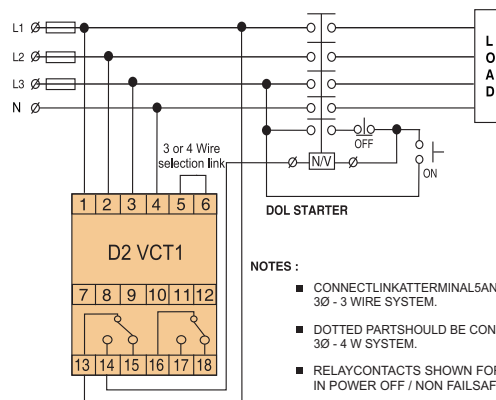


TECHNICAL DATA SHEET FOR D2 VCT1

Fig. 1



D2 VCT1 is a 3Ø - 3W / 3Ø - 4W (Selectable) relay offering protection against • Under Voltage • Over Voltage • Neutral Fail. Fail Safe / Non Fail Safe Relay Output logic, Tip Delay, Power ON Delay & Auto / Manual Resetting site selectable.

TECHNICAL SPECIFICATIONS OF D2 VCT1

- System Supply :** 100 - 120 / 220 - 240 / 380 - 440 VAC - 25 % + 20 %
- Aux. Supply :** In - Built
- Frequency :** 48Hz - 63 Hz.
- Output Relay Contacts :** (1 CO + 1CO)/2CO
- Output contact rating :** 5Amp, 240VAC [Resistive]
- Power consumption :** 26 VA(max.)
- Test Facility :** Refer Table 2
- Under / Over Voltage Trip Setting :** Refer Table 1
- Power ON Delay :** 1 to 10 Sec. [Variable]
- Trip Time Delay :**
 - UV/OV :** 1 to 10 Sec. [Variable]
 - Neutral Fail :** 2 sec $\pm$ 1.5 sec [Fixed]
- Set Accuracy :**
 - UV & OV :** $\pm$ 2 % of set value ($\pm$ 3 % of set value for 110VAC system)
 - Power ON :** $\pm$ 5 % of full scale ($\pm$ 10 % for 1st marking of P. ON Dly)
 - Trip delay :** $\pm$ 5 % of full scale
- Resetting :** Auto / Manual Reset
- Reset Gap :** 3 % $\pm$ 1 % of set value
- Indications:**
 - ON :** Steady On : Power ON
 - NF :** Steady On : Neutral Fail
 - UV :** Steady On : Under voltage
 - OV :** Steady On : Over Voltage
- Additional Features :**
 - Fail Safe / Non Fail Safe Relay :** Refer Table 2
 - 2 CO / 1 CO + 1CO :** Refer Table 2
- Enclosure :** ABS
- Dimensions (mm) :**
 - Overall :** 76 X 56.5 X 117.5
 - Mounting :** 66.6 X 46
- Mounting :** 35mm Rail Mounting & Panel Mounting
- Weight (Approx.) :** 300 gms.
- Operating Conditions :**
 - Temperature :** - 5 °C To + 60 °C
 - Humidity :** Up To 95 % Rh
- Life Expectancy :** 0.5 x 10⁶ operations at 100% rating

Table 1 : TRIP SETTINGS

Parameters	Under Voltage	Over Voltage
Cut off at (For 3Ø - 3 W)	285-425VACFOR 380-440VAC 165-225VACFOR 220-240VAC 75-115VACFOR 100-120VAC [Variable]	400-520VACFOR 380-440VAC 230-290VACFOR 220-240VAC 105-145VACFOR 100-120VAC [Variable]
Cut off at (For 3Ø - 4 W)	165-245VACFOR 380-440VAC 95-135VACFOR 220-240VAC 45- 65VACFOR 100-120VAC [Variable]	230-310VACFOR 380-440VAC 130-170VACFOR 220-240VAC 60- 80VACFOR 100-120VAC [Variable]
Power on delay	1 to 10 sec. $\pm$ 5 % Of Full Scale [Variable]	1 to 10 sec. $\pm$ 5 % Of Full Scale [Variable]
Trip time delay	1 to 10 sec. $\pm$ 5 % Of Full Scale [Variable]	1 to 10 sec. $\pm$ 5 % Of Full Scale [Variable]
Auto reset gap	3 % $\pm$ 1 % of set value	3 % $\pm$ 1 % of set value

Suitable for following application:

- Generator Set Panels.**
- Battery Charger Panels.**
- Inverter Panels.**
- DC Drive Control panels.**
- UPS**