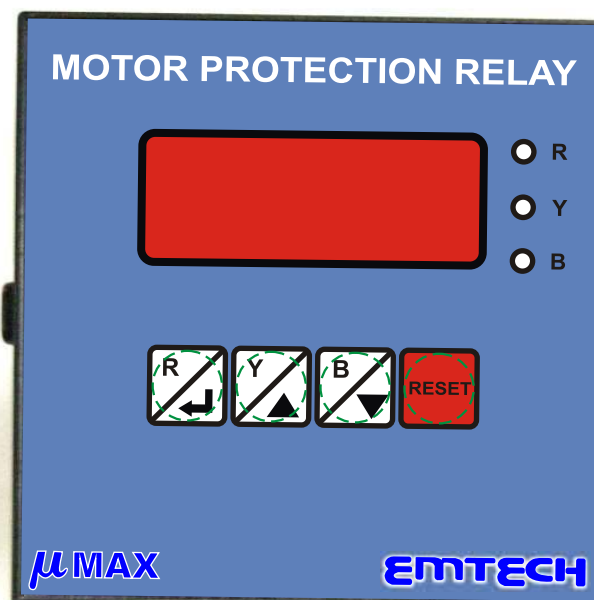


Quality product, Timely Delivery  
Value Pricing & After Sales Service

Protection available for very big motors is  
Now affordable for smaller motors also.  
& it is better then Thermal overload relay



Use microcontroller based  
MOTOR PROTECTION RELAY



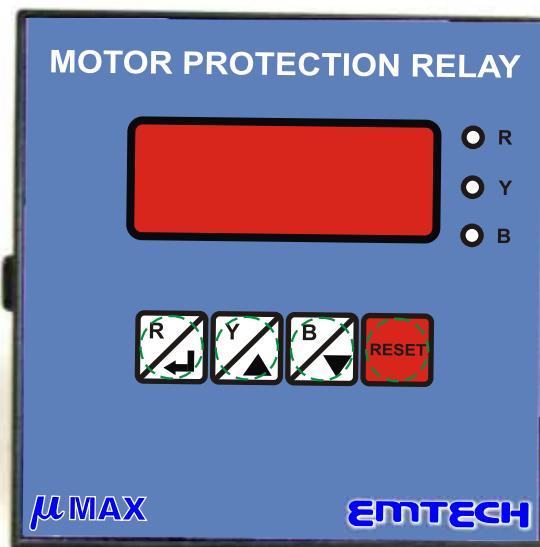
## Compare the Features

- Thermal BI-METAL Relays are poor at overload conditions above 20%. With our MPR you get three trip curves guaranteed to trip within  $\pm 2$  seconds up to 150%.
- Thermal BI-METAL Relays loose Accuracy with time. Our relay is based on digitally stored overload v/s time curve so accuracy is not lost with time.
- Thermal BI-METAL Relays consume more energy whereas our MPR consume only 3 watts.
- Electronic overload relays and Thermal BI-METAL Relays are blind so starting kick and running current not visible. Same way, setting is also not accurate.

### Following features only in our MPR

- Our MPR has got digital ammeter so starting kick as well as running currents are visible. What is more, you have selectable scroll time & you can continuously monitor particular phase also.
- MPR monitors current in each phase & earth leakage current (optional) with 3 + 1 CTs, so decision is more accurate.
- Fully programmable for overload, single phasing, under load (dry run), unbalance, lock rotor (rotor jam), short circuit, earth leakage & starting delay for kick.
- Fault annunciation so easy fault analysis.
- Multi-function so reduced wiring & gives good aesthetic look to control panel.

# Motor Protection Relay



## Protection Features

- |                |               |
|----------------|---------------|
| Overload       | Locked Rotor  |
| Single Phasing | Un-balanced   |
| Under Current  | Short Circuit |
| Earth Leakage  |               |

### Fault Annunciation

Overload	<b>OL-P</b>	<b>62</b>	Locked Rotor	<b>LR-P</b>	<b>248</b>
Single Phasing	<b>SPP</b>		Un-balanced	<b>Ub-P</b>	<b>0000</b>
Under Current	<b>Uc-P</b>	<b>5</b>	Short Circuit	<b>Sc-P</b>	<b>362</b>
Earth Leakage	<b>EL-P</b>	<b>0100</b>			

&

Three-Phase Ampere Meter - Scrolling Display

NEW : AUTO RESET FUNCTION WITH PROGRAMMABLE DELAY

## Technical Specifications

<b>Auxiliary Supply</b>	230 VAC $\pm$ 20% , 47 – 63 Hz , 5V A
<b>Output Contacts</b>	1 C/O, NO/NC
<b>Output Contacts Rating</b>	Continuous 3A at 240V AC
<b>Dimensions</b>	Cutout size 92 x 92 mm, 65 mm Depth, Bezel Size 96 x 96 mm,
<b>Display &amp; Key Board</b>	4 Digit, Seven-segment Display , 4 Keys
<b>Display Resolution &amp; Range</b>	Res./Range : .2A/25A, .5A/62A, 1A/125A, 2A/250A
<b>Annunciation</b>	Seven Parameters & Value on Display
<b>Phase Current Indication</b>	Current Displayed along with RED, YELLOW , GREEN LED
<b>Phase Current Sensing</b>	3 CTs for Phase, 1 for Earth leakage
<b>Interface Contacts</b>	1 Sq mm with fork type Lugs
<b>Temperature</b>	0 °C to 50 °C
<b>Enclosure</b>	ABS molded enclosure
<b>Weight</b>	Approx. 400 Gms.
<b>Trip Time</b>	In accordance with trip curve Figure 1 Min. 5 Seconds, Max. 180 Seconds

### Notes:

- Specification of time delay for trip is 1second min.
- Programming Manual is supplied along with unit & CT's.
- All settings stored in memory.
- Failure type and value are stored in memory & Will clear if RESET Button is pressed For 1 second in manual reset mode.
- In Auto reset mode relay will automatically Reset after programmed delay.
- Higher Range also available with custom built CT.

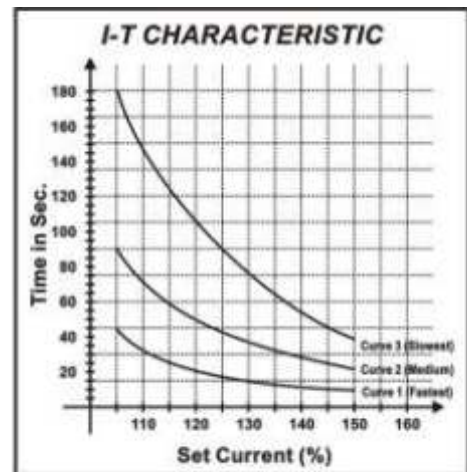


Fig. 1

Guaranteed to work within +/- 2 Sec.

## EMTECH SOLUTION

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