



DATASHEET

Issue 1



- Multifunction Meters
- Transducers & Isolators
- Temperature Controllers
- Converters & Recorders
- Digital Panel Meters
- Current Transformers
- kWh Energy Meters
- Analogue Panel Meters
- Shunts
- Digital Bargraphs
- Digital Multimeters
- Protection Relays
- Synchroscope Series
- Rotary Switches
- Power Supplies
- Test & Measurement



UVR UNDER VOLTAGE PROTECTION RELAY

SUBJECT TO CHANGE WITHOUT NOTICE
This datasheet superseded all previous versions – please keep for future reference

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

UVR Under Voltage Protection Relay



Application

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

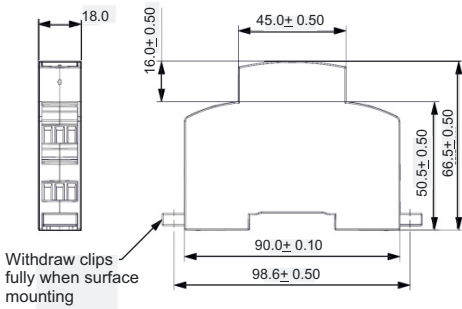
The under voltage protection relay protects system from the faults occurring on voltage line. Relay protects against under voltage faults. Front adjustment knob is provided for easy selection of time delay for power ON or restart time. Selection offers flexibility to user. Under voltage fault is auto resetting. The RLY LED indicate fault that helps for diagnosis purpose. Potential free relay contacts can be used for connection / disconnection of load or trigger alarm for annunciation purpose. Relay has fail safe operation. Application in Motor protection, conveyor system and for process industry etc.

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)

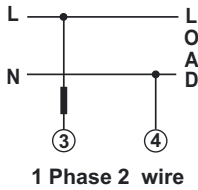
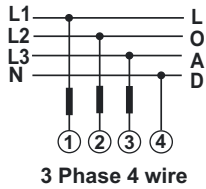
Power On Delay: Delay time starts after powering on the device,once healthy voltage is detected.

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

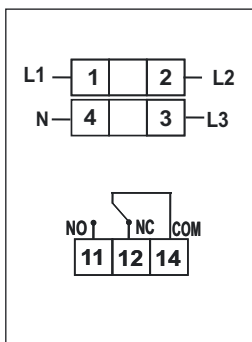
Dimensions Details



Electrical Connections



Terminal Details



Note- Relay Contacts shown are in power off condition

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/s ²), 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	1x10 ⁷ OPS
Electrical Endurance	1x10 ⁵ OPS
Mechanical Attributes	
Weight	80 gm Approx
Length	98.6± 0.5 Cm
Height	66.5 ± 0.5 Cm
Width	18 ± 0.5 Cm

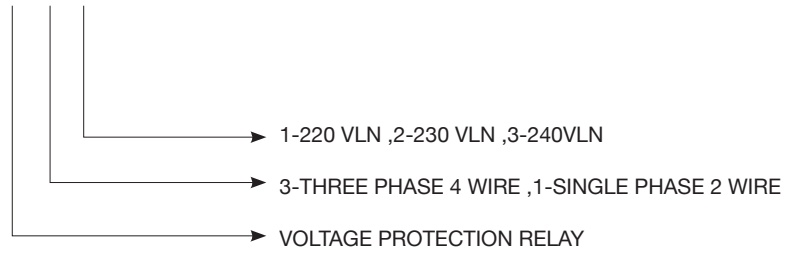
LED Indication	Continuous ON	Blinking	OFF
P-ON	Power ON	Restart Delay/Power-On	Power OFF
RLY	Healthy Condition	-----	Under Voltage Condition

Wiring Guidelines

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

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

Contact



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