

TECHNICAL DATA SHEET FOR D1 VCR1



This unit is used where under / over voltage protection of single phase system supply is required.

FUNCTIONING

D1 VCR1 provides continuous surveillance of the monitored circuit. When the measured voltage is below the specified under voltage cut off value or above the specified over voltage cut off value, the output relay contact changes. Under and over voltage settings are site selectable & to be set by using front pots.

The unit is having auto reset mode.

When monitored voltage is normalized again contact changeovers to healthy condition.

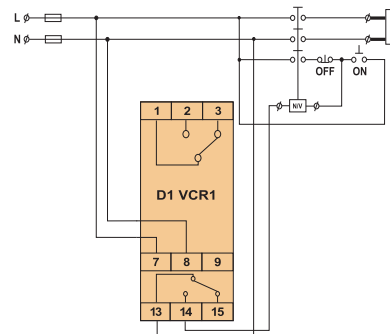
TECHNICAL SPECIFICATIONS OF UNDER / OVER VOLTAGE RELAY

1. **System Supply**
110/220/230/240 VAC,
+20%, 25%
2. **Aux. Supply** : Not applicable
3. **Frequency** : 50/60 Hz $\pm 3\%$
4. **Output Relay Contact** : 2 CO
5. **Output Contact Rating** : 5A, 240 VAC
[Resistive]
6. **UV Trip Setting** : 75 % to 95 % of system supply
7. **OV Trip Setting**: 105 % to 120 % of System supply
8. **Setting accuracy**: $\pm 2\%$ of set value.
9. **Trip Time Delay** : 2-5 sec.(FIXED) (UV/OV)
10. **Reset ting**: Auto reset
11. **UV / OV Reset Gap** : 3% ($\pm 1\%$) of sys.supply.
12. **Indication** :
POWER ON (Green) : Power On
UV (Red) : Under Voltage Trip
OV (Red) : Over Voltage Trip
13. **Enclosure** : ABS
14. **Dimensions** : (mm)
Overall : 76 X 30.5 X 117.5
Mounting : 68 center to center
15. **Operating Conditions** :
Temperature -5°C to $+60^{\circ}\text{C}$
Humidity upto 95% R.H.
16. **Weight** : 180 gms.
17. **Mounting** : Din Rail or Panel Mounted.

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ELECTRICAL CONNECTIONS IN POWER AND CONTROL WIRING

Figure 1



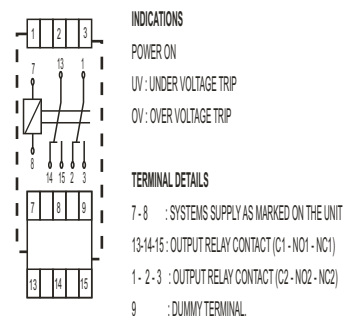
NOTE : RELAY CONTACT SHOWN FOR UNIT IN HEALTHY (ENERGISED) CONDITION.

Notes:

Under / Over voltage sensing to D1 VCR1 is taken from system supply points given at terminal 7 & 8.

CONNECTIONS DIAGRAM

Figure 3



NOTES:

- SYSTEM SUPPLY TO BE CONNECTED AS MENTIONED ON THE UNIT.
- RELAY CONTACTS SHOWN FOR UNIT IN HEALTHY (ENERGISED) CONDITION.
- UNIT WILL REMAIN IN TRIPPED CONDITION IF SYSTEM VOLTAGE IS BELOW UV SETTING OR ABOVE OV SETTING DURING POWER ON.