Intelligent Motor Protection Device

intelligent. MOTOR POWER MANAGER-i.MWM

The Next Generation i.MWM-IO

The New i.MWM-IO is Compact, Flexible and easily integrated to the overall plant with replacing complex & expensive hardware.

Features:

- Built in MMI with 16X2 LCD supported with backlit & Keypad.
- Built in IOs to START/STOP Motor Starter through Push Buttons.
- Built in Settable Digital Timer, Restart Delay Timer & Delta-Star Converter.

Monitoring:

Parameter displays through LCD that includes,

- Line Current [R-Y-B]
- Line Voltage [RY-YB-BR]
- Phase Voltage [RN-YN-BN]
- Power Factor [Per Phase & Average],
- Running Load-KW [Per Phase & Total]
- Energy Consumption-KWh [Per Phase & Total]
- Motor Operating Hour [Total]
- Nos. of Start for Motor
- Nos. of Trip for Motor
- Phase Voltage Status at Last Fault
- Line Current Status at Last Fault

Technical Specifications:

Current Range:

a) 0.25 TO 5 Amp
b) 4 TO 61 Amp
c) 40 TO 500 Amp
d) 400 TO 1200 Amp

Power Source: Three Phase Four Wire [R-Y-B-N]
Frequency: 50 Hz ± 10 %
Accuracy: Class 1.0 for Power
Display: Backlit LCD 16 X 2
Digital Input: 110 VAC OR 230VAC ± 15 % [DI1 to DI4 & Neutral]
Digital Output: Potential Free Relay [DO1 TO DO6]
Control Terminal: 3 Amp / 110VAC OR 230VAC
Temperature: +10˚C to +60˚C for Operation / -20˚C to +70˚C for Storage.
Case material: ABS Molded Protected to IP 20
Humidity: 95% RH non-Condensation
Weight: Approx. 750gms
Dimension: 90 mm X 90 mm X 96 mm [W X H X D]
Mounting: Door [Cutout: 92 mm X 92 mm]
Communication: RS-485 [Protocol: MODBUS]

"With In-built Delta-Star Converter for purpose of Energy Saving."



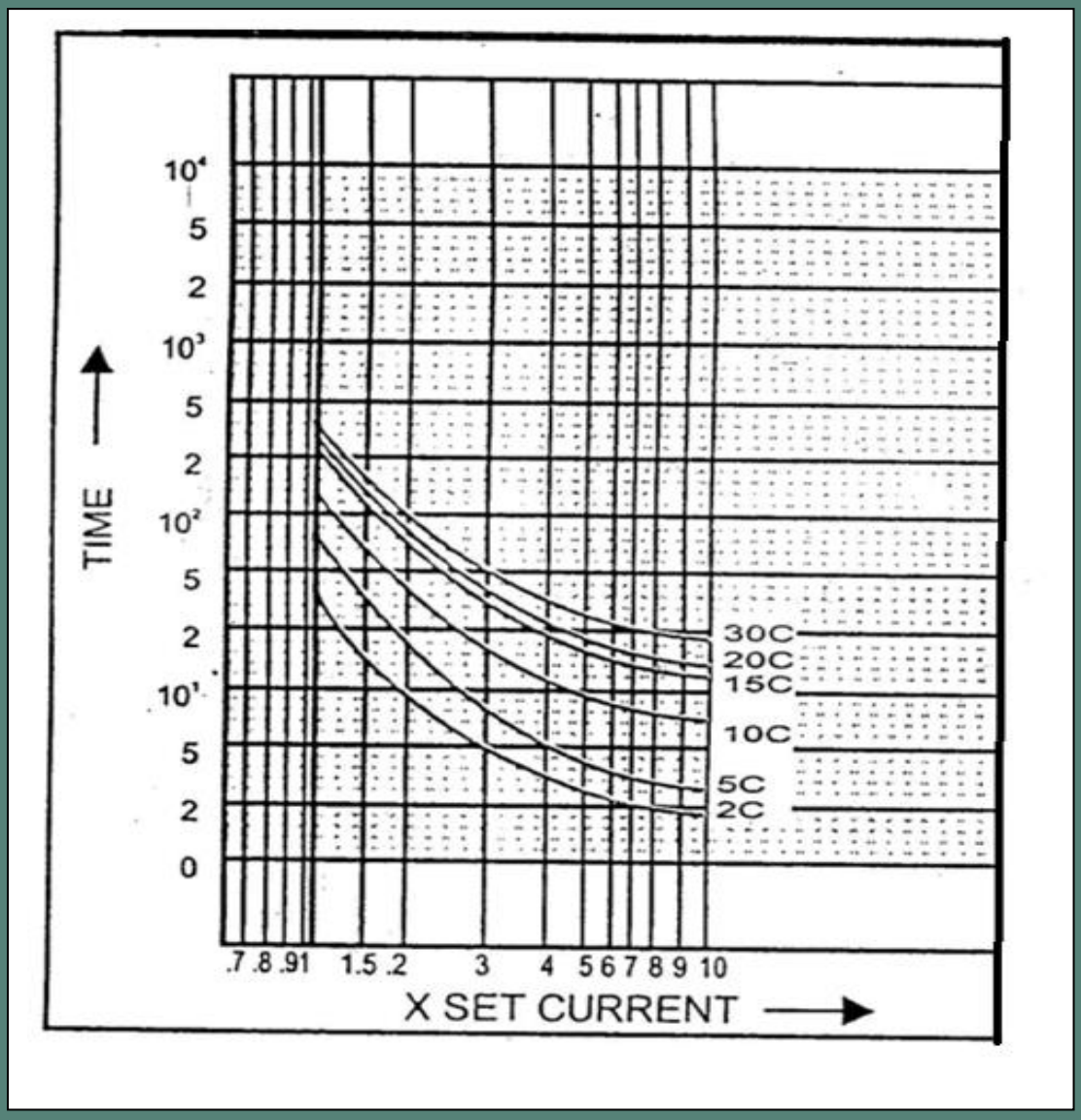


Protections:

Single Phasing Protection **[Current]**
Single Phasing Protection **[Voltage]**
Over Load Protection **[49]**
Under Load Protection **[39]**
Phase Un-balance **[47]**
Phase Reversal Protection **[46]**
Locked Rotor Protection **[50LR]**
Short Circuit Protection **[51]**
Earth Fault Protection **[50G]**
Over Voltage **[59]**
Under Voltage **[27P]**

Micro Controller Based Motor Protection Device

IT Characteristics



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