

# Motor Protection Selector Guide



Features

Device

MM200

MM300

Motor Protection

Protection & Control			
Thermal Model	49	•	•
RTD Biasing	49RTD		•
Current Unbalance Biasing		•	•
Custom Overload Curves			
Voltage Dependant Overload Curves			
Jogging Start / Starts-Per-Hour	66		•
Incomplete Sequence	48	•	•
Reduced Voltage Starting	19		•
Backspin Detection			•
Two Speed Motor			•
Emergency Restart			•
Jam / Stall	51R	•	•
IOC, Phase, Ground, Sensitive Grnd, Neutral	50P/G/SG/N	G	G
TOC, Phase, Ground, Sensitive Grnd	51P/G/SG/		G
Differential	87M		
Current Directional, Phase, Ground, Neutral	67P/G/N		
Current Unbalance	46	•	•
Undercurrent / Underpower	37	•	•
Phase, Auxiliary, Neutral Overvoltage	59P/N/X		P
Phase, Auxiliary Undervoltage	27P/X	X	P/X
Negative Sequence Overvoltage	59_2		
Voltage Transformer Fuse Failure	VTFF		•
Phase Reversal	47		•
Under / Overfrequency	81U/O		
Reverse Power	32R		
Power Factor	55		
RTD Overtemperature	49		•
Remote RTD (RRTD)	49		
Breaker Failure	50BF		
Automation			
Contact Inputs (max)		7 DC/6 AC	30
Contact Outputs (max)		3	18
Analog Inputs (max)			
Analog Outputs (max)			
RTD Inputs (max)			6
Thermistor Input		•	•
Programmable Logic			•
Trip / Close Coil Supervision			
Digital Counters		•	•
Timers			•
Undervoltage Auto-restart			•
Monitoring & Metering			
Current		•	•
Voltage			•
Frequency			•
Power - Real			•
Power - Apparent / Reactive			•
Power Factor			•
Demand - Current, MW, MVA, Mvar			
Energy			•
Temperature			•
Event Recorder (number of events)			256
Oscillography (max samples per cycle)			32
Data logger			•
Motor Learned Information		•	•
Thermal Capacity Used		•	•
Motor Start Data Logger			
Motor Start / Stop Health Report			
Communications			
RS232 Serial Communications		•	•
RS485 Serial Communications		•	•
Ethernet Communications			•
Fiber Optic Ethernet			
Modbus protocol		•	•
DeviceNet protocol		•	•
Profibus protocol		•	•
DNP 3.0 protocol			
IEC61870-5-105 protocol			
IEC61850 protocol			
Peer-to-Peer Communications (GSSE/GOOSE)			
Simple network Timesync protocol			•
IRIG-B input			
Process Bus (IEC 61850-9-2)			

