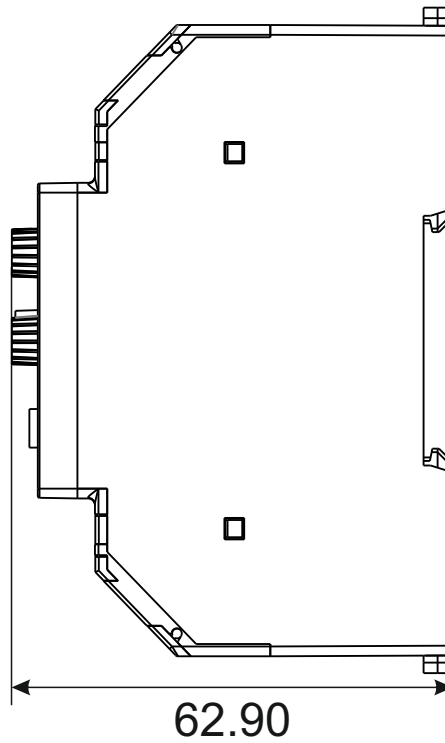
Special purpose machine

Air conditioning - HVAC

Mechanical Dimensions



FRONT VIEW



RIGHT SIDE VIEW

All dimensions are in mm

Connection Diagram

VPR 22U

L1	L2	Power Supply : Self Powered
	L3	
VPR		Input Voltage : 280 to 520V AC (L-L) 3Ø - 3W
	NC	Contact Rating : 5A, 230V AC (Res.)
C	NO	

LED Indication:
 OFF : Healthy
 PA/PL Blinking : Phase Asymmetry
 PA/PL On : Phase Loss

Function :
 Phase Asymmetry ≥ 40V Fix
 Phase Loss : < 280V AC(L-L)
 Hysteresis : 6V Fix

Delay Time :
 Power ON : 5 Sec.
 Trip Delay : 0.2 To 10 Sec. Selectable
 Asymmetry: 5 Sec.
 PL,PS : 500 mSec.

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 Made in India

TECHNICAL DATA

Mounting	DIN Rail Mounting
Output	1Relay 1 C/O 5A 230V AC (Res.)
Supply Voltage	280 to 520V AC, 50/60 Hz, 3Ø3W

FEATURES
<ul style="list-style-type: none"> • Auto Reset
Protection Available
<ul style="list-style-type: none"> • Under Voltage • Over Voltage • Phase Sequence • Phase Loss • Phase Asymmetry

LED Indication
<ul style="list-style-type: none"> • Under Voltage LED
<ul style="list-style-type: none"> • Over Voltage LED
<ul style="list-style-type: none"> • Phase Sequence LED
<ul style="list-style-type: none"> • Phase Loss : PL/PS LED ON
<ul style="list-style-type: none"> • Phase Asymmetry : PL/PS LED Blinking

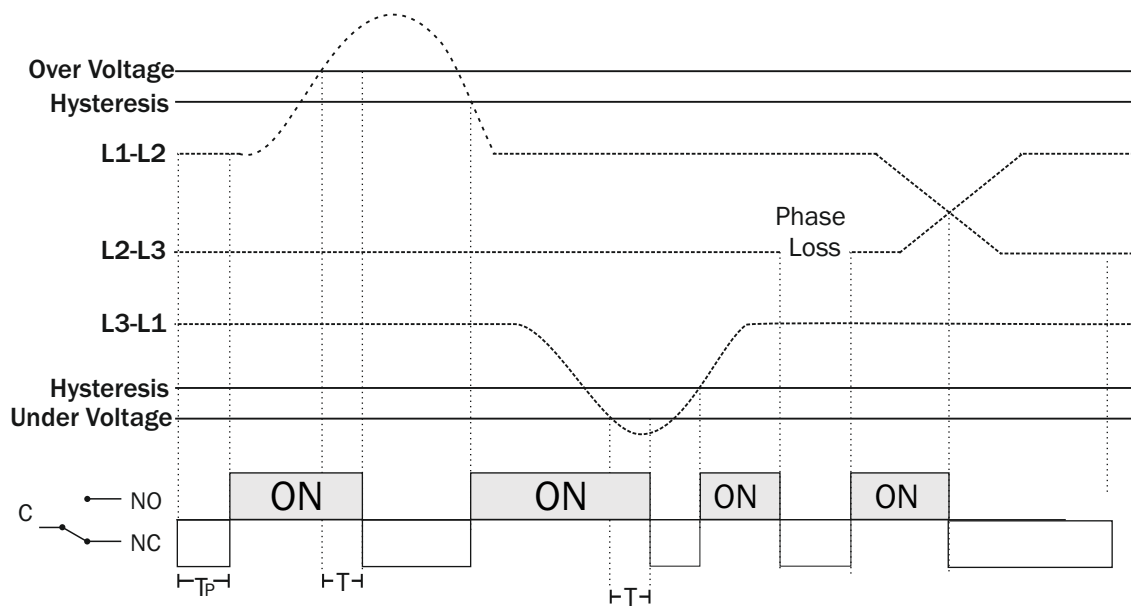
SUPPLY VOLTAGE	
Input Voltage	280 to 520V AC,3Ø3W
Burden	7VA @ 415V AC Max

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

TRIPPING PARAMETER	
Rated Voltage	415V AC (L-L)
<ul style="list-style-type: none"> • Under Voltage 	315 to 405 (L-L)
<ul style="list-style-type: none"> • Over Voltage 	425 to 515 (L-L)
<ul style="list-style-type: none"> • Phase Sequence 	500ms
<ul style="list-style-type: none"> • Phase Loss 	500ms
<ul style="list-style-type: none"> • Phase Asymmetry 	40V Fix

Dimensions	
Mounting	Din Rail Mounting
Bezel (HXW)	90 x 22.5 mm
Depth of Installation	62.90 mm

CONTROL FUNCTION



Phase Loss < 280V AC (L-L)

Phase Asymmetry 40V AC (L-L)

Hysteresis 6 V

TP = Power ON Delay (5 sec)

T = Trip Delay (0.2 to 10 sec)