

TECHNICAL CHARACTERISTICS :

PRODUCT	CMR 1AL/ CMR 1AL-N	CMR 1ML/ CMR 1ML-N	CMR 5AL/ CMR 5AL-N	CMR 5ML/ CMR 5ML-N	CMR 5AP/ CMR 5AP-N	CMR 5MP/ CMR 5MP-N	CMR 5AG/ CMR 5AG-N	CMR 5MG/ CMR 5MG-N
Auxiliary Supply	35VAC / DC-300 VAC / DC							
Power Consumption (max.)	5VA (APPROX.)							
Over Load Protection	0.2 - 2 Amp		0.5 - 5 Amp		0.5 - 5 Amp		0.5 - 5 Amp	
Under Load Protection	NA		NA		0.25 - 4 Amp		0.25 - 4 Amp	
Trip Time	0.2 - 10 Sec		0.2 - 10 Sec		0.2 - 10 Sec		0.2 - 10 Sec	
Start Time	NA		NA		NA		0.2 - 30 Sec	
Reset Type	AUTO	MANUAL	AUTO	MANUAL	AUTO	MANUAL	AUTO	MANUAL
Reset Time	10 SEC	NA	10 SEC	NA	10 MIN	NA	10 MIN	NA
Power On Delay	< 500 ms							
LED Indication								
ÜMains	POWER ON							
ÜOC	OVER CURRENT							
ÜUC	UNDER CURRENT							
Test Function	NO		YES					
Setting Accuracy	+ / - 5%							
Repeat Accuracy	+ / - 2%							
Hysteresis	+ / - 5%							
Relay Output :								
ÜContact Arrangement	1C/O							
ÜContact Rating	5A Res. @ 250 VAC / 30VDC							
ÜContact Material	Ag Alloy							
Mechanical Life Expectancy	3 x 10 ⁶ Operations							
Operating Temperature	-20°C to +70°C							
Storage Temperature	-25°C to +80°C							
Pollution Degree	2							
Degree of Protection	IP-20 for Terminals, IP-40 for Housing							
Mounting	Din Rail (35 mm symmetrical)							
Dimensions in mm(WXHXD)	37 x 65 x 92 (mm)							
Weight	150 gm							


 MRM **PROCOM**® Pvt. Ltd.

CURRENT MONITORING RELAY SERIES CMR

MODEL NO.	TRIP CHAR.	CURRENT	APPLICATION
CMR 1AL	Definite	0.2 - 2 Amp	Current/earth Fault Protection
CMR 1ML	Definite		
CMR 5AL	Definite	0.5 - 5 Amp	Current/earth Fault Protection
CMR 5ML	Definite		
CMR 5AP	Definite	0.5 - 5 Amp	Motor Protection
CMR 5MP	Definite		
CMR 5AG	Definite	0.5 - 5 Amp	Motor Protection
CMR 5MG	Definite		

NOTE:

Product innovation being a continuous process, we reserve right to alter specification without prior notice.

* Non-fail safe mode can also be ordered. Ex. CMR-5AP-N

Main Features

- Adjustable Over-load Protection
- Adjustable or Fixed Under-load Protection
- True RMS measurement
- Auto/Manual Reset Available
- Wide Range of Current Adjustment
- Definite time trip operation
- Start delay programmable
- Wide range Auxiliary supply(30V-300V AC/DC)
- Din-Rail Mounting
- Test Feature to check product Functionality
- Sleek body of 35mm width.
- LED indication of all faults.
- Easy to install.

Functional Description

• Under Load Protection:

Under Load protection is provided by undercurrent trip. When current fall below the set level the under load fault is generated. It is suitable for small pumps to avoid dry running, cavitation, etc.

• Overload Protection :

Relay trips if the current exceeds set value of the current for duration of trip time during running time. Relay trips if current exceeds set value for duration of addition of start time and trip time of startup.

• Test Function :

This function can be used to check the trip time accuracy of the relay. For test sequence press and hold the TEST switch. Relay trips after completion of set values of start time and trip time.

• Fail Safe Mode

Relay excites when current is healthy, within permissible limits.

• Non Fail Safe Mode

Relay excites when current is unhealthy, outside permissible limits.

Reset:

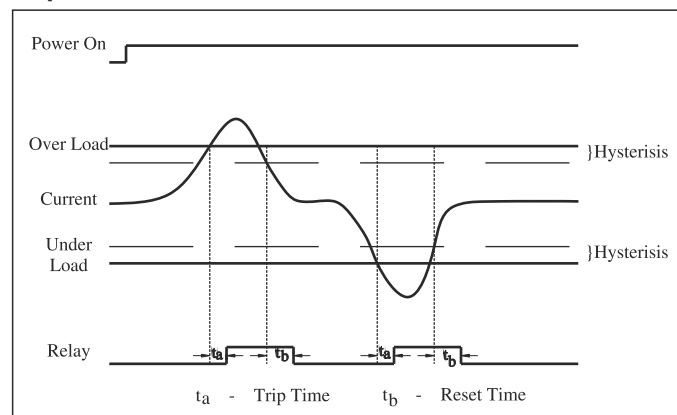
• Auto

In case of Auto reset mode, relay resets after set time.

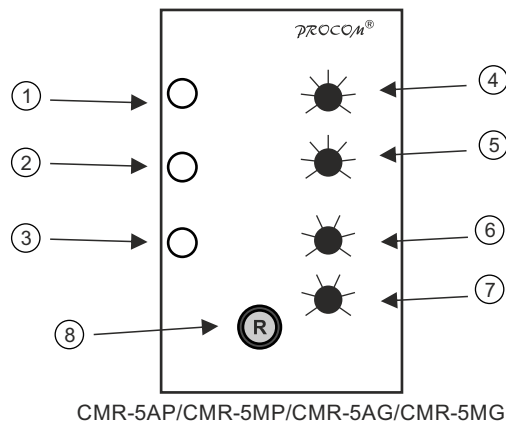
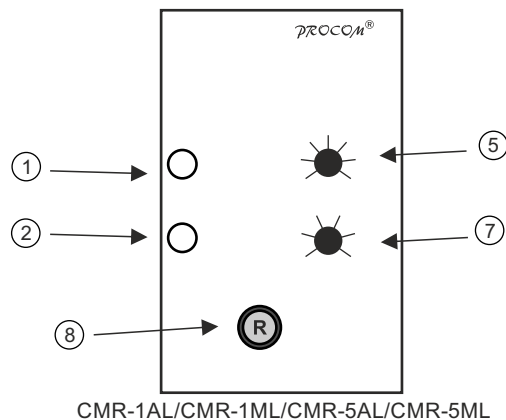
• Manual

For all trips relay could be reset immediately by manually pressing and holding reset switch For 2 seconds.

Trip Characteristics



Function Diagram :



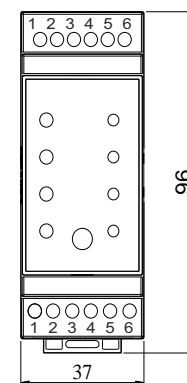
1. Power on LED indication
2. Over current trip indication
3. Under current trip indication
4. Potentiometer for start time setting
5. Potentiometer for over current setting
6. Potentiometer for under current setting
7. Potentiometer for trip time setting
8. Reset Switch

CAUTION:

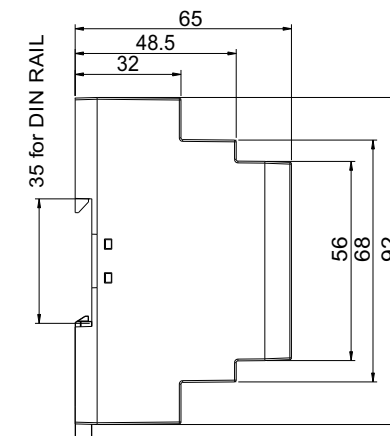
1. Always follow instruction stated in this product leaflet.
2. Before installation, check to ensure that specification are in agreement with the intended application.
3. Installation to be done by skilled electrician.

Dimensions :

Dimensions :

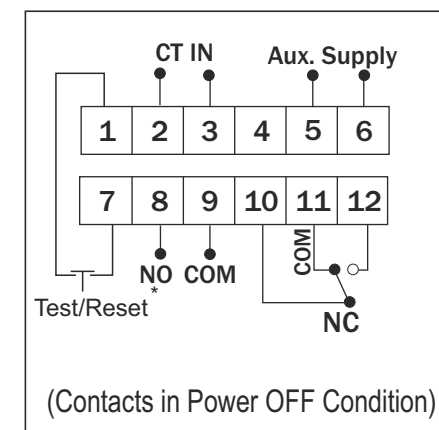


Side View



Front View

Connection Diagram



* Remote Test/reset Is Available Only On Motor Protection Models.



MRM **PROCOM**® Pvt. Ltd.

Plot No. 20-21, Sector 59 Phase- II,
Faridabad, Haryana, Pin - 121004
Phone: 091-129-4700400
E-mail: info@mrmprocom.com