

INSTALLATION INSTRUCTION MANUAL PHASE FAILURE WITH UNDER AND OVER VOLTAGE RELAY

minilec®

S2 VMR7



S2 VMR 7 offer Protection against -

- * Phase Failure condition.
- * Phase sequence reversal condition.
- * Phase Unbalance condition.
- * Under voltage condition.
- * Over voltage condition.

S2 VMR7 is an auxiliary relay and it should be used along with the starter only. The effective Working of the unit will depend on efficient working of the starter. Before installing unit check whether the starter is operating perfectly by starting with the "ON" push button and switching off by "OFF" push button.

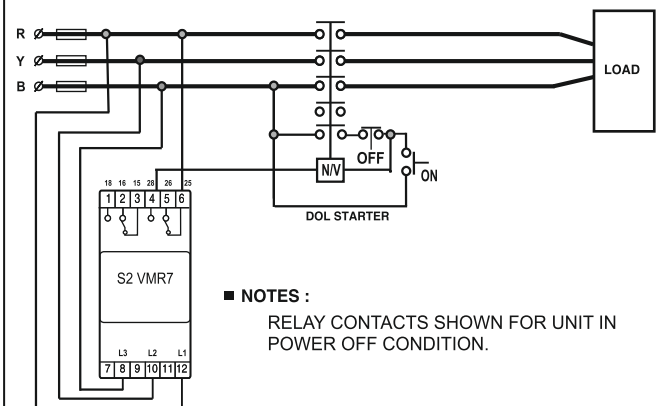
If the operation of START and STOP are imperfect the starter needs to be serviced. Do not install unit with faulty starter.

Note:- If the product is not installed as per guideline given by Minilec, company will not be responsible for any wrong connection, damage, Injury, accident, etc.

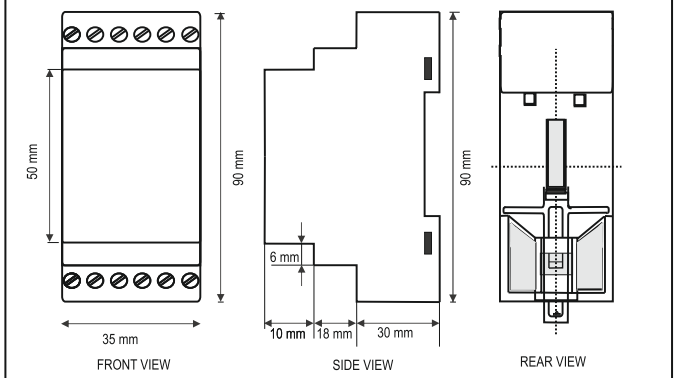
SPECIFICATIONS	
PARAMETER	DESCRIPTION
1. System Supply Voltage	380 / 400 / 415 VAC ± 20 %, 3 phase, 3 wire system
2. Auxiliary Supply Voltage:	In - Built from three phase.
3. Frequency	48 TO 63 HZ ± 3%
4. Power Consumption	12 VA @ 400 VAC and 25VA(Max.)
5. Output Relay Contacts	2 CO.
6. Output Contacts Rating	5 AMP, 240VAC [Resistive]
7. Unbalance Trip Setting	10% ± 10% of Set Value
8. Under Voltage Trip Setting (Ph - Ph)	90 % of System Supply
9. Over Voltage Trip Setting (Ph - Ph)	110% of System Supply (380 / 400 VAC) 109% of System Supply (415 VAC)
10. Trip Time Delay * For UB / UV / SP * For RP / OV	2 - 5 Sec Instant
11. P. ON / Reset Delay	2 Sec ± 1 Sec
12. Set Accuracy * For UV & OV setting. * For UB setting.	± 1 % Of Set Value ± 10%
13. Resetting:	Auto
14. Reset Gap: * For UV & OV * For UB	12 ± 5V 20% ± 5%
15. Indications * Power On (Green) * UB/RP (RED) * UV/OV (RED)	ON UB/RP ,steady for UB flashing for RP UV/OV ,steady for UV flashing for OV
16. Insulation Resistance (at 500 VDC) * Between coil terminal and Contact terminal. * Between contact terminals of same polarity.	10M ohm 10M ohm
17. High Voltage Capacity * Between terminals and mounting Plates.	2.5 K VAC / 50 Hz for 1 Sec.
18. Enclosure	S2 Series, ABS / PC-ABS.
19. Dimensions (mm) * Overall * Mounting.	: 35 X 90 X 60 : DIN Rail.
20. Weight (Approx.)	: 150 gms.
21. Operating Conditions * Temperature * Humidity	: - 5° C TO + 60°C : UP° TO 95 % Rh.

ELECTRICAL CONNECTION IN POWER & CONTROL WIRING

Fig. 1



ENCLOSURE DIMENSION



COMPLIANCE TO STANDARDS

	TEST	IEC STD.
1.	EFT Test of System Supply	61000-4-4
2.	Surge Test of System Supply	61000-4-5
3.	ESD Test (Contact Discharge)	61000-4-2
	ESD Teast (Air Discharge)	61000-4-2
4.	H.V. Test (Dielectric Test)	60255-5
5.	Insulation Resistance Test	60255-5
6.	Damp Heat test (Steady State)	60068-2-30
7.	Damp Heat test (cyclic test)	60068-2-78

WARRANTY - AGAINST ALL MANUFACTURING DEFECTS FOR 18 MONTHS FROM DATE OF SUPPLY OR 12 MONTHS FROM INSTALLATION WHICHEVER IS EARLIER

www.minilecgroup.com

Version 04 (01/12/2022)