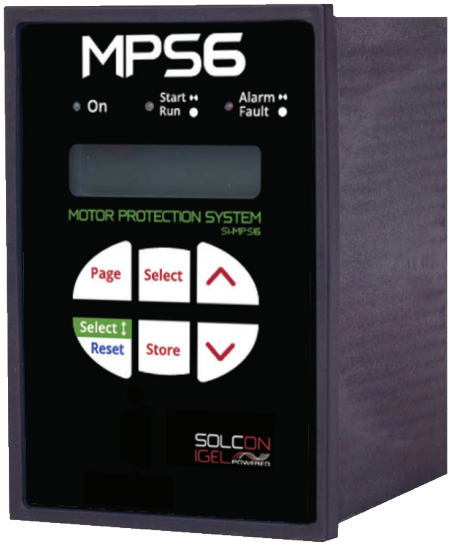
# MPS6

## Motor Protection System

T he MPS6 Motor Protection System is a next-generation microcontroller-based relay/controller for three-phase induction motors. With a 0.5 ms sampling rate, it delivers precise True RMS voltage and current measurements, ideal for soft starters and electronic motor drives.

The MPS6 ensures reliable motor protection, safeguarding against voltage fluctuations, overcurrent, thermal overload, and ground faults. It features advanced fault diagnostics, real-time monitoring, and programmable relay outputs for proactive maintenance and reduced downtime.

With RS485 and RS232 interfaces supporting Modbus RTU and optional Profibus, the MPS6 integrates seamlessly into industrial automation networks for remote monitoring and control.




### Key Functions

- Advanced Motor Protection
- Supervision and Monitoring
- Control Features (in C models)
- Communication and Integration
- Uer-Friendly Interface

### Advanced Features

- True RMS Measurements
- Dynamic Thermal Modeling
- Time-to-Trip Estimation
- Event & Fault Logging
- Multiple Starting Methods
- Programmable Logic Inputs & Outputs
- Advanced Trip/Alarm Customization
- RS485 Modbus RTU
- Optional Profibus Support
- Multi-Device Networking
- LCD Display with Keypad & LEDs
- Secure Access Control
- Simulation & Testing Mode

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## Protection Functions

- Voltage-Based Protections
- Automatic Restart
- Overcurrent Protection
- Undercurrent & Load Monitoring
- Current Unbalance & Ground Fault Protection
- Power & Efficiency Protections
- Thermal Overload Protection
- RTD/Thermistor Monitoring
- General & External Protections
- Advanced Fault Management

## Applications

- Pumps
- Thrusters
- Mixers
- Crushers
- Conveyors
- Chillers
- Fans
- Compressors
- Power Packs
- Debarkers
- Ball Mills

## Ordering Information

| MPS6 | 5- | 2- | 3T- | M- | 0- | S |
|---|---|---|---|---|---|---|
| | C/T Secondary | Supply Voltage | Thermal Sensor | Comm. | Options | Front Panel |
| | | | | | | |
| **C/T Secondary** | | | | | | |
| Specify | Description | | | | | |
| 1 | 1A | | | | | |
| 5 | 5A | | | | | |
| **Supply Voltage** | | | | | | |
| Specify | Description | | | | | |
| 2 | 110 - 230V 50/60Hz or DC (+10%/-15%) | | | | | |
| **Thermal Sensor** | | | | | | |
| Specify | Description | | | | | |
| 3T | 3 Thermistors | | | | | |
| 3R | 3 RTD (PT100) | | | | | |
| **Communication** | | | | | | |
| M | Communication RS-485 (MODBUS) Rear connection | | | | | |
| P | Rear connection with Profibus protocol (1) and front connection RS232 Modbus Protocol | | | | | |
| **Required Options - O** | | | | | | |
| Notes | For more than one option indicate, for example RM+5+8 (Rear Modbus communication, analogue output and Harsh environment).<br>* All options must be ordered in factory – options can't be installed on site. | | | | | |
| **Front Panel Standard** | | | | | | |

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