INSTALLATION INSTRUCTIONS FOR S2 CMR5

INTRODUCTION

Thank you for selecting and purchasing MINILEC make current monitoring relay. The following installation instructions would guide you in installing your S2 CMR5 making the best use of it. These units offers following protections against-

S2 CMR5 -

- Under current.
- Over current

All above mention relays are anauxiliary 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 your 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 your unit with faulty starter

CAUTION



- 1. Ensure that all above relay are -
- Not installed near any heat sources like Burner, Sunlight, Electric arc etc.
- * Not subjected to abnormal vibrations.
- * Installed as near to starter as possible
- * Not subjected to Direct heat, Sunlight, Rain, Stormy wind and Dust.
- 2. Working of the products is affected by frequency variations and Harmonic distortion in applications. like Genset Supply or UPS Supply. Care should be taken to ensure that net resultant unbalance Supply is not beyond the unbalance trip limits of your unit.

- 3. Programm the relay to suit your application. refer table 1 for programming the relay.
- 4. If the product is not installed as per guideline given by Minilec,Our company will not be responsible for any wrong connection,damage, Injury,accident,Etc.

ELECTRICAL CONNECTION

See Fig. 1 to 5 for installation of the unit in the power and control wiring.

PROGRAMMING / SETTING

With the help of push button provided on front, you can Program the relay for suitable operation. Please see Table 1.

MOUNTING -

All models are suitable for DIN RAIL mounting.

Table 1 -

PROGRAMMING MODE SETTING

WARRANTY

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

MANUFACTURED BY:



S. NO. 1073/1-2-3, AT POST : PIRANGUT, TAL: MULSHI, DIST: PUNE (INDIA) PIN: 412 111 VERSION 02 (26/11/2018)

INSTALLATION INSTRUCTION **CURRENT MONITORING RELAYS** S2 CMR5



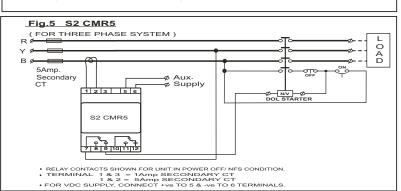


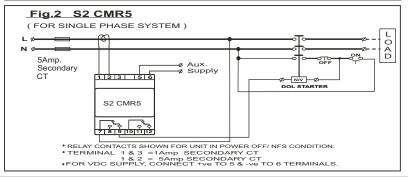
. Too tallimine mode of time					
PRESS TEST/	S2 CMR5 LED STATUS				
RESET PUSH BUTTON FOR	ON LED	UC LED	OC* LED	Mode	
	0	\$3/0	0	Run Mode	
≥ 8 SEC	2\$3	坎	Σζ.	Program Mode	
✓ 4 SEC	0	0	0	Test Facility.	
WAIT 3 SEC	0	0	0	Exit Test Mode.	
> 4 SEC	$\Sigma_{\mathcal{A}}$	0	0	Auto / manual Reset selection	
≤ 4 SEC	0/0	0	0	Auto Reset /	
> 4 SEC	0	₹,3	0	Fail Safe/ Non Fail Safe selection	
≤ 4 SEC	0	0/0	0	Fail Safe / Non Fail Safe	
<u>></u> 4 SEC	0	0	攻	Common or Separate relay selection	
< 4 SEC			0/0	Relay-1,Relay-2 For UC & OC	
				Relay-1For UC, Relay-2 For OC	
<u>></u> 4 SEC	0	0	坎	Zero Current Trip / Healthy selection	
< 4 SEC	0	0/0	0/0	Zero Current Trip	
				Zero Current Healthy	
IF P. B. IS NOT PRESSED FOR>10 SEC	Σζ	攻	₹\$	AUTO EXIT program mode after flashing for 3 sec.	

LED ON LED OFF Σ LED FLASHING BY PRESSING P. B. CONTINUOUSLY ENTER IN DESIRED MODE, SKIPPING IN BETWEEN MODES.
BY DEFAULT UNIT IN-AUTO,NFS,2CO,ZCT MODE. NOTE:-

Fig - 6 ENCLOSURE DIMENSIONS 000000 E 90 mm 90mm 000000 FRONT VIEW SIDE VIEW REAR VIEW

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Sr. No.	PARAMETERS	S2 CMR5
1	System supply voltage	100 / 110 / 120 VAC± 20 % 220 / 230 / 240 VAC± 20 % 380 / 415 / 440 VAC± 20 %
2	Aux. Supply	100 - 120, 220 - 240, 415 VAC± 20% 24VDC ± 20%
3	Frequency	50 / 60 Hz.
4	Output relay contacts	2CO
5	Output contact rating	5 Amp, 240VAC [resistive]
6	Rated input current	5Amp/ 1Amp (selection on terminal) Terminal 1 & 2 current input 5A (# 0.5A) Terminal 1 & 3 current input 1A (# 0.25A) (# - 0.5/0.25A MODEL OPTIONAL)
7	Under current trip setting	* 10 % TO 100% of rated current input (variable) ± 5 % w.r.t full scale.
8	Current Trip setting (O/L, OC, EF, EL)	50 % TO 140% of rated current input variable ± 5 % w.r.t full scale
9	Current unbalance trip setting	N.A
10	Trip time delay	1 -10 sec ± 1 sec (Adj)
11	Power on delay	1 -10 sec ± 1 sec (Adj).
12	Resetting	Auto / Manual
13	Reset gap	10% ± 1% w.r.t. Set current (Fixed)
14	Current sensor	External CT having 5Amp or 1Amp secondary.
15	Indications	Power on (Green) - ON Under current (Red) - UC Over current (Red) - OC
		[For UC & OC fault respective Red LED Steady ON]
16	Enclosure	S2 series - ABS / PC ABS
17	Dimensions (mm)	Overall (L X W X D) = 90 x 35 x 60 Mounting = Rail Mounting
18	Weight (gms.)	140
19	Operating conditions	Temperature = - 5 c to + 60 c Humidity = upto 95 % rh.
20	Programming mode for [BY FRONT PUSH BUTTON]	Test facility, Auto / manual Reset, NFS / FS facility, common or separate relay selection, ZCT or ZCH facility