



Data Sheet

RISH RELAY UVR

Under voltage protection relay



Measure



Control



Record



Analyze



Optimize

Applications

- Motor protection
- Server rooms
- Control system
- Air Conditioning Systems

Product Features

- Compact size 17.5 mm
- True RMS measurement
- Under voltage protection
- Fixed nominal voltage, Trip point.
- Self powered
- 1CO relay configuration
- LED indications with multiple states for easy diagnosis
- Restart/Power-On Delay



Parameter	Value
Nominal AC Voltage (Vn) (Fixed)	3P 4W : 415 VLL /240 VLN 400 VLL /230 VLN 380 VLL /220 VLN
	1P 2W : 240 VLN / 230VLN /220 VLN
UnderVoltage Trip point	75% (Fixed) of Nominal Value
Hysteresis value	2% (Fixed) of Nominal Value
Restart / Power On Delay	5-15 Minutes (Variable)

Power On Delay: Delay time starts after powering on the device,once healthy voltage is detected.

Restart Delay: Delay time after detection of healthy voltage once UV fault condition is removed.



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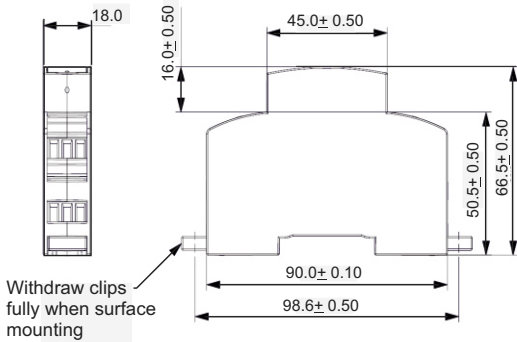


Optimize

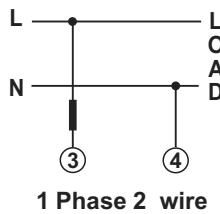
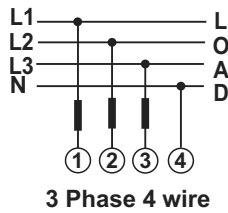
Under Voltage Protection Relay

RISH Relay UVR

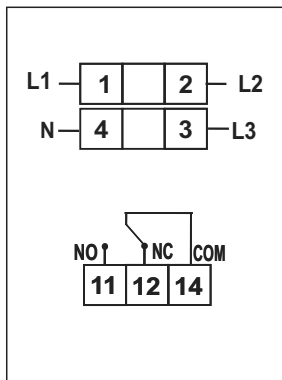
Dimensions Details:



Electrical Connection:



Terminal Details:



Note- Relay Contacts shown are in power off condition

Wiring Guidelines :

Input Wire Size : 1 to 2.5 Sq.mm
Voltage Tightning Torque: 0.4Nm

Technical Specifications:

Input Voltage

Nominal Input Voltage (AC RMS) 3P4W : 415 VLL / 400 VLL / 380 VLL
1P2W: 240 VLN /230 VLN /220 VLN

Max Continuous Input Voltage 127% of nominal value

Nominal Frequency 50 / 60 Hz

Input Voltage Burden for supply(B) phase @ Nominal Voltage & Frequency < 16 VA

Operating Measuring Ranges

Voltage Range 70...125% of nominal value

Operating reference condition

Reference Condition 23°C +/- 2°C

Input waveform Sinusoidal (distortion factor 0.005)

Input Frequency 48-63 Hz ± 2%

Accuracy

Accuracy ± 3 % of Nominal Value

Restart/Power On Delay 5-15 Minutes

Restart/Power On Delay Accuracy ± 0.8 Sec

Response Time Less than 200 msec

Applicable Standards

Safety IEC 61010-1-2010

IP for water & dust IEC60529 (IP 20)

Pollution degree 2

Installation category CAT III

High Voltage Test 2.2 kV AC, 50Hz for 1 minute between all Electrical circuits.

Environmental

Operating temperature -10 to +55°C

Storage temperature -25 to +70°C

Relative humidity 0...90% non condensing

Shock(as per IEC 60068-2) 30gn (300 m/s²), duration 18ms

Vibration 10...55 Hz, 0.15mm amplitude

Relay Contacts

Types of output 1CO

Contact Ratings (Res. Load) 5A/250VAC/30VDC (resistive load)

Mechanical Endurance 1x10⁷ OPS

Electrical Endurance 1x10⁵ OPS

Mechanical Attributes

Weight 80 gm Approx

Length 98.6± 0.5 Cm

Height 66.5 ± 0.5 Cm

Width 18 ± 0.5 Cm

LED Indication	Continuous ON	Blinking	OFF
P-ON	Power ON	Restart Delay/Power-On	Power OFF
RLY	Healthy Condition	-----	Under Voltage Condition

Rishabh Instruments always tries for Improvement and therefore product specifications are subject to change without notice



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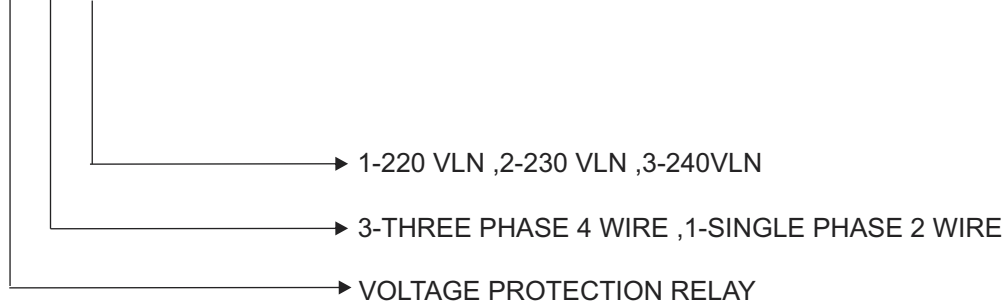
Record



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Ordering Information

UV10 - V - X - X - X - 1 - 1 - 0000000



Order code example: UV10-V321110000000

V: Voltage protection relay

3: 3 Phase 4 Wire

2: Nominal Value is 230VLN/400VLL

X: Frequency 50Hz/60Hz

1: Normally Energized(Relay is normally energized(ON) and become de-energized(OFF) upon fault

1: Number of relay is 1



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