

Microprocessor Based Motor Protection Relay - MBMPR



MBMPR is a Microprocessor Based Motor Protection Relay. It uses state of art digital technology to measure various parameter of the motor and take corresponding corrective actions.

The system consists of hardware design to provide high degree of accuracy and reliability. The Microcontroller based protection ensures high accuracy and disturbance free operation.

This is a comprehensive motor protection relay that protects a motor against various hazards like Phase Failure, voltage unbalance, phase sequence, overloading, under/over voltage, winding over temperature, over/under current, short circuit, lock rotor, current unbalance, current phase loss and earth fault. Perfect protection for higher HP ratings of motors.

Supply Voltage System Auxiliary	415V AC \pm 20%, 3 Ph 3 wire, 50 / (60) Hz \pm 3% 90-270 V AC/DC				
Output Relay Contact	1 CO for Trip & 1 CO for Alarm				
Input	External CTS (CT5/CT20/CT50)				
Power Consumption	8 VA				
Trip Setting	Settings	Trip Level	Trip Delay	LED	Reset Mode
	Power ON	---	---	★	---
	Unbal/Ph. Rev.	1% - 20%	1-10 Secs.	★	Auto/Manual
	Under Voltage	75% - 95%	1-10 Secs.	★	Auto/Manual
	Over Voltage	105% - 120%	1-10 Secs.	★	Auto/Manual
	Current Unbalance	20-60% of Imax	1-10 Secs.	★	Multi Attempt
	Current Phase Loss	---	1-10 Secs.	★	Multi Attempt
	Under Current	30-90% of Imax	1-10 Secs.	★	Multi Attempt
	Over Current / Short Circuit	300%-800% of Imax	2-25 Secs.	★	Multi Attempt
	Overload	2/5/10/15/20 Sec.	As per IDMTL char.	★	Manual
	Lock Rotor	200%-500% of Imax	1-10 Secs.	★	Manual
	Earth Fault	30% - 80%	0.5-10 Secs.	★	Manual
Winding Overheat	4K1-5K6	1-20 Secs.	★	Auto/Manual	
Display	16x2 Ch. (Back lit)				
Dimensions (mm)					
Overall (LxWxD)	166 x 216 x 80				
Panel mounting (LxW)	153 x 203				
Approx Weight	600 gms				

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