

MOTOR PROTECTION SYSTEM



No Restriction on
Meter Modbus Register
address map

Smart & Intelligent

- True RMS measurement
- Accuracy class 1.0 IEC 61036 / CBIP 88 (0.5, 0.2 option)
- User programmable password protection
- Auto-scaling of Kilo, Mega, Giga and decimal point
- Finger touch proof terminals for voltage and current connections
- Clearance & creepage distance meets UL safety standard.
- Built-in voltage & current phase analyser measures 4 quadrant power & energy (4 quadrant energy for R/D option)
- Auto scrolling
- Communication with PCs, PLCs, DCS thru optional RS 485/RS 232 serial interface
- Displays ON Timer, load hours & number of interruption

A First in the Industry

- Motor protection / tripping facility with fault identification
- Simultaneous display of 7 parameters
- Intelligent power save mode
- Two Field configurable parameter for continuous display
- Continuous Wh display even in Autoscrolling mode
- Graphical display - future up-gradation option
- Neutral current display, protection
- Analog input option for process integration
- Digital input option for automation or cost effective networking
- Digital output with programmable trip time option for protection / control application
- Demand control option - 4 relay in compact size 96×96×45 mm

MOTOR PROTECTION SYSTEM

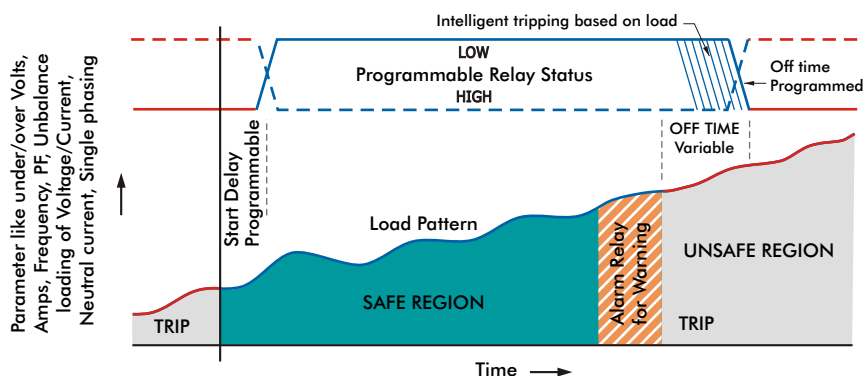
MPS 8000



- Single solutions for protection of motors/equipment against voltage, overload, frequency, PF, single phasing, unbalance loading of voltage and current, neutral current, phase reversal
- Programmable start time from sensing safe condition
- Programmable (intelligent inverse time) trip time for Volts/Overload/Hz/PF/Neutral current
- Programmable relay status High or Low for safe, 2 relay for alarm and trip
- Detect winding shorts, cable loss
- Store the reasons for trapping future correction
- Manual re-correction once tripped. Measures VLL, VLN, A, Hz, W, VA, PF, Neutral current, Wh, Load hours, ON time, No. of interruption
- Safe/Alarm/Trip indication for on line view
- Best curve fitting for overload trip, startup current

Options

- Clamp on CT meters/ 5A for easy installation without shutdown
- DIN rail
- RS485/232 connection



Parameter	Operating Condition	Operating Time
Over Current	More than 110% of rated current	1 - 60 sec
Phase loss	Current unbalance rates over 70%	With in 3 sec
Phase reverse	Current unbalance rates over 30 - 50%	With in 1 sec
Stall	Rated current 150 - 300%	With in 5 sec
Locked Rotor	Rates current 200 - 700%	With in 1 sec