

REVOLUTIONIZE YOUR MCC

I.MWM

Most Intelligent Programmable Motor Management Device

Reliability and **A**ccuracy, **A**pplication Neutral, **I**nformation,
Protection & **C**ontrol, **C**ommunication, **R**ange,
User Friendly, **D**esign and **P**roduct of India R&D



For Your Most Critical Industrial Infrastructure



RELIABILITY & ACCURACY

Coming from Softhard, masters in motor protection for over 3 decades with over 500,000 devices installed across India and abroad. CT based measurement and protection with field calibration for maximum accuracy and reliability

PROTECTION & CONTROL

Protect and Control your motor with feature rich flexibility

Protection & Control	Features
Over Current	Motor Curve Selection
Current based Single Phasing with settable trip times	Definite time Characteristics
Voltage based Single Phasing	Selectable CT ratio
Current Unbalance	Auto Reset facility
Over Voltage	Restart time delays settable
Under Current or Dry Run with settable trip time	Two level password protection
Under Voltage	Settable Star Delta timer
Phase reverse	Remote motor direction control
Locked Rotor	Pre alarm for low pf or low kw
Short Circuit	Remote Start stop
Earth Leakage	

INFORMATION

At a click in your control room or on the panel or on The device get all the critical information

Electrical Parameters	Other Parameters
Line Current	Operating Hours
Line Voltage	Start Counter
Phase Voltage	Trip Counter
Phase wise PF	
Average PF	Last Trip Information
Phase wise kW	Phase currents
Average kW	Phase Voltages
Phase wise kWh	Cause of tripping
Average kWh	

REDUCE COST SIGNIFICANTLY

COMMUNICATION

Modbus Protocol through RS 485 port

Get service and diagnostic data in your command and control. Analyze... Act and save money.... improve productivity. It's all in the motor....

USER FRIENDLY

With a 92 x 92 mounting it simply sits where you mount an ammeter or a voltmeter. Use a GUI for multiple devices with user friendly settings. Software developed in-house for indefinite support!

DESIGN & PRODUCT OF INDIA

A product of India designed by India for India with inputs from Indian Industry over last two decades of R&D.

ELIMINATE FAILURES

Multiple products means multiple opportunities of failures. Means unreliability. Means multiple inventory

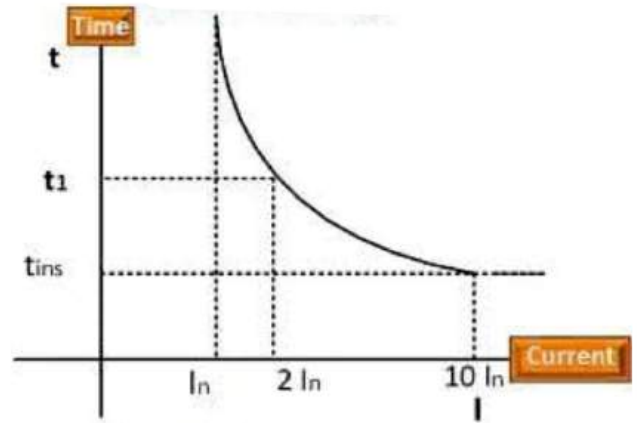
Overload Relay	X
Ammeter	X
Voltmeter	X
Energy Meter	X
PF Meter	X
MPCB	X
Start Button	X
Stop Button	X
On indicator	X
Wiring	Significant reduction
Selector switch	X
Star Delta timer	X
Earth leakage relay	X
Operating hour meter	X

RANGE

Just 5 ranges cover all motor applications.
No headache of spares.

0.25 to 5A	With in-built CT
4A to 61A	External CT Box
40A to 500A	External Wound CT
250A to 2500A	External Wound CT
500A to 5000A	External Wound CT

Inverse definite minimum time characteristics



CONVENTIONAL MCC



INTELLIGENT MCC WITH IMWM



TECHNICAL SPECIFICATIONS

1. Model Range:

- 0.25 to 5 A with external CT Box
- 4 to 61 A with external CT Box
- 40 to 500 A with external CT Box
- 250 to 2500 A with external CT
- 500 to 5000 A with external CT

2. Aux. Supply Voltage:

415 VAC. 3 Phase, 4 wires 4 Pin,
6.35mm pitch (R,Y,B,N) Connection
Capacity: maximum for 1.5 sq.mm cable

3. Incoming Current Terminals:

6 pin, 6.35 mm pitch (R1, R2, Y1, Y2,
B1, B2) suitable for 1.5 sq.mm cable

4. E1, E2 Terminals:

2 pin, 6.35 mm pitch

5. Communication Terminals

2 pin, 6.35 mm pitch, suitable for 1.5 sq.mm Cable

6. Frequency: 50Hz +/-10%

7. Accuracy: For Power Class 1.0

8. Electron Magnetic Compatibility ESD, EFT, surge

9. Display: Backlit LCD 16 x 2

10. Digital Input:

110 VAC OR 230 VAC +/-15% Terminals
for DI 1, D12, D13, D14 & Common pole
(Neutral) 5 pin, 6.35 mm pitch connection
capacity maximum 1.5 sq.mm cable

11. Digital Output

DO 1: P-NO-NC: 3A/250 VAC
DO 2: P-NO-3A/250 VAC
DO 3: P-NO-: 3A/250VAC
DO 4: P-NO-: 3A/250 VAC
DO 5: P-NO-: 3A/250 VAC
DO 6: P-NO-: 3A/250 VAC

12. Temperature:

10 C to 60 C for operation.
-20 C to 70 C for Storage.

13. Case Material:

ABS Moulded Protected to Ip20

14. Humidity:

95% RH non condensation

15. Weight:

0.59 Kg for each Model range

16. Dimension details:

Front Panel-96 x 96 mm Unit
Size-90 x 90 x 85 mm Door
Cutout - 92 x 92 mm

SOFTHARD CUSTOMERS FOR OVER TWO DECADES



UNITED PHOSPHORUS LIMITED



Deepak Nitrite Limited



GHARDA CHEMICALS LIMITED



SUDARSHAN

VOLTAS

NEROLAC



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