



## MPS 3000

### Motor Protection and Control Relay

The MPS-3000 is an ideal solution for Medium and Low Voltage motors because it provides a comprehensive control and protection package. The MPS-3000 monitors 3-phase currents and voltage using 10 RTD/ Thermistor temperature inputs.

The MPS-3000 is available in two configurations - as a protection relay and as a motor controller. The unit can also be mounted vertically or horizontally based upon the system configuration.

### Certified Protection

ANSI/IEEE C37.2	PROTECTIONS	MPS 3000
3	Communication failure / Internal failure	✓
27	Under-voltage	✓
32L	Under Power Level 1/2	✓
37	Under current Level 1/2	✓
46	Current Imbalance Level 1/2	✓
47	Phase sequence/loss	✓
48	Max. Start Time	✓
49R	High Temp. Level 1/2, sensors 1-10	✓
49/51	Thermal Capacity Level 1/2	✓
50	Over Current Level 2 - Short	✓
50G	Ground Fault Level during starting	✓
50G/N	Ground Fault Level 1/2	✓
51L	Load Increase - Alarm	✓
51R	Over Current Level 1 - Jam	✓
55	Lead / Lag PF / Low Power Factor	✓
59	Over-voltage Level 1/2	✓
66	Too Many Starts Level 1	✓
49R	RTD 1-10 Level 1/3	✓
74	Control Circuit Open	✓
74	Welded Contactor	✓
86 or 94	External Fault 1/2/3	✓

### Advanced Features

- Monitoring 10 temperature inputs, 3-phase current, voltage and energy
- Power measurement (3-phase voltage measurement)
- Statistical data of last 10 trips with time and date stamp
- RTD bias for thermal overload
- Multiple Thermal Overload curves
- Too Many Starts pre-alarm, configurable to energize dedicated output relay
- Capture and display of min and max RMS, average of 3-phase current, one voltage, min and max frequency
- Ground Fault setting during start eliminates nuisance trips
- MODBUS communication, remote parameter programming, control and supervision.
- Programmable discrete inputs/output
- 4 programmable analog outputs
- 4 programmable analog inputs



# MPS 3000-C

## Motor Protection Controller

The MPS-3000-C includes the same functionality as the standard MPS-3000, but it incorporates motor control capabilities. It includes various starting methods including Direct Online, Star Delta, Soft Starters, Reversing and Two Speed. The MPS-3000-C includes twenty dry optically isolated logic inputs that are used to enable different types of control.



### How To Order

Example:

MPS-3000

P

Relay Type

P - Motor Protection Relay  
C - Motor Protection Controller

V

Construction

V - Vertical  
H - Horizontal

1P

Thermal Sensor

1P - 10 RTD Platinum  
1C - 10 RTD Copper  
TP - 4 Thermistors+ 6 RTD (Pt100)  
TC - 4 Thermistors+ 6 RTD (Copper)

2

Control Voltage

2 - 110-230VAC  
2S - 110-230V AC/DC w/ separate AUX  
3 - 19-60VDC

3P

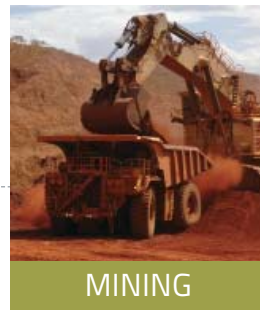
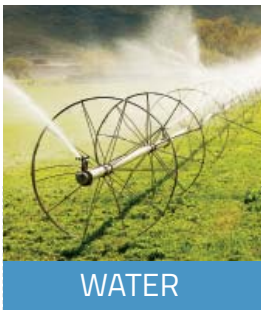
Options

2- Trip on disconnected RTD  
M- Modbus  
P- Profibus

Model	Unit Dimensions (mm)			Weight (kg)
	H	W	D	
Vertical	310	134	140	3.1
Horizon	140	310	134	



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For More Information

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