TECHNICAL DATA SHEET FOR VPG D1

VPG D1 is phase failure relay operating on negative sequence voltage sensing principle and also have a built in water level guard(for single level) operating on electrical conductivity principle.

VPG D1 offers protection against

* Unbalanced voltage condition.
* Phase failure condition.
* Phase sequence reversal condition.
* Dry running condition for submercible pumps.

INPUT SENSOR

VPG D1 is to be used with **MINILEC** sensor prod only. The sensor prod is of stainless steel material (For specific & typical application you may use a sensor prod of suitable electrically conductive material in case **MINILEC** sensor prod does not suit your requirement). **Consult MINILEC before using modified sensor prod.** The **MINILEC** sensor prod has bolting arrangement for connecting a suitable cable & it is suspended from top opening of the bore Well.

TECHNICAL SPECIFICATIONS OF VPG D1

1. Voltage
System Supply : 415 VAC±20% ,50Hz±3%

2. Frequency : 50 Hz±3%

3. Power Consumption 3 VA Max.

4. Output Relay Contacts : 1 Changeover

5. Output Contact Rating :
5 A, 240 VAC (Resistive)

6. Trip settings :
Phase to phase Unbalance :
40V±6V (Fixed)
Dry Running : As Per Sensor Prod Positioning

7. Trip Time Delay For Unbalance & Dry Running : 3.5sec.±1.5 sec.

8. Resetting : Auto Reset

9. Unbalance Reset Gap : 10 - 18 V

10. Enclosure : ABS

11. Dimensions (mm) :
Overall : 76 x 30.5 x 117.5
Mounting : 68 [Center To Center]

12. Mounting :
Panel Mounting And 35 mm Rail Mounting

13. Weight (gms) : 300

14. Level Sensor :

a) Quantity	1 No.Stainless Steel Prod
b) Dimensions (mm)	Ref. Fig.3
c) Weight (gms.)	15

15. Operating Conditions :

Temperature :- -5^0 C to 60^0C
Humidity :- Upto 95 % R.H.

16. Life Expectancy :

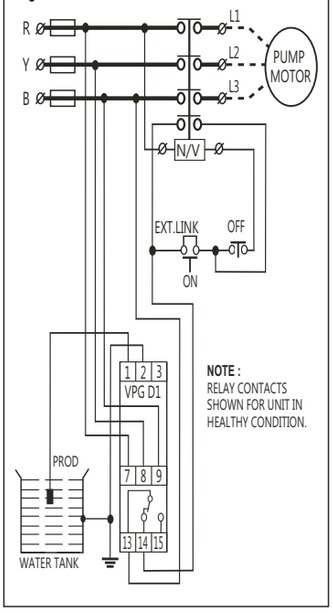
0.5×10^6 Operations At 100% Rating

17. Liquid Resistance : 150 K. Ohms

minilec®

ELECTRICAL CONNECTION IN POWER AND CONTROL WIRING

Fig. 1A AUTO OPERATION



ELECTRICAL CONNECTION IN POWER AND CONTROL WIRING

Fig. 1B MANUAL OPERATION