

protection for low voltage motors

KEY BENEFITS

- Full-featured protection for low voltage AC motors
- Advanced automation capabilities for providing customized protection and integrated process control
- Advanced FlexLogic™ reduces requirement for local PLC's
- Reduced installation space requirements through integration of multiple devices including protection, control functions, pushbuttons, status LEDs and communication interfaces
- Application flexibility with multiple I/O options and programmable logic options (FlexLogic™)
- Enhanced troubleshooting tools including sequence of event records and waveform capture
- Powerful communications including Serial, Ethernet, Profibus, and DeviceNet protocols
- Small form factor and remote display options designed to fit in MCC buckets

APPLICATIONS

- Low Voltage three phase AC motors
- MCC or stand alone panel mount applications
- Reversing and Reduced Voltage applications
- Motor applications requiring advanced Automation or Control such as conveyor systems or well recovery pumps
- IEC or NEMA class motors

FEATURES

Protection and Control

- Enhanced Thermal Modeling
- Mechanical Jam / Stalled Rotor
- Undercurrent
- Underpower
- Acceleration Time
- Current Unbalance
- Ground Fault
- Sensitive Ground Fault
- Phase Overvoltage / Undervoltage
- Auxiliary Undervoltage
- Phase Reversal
- VT Fuse Failure
- Thermistor
- RTD Overtemperature

Automation

- Programmable FlexlogicTM option
- Starter Control
- Process Interlocks
- Programmable inputs and outputs
- Undervoltage Auto-restart

Metering & Monitoring

- Metering current, voltage, power, energy, frequency, RTD, Thermistor
- Oscillography analog values at 32 samples/cycle and digital states
- Event Recorder Up to 256 time tagged events with 1ms res.
- Advanced device health diagnostics

Communications

- Networking Interfaces Two Wire RS485, RJ45 Ethernet
- Multiple Protocols (Modbus RTU, Modbus TCP/IP, Internally powered Profibus, ODVA compliant DeviceNet)
- Programming Ports USB, RS485
- Network Time Protocol (when ordered with Ethernet)

User Interface

- Control panel with 12 status LED's, Motor Control and function keys
- Color HMI Display featuring a full color graphical display, Motor and system status LED's, USB programming port and motor control keys.

EnerVista™ Software

- State of the art software for configuration and commissioning Multilin products
- Graphical Logic Designer and Logic Monitor to simplify designing and testing procedures
- Document and software archiving toolset to ensure reference material and device utilities are up-to-date



Protection and Control

The MM300 is a digital motor protection and control system, designed for Low Voltage motor applications. Flexible and powerful, the MM300's protection can be scaled to the specific requirements of your system.

Motor Thermal Model

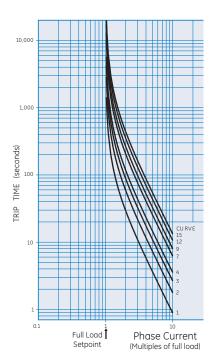
To provide optimal protection and maximize run time, the MM300 employs an advanced thermal model, consisting of six key elements:

- Overload Curves
- Unbalance Biasing
- Hot/Cold Safe Stall Ratio
- Motor Cooling Time Constants
- · Start Inhibit and Emergency Restart
- RTD Biasing (Optional)

Overload Curves

The MM300 thermal model can be programmed with one of 15 standard overload curves.

When properly selected to match the motor manufactures thermal damage curves, the MM300 overload curve and Overload Pickup Level will determine the thermal capacity accumulated within the motor.



15 Standard Curves available in the MM300)

Unbalance (Negative Sequence) Biasing

Negative sequence current, which causes additional rotor heating, is not accounted for in the thermal limit curves provided by the manufacturer. The MM300 measures current unbalance as a ratio of negative to positive sequence current. The thermal model is then biased to reflect the

additional rotor heating. A programmable K factor setting allows the amount of derating to be adjusted.

Hot / Cold Safe Stall Ratio

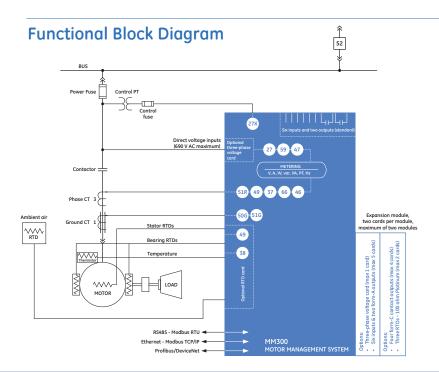
This ratio defines the steady state level of thermal capacity used (TCU) by the motor. This level corresponds to normal operating temperature of a fully loaded motor and will be adjusted proportionally if the motor load is lower then rated.

Motor Cool Time Constants

When the MM300 detects that the motor is running at a load lower then the overload pickup setpoint or the motor is stopped, it will start reducing the TCU value exponentially, based on the programmed cool time constants. As cooling occurs at different rates for stopped and running motors, two separate constants are used.

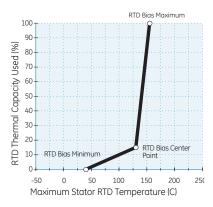
RTD Biasing

The Thermal Model relies solely on measured current to determine motor heating, assuming an ambient temperature of 40°C and normal motor cooling. The actual motor temperature will increase due to abnormally high ambient temperatures or if the motor cooling systems have failed. RTD Biasing enhances the motor thermal model by calculating the thermal capacity used based on available Stator RTD temperatures.



ANSI Device Numbers & Functions

Device Number	Function
27AUX	Undervoltage - Auxiliary Input
27	Undervoltage - Three Phase
37	Undercurrent/Underpower
38	Bearing Temperature RTD
46	Current Unbalance
47	Voltage Phase Reversal
49	Thermal Overload
50G	Ground Instantaneous Overcurrent
51G	Ground Time Overcurrent
51R	Locked/Stalled Rotor/Mechanical Jam
59	Overvoltage - Three Phase
66	Starts/Hour & Time Between Starts



RTD Biasing curve

RTD Biasing does not replace the TCU calculated using the motor current. It provides a second and independent measure of thermal capacity used. Based on a programmable curve, the MM300 will calculate the TCU at any given temperature. This TCU is then compared to that of the thermal model, and the larger of the two will be used.

To protect against faulty stator RTD's, a TCU of 100% based on RTD Biasing will not cause a trip to be issued unless the motor current has exceeded the Overload Pickup Level.

Motor Start Supervision

Motor Start Supervision consists of the following features: Time-Between-Starts, Start-per-Hour, Restart Time.

These elements guard the motor against excessive starting duty, which is normally defined by motor manufacturer in addition to the thermal damage curves.

Mechanical Jam and Acceleration Time

These two elements are used to prevent motor damage during abnormal operating conditions such as driven load jams and excessively long acceleration times

Ground Fault

This function is designed to protect motors against phase to ground faults. The MM300 comes with two separate ground CT inputs intended for one of two different ground protection:

- Core balance (Zero sequence).
- Residual

Voltage Protection

The MM300 comes standard with a single phase voltage input, providing single phase underpower, auxiliary undervoltage and optional undervoltage auto-restart functionality.

Optional 3 phase voltage inputs offer the additional following protection elements:

- Undervoltage
- Overvoltage
- Phase Reversal
- Three Phase Underpower
- VT Fuse Failure

Current Unbalance

In addition to Thermal model biasing, current unbalance is available in the MM300 relay as independent element with a built-in single phasing detection algorithm.

Thermistor

A single input from a motor winding thermistor is provided with the MM300. The MM300 can accept both positive temperature coefficient (PTC) and negative temperature coefficient (NTC) sensors. A thermistor level can be selected for both alarm and trip.

Advanced Automation

The MM300's powerful I/O and programmable flexlogic options offer advanced automation control, reducing the need for additional programmable controllers or discrete control relays.

FlexLogic™

The MM300 optionally includes a control logic engine called FlexLogic™. This provides the ability of creating customized protection and control schemes thereby minimizing the need and the associated costs, of auxiliary components and wiring. Using FlexLogic™, the MM300 can be configured to specify what actions will be taken based on the status of protection or control elements, as well as inputs driven by connected sensors and equipment.

Scalable Hardware

The MM300 is available with a multitude of I/O configurations to suit most application needs. The expandable modular design allows for easy configuration and future upgrades.

- Up to 30 digital inputs (voltage rating up to 300V) and up to 18 digital outputs are available and can be used to monitor and control a wide range of auxiliary equipment
- Types of digital outputs include triprated Form-A and Form-C

Monitoring and Metering

The MM300 includes high accuracy metering for all AC signals. Voltage, current, power metering, and temperature all available options. Current and voltage parameters are available as total RMS magnitude and angle.

Fault and Disturbance Recording

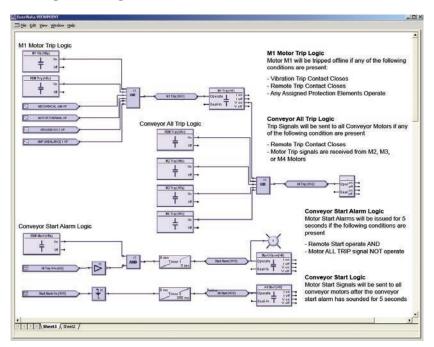
The advanced disturbance diagnostic features within the MM300 can significantly reduce the time needed for troubleshooting power system events and reconstruction. Recording functions include:

- Sequence of Event Recorder (SOE)
- 256 time stamped events
- Optional enhanced diagnostics with:
- Waveform capture with up to 10 Analog Channels *
- Data Logger with 10 channel RMS recorder

Advanced Device Health Diagnostics

The MM300 performs comprehensive device health diagnostic tests during startup and continuously at runtime to test its own major functions and critical hardware. These diagnostic tests monitor for conditions that could impact the MM300's performance, evaluate the criticality of this impact and present device status via SCADA communications and front panel display. Providing continuous monitoring and early detection of possible issues helps improve system availability by employing predictive maintenance

FlexLogic[™] Designer



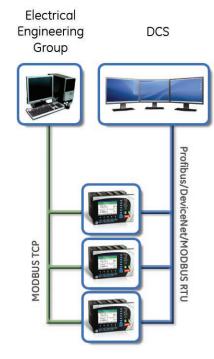
FlexlogicTM and additional I/O options allow the MM300 to replace local programmable controllers in LV applications, like conveyor belts as in this example

Communications

The MM300 utilizes the most advanced communications technologies available today making it the easiest and most flexible motor protection relay to use and integrate into new and existing infrastructures. Multiple communication ports and protocols allow control and easy access to information from the MM300. All communication ports are capable of communication simultaneously.

The MM300 supports the most popular industry standard protocols enabling easy, direct integration into HMI and electrical SCADA systems. Modbus RTU is provided standard with a RS485 networking port. The following optional protocols and communication ports are available

- Fieldbus Protocol with dedicated port.
 - ODVA Compliant DeviceNet
 - Internally powered Profibus
- Modbus TCP/IP with RJ45 10/100baseT Ethernet port



MM300 Dual Architecture Communication

Profibus DP

Providing a high degree of communication flexibility, the MM300 supports both Profibus DP-V0 and DP-V1. Profibus DP-V0 provides high-speed cyclic data exchange between distributed field devices and the Profibus master. In addition to the high-speed cyclic data communication with DP-V0, DP-V1 provides communication of acyclic data information between the slaves and the engineering workstation, which allows for independent diagnosing and fine-tuning of each slave on the network.

Rapid Device Replacement

The MM300 supports Rapid Device Replacement, which is compatible with DeviceNet scanners that use Automatic Device Replacement (ADR) functionality. When Rapid Device Replacement is used in DeviceNet networks, this allows rapid change of MM300 devices with minimum process interruption.

When using Rapid Device Replacement, the MM300 can be replaced without the need to manually configure settings. The DeviceNet scanner will automatically recognize a new device and download the key protection, control and communication settings from the original MM300, reducing process downtime and manual setting file configuration.

EnerVista™ Software

The EnerVista™ Suite is an industry-leading set of software programs that simplifies every aspect of using the MM300 relay. The EnerVista™ suite provides all the tools to monitor the status of the protected asset, maintain the relay, and integrate information measured by the MM300 into DCS or SCADA monitoring systems. Convenient COMTRADE and Sequence of Events viewers are an integral part of the MM300 Setup software included with every MM300 to carry out postmortem event analysis to ensure proper protection system operation.

EnerVista™ Launchpad

EnerVista™ Launchpad is a powerful software package that provides users with all of the setup and support tools needed for configuring and maintaining Multilin products. The setup software within

Launchpad allows configuring devices in real-time by communicating using serial, Ethernet, or modem connections, or offline by creating setting files to be sent to devices at a later time.

Included in Launchpad is a document archiving and management system that ensures critical documentation is up-to-date and available when needed. Documents made available include:

- Manuals
- Application Notes
- Guideform Specifications
- Brochures
- · Wiring Diagrams
- FAQs
- Service Bulletins

Viewpoint Monitoring

Viewpoint Monitoring is a simple-to-use and full-featured monitoring and data recording software package for small systems. Viewpoint Monitoring provides a complete HMI package with the following functionality:

- Plug & Play Device Monitoring
- System Single-Line Monitoring & Control
- Annunciator Alarm Screens
- Trending Reports
- Automatic Event Retrieval
- Automatic Waveform Retrieval

Viewpoint Engineer

Viewpoint Engineer is a set of powerful tools that will allow the configuration and testing of MM300 relays at a system level in an easy-to-use graphical drag-and-drop environment. Viewpoint Engineer provides the following configuration and commissioning utilities:

- Graphical Logic Designer
- Graphical Logic Monitor

Viewpoint Maintenance

Viewpoint Maintenance provides tools that will create reports on the operating status of the relay, simplify the steps to download fault and event data, and reduce the work required for cyber-security compliance audits. Tools available in Viewpoint

Maintenance include:

- Settings Security Audit Report
- Device Health Report
- Single Click Fault Data Retrieval

EnerVista™ Integrator

EnerVista™ Integrator is a toolkit that allows seamless integration of Multilin devices into new or existing automation systems. Included in EnerVista™ Integrator is:

- OPC/DDE Server
- Multilin Drivers
- Automatic Event Retrieval
- Automatic Waveform Retrieval

User Interface

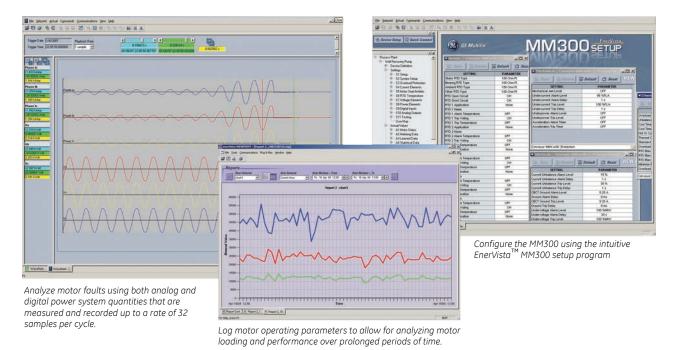
The MM300 can be ordered with or without a control panel or display. If local control or monitoring is required, there are two available options:

1) Control Panel

2) Color HMI Display

Power System Troubleshooting

The MM300 contains many tools and reports that simplify and reduce the amount of time required for troubleshooting power system events.



Technical Specifications

ACCELERATION TIMER I_{av} > I_{cutoff} Dropout $I_{av} < I_{pu}$ or timer expired Time delay 0.5 to 2 Timing accuracy ±500 m AUXILIARY UNDERVOLTAGE 0.5 to 250.0 seconds in steps of 0.1 \pm 500 ms or 1.5% of total time Pickup level 60 to 90% of NCV 1 to 60 seconds in steps of 1 Time delav Timing accuracy ± 500 ms
CURRENT UNBALANCE 4 to 40% in steps of 1 Range Accuracy ±2% Time delay 1 to 60 seconds in steps of 1 s Timing accuracy ±500 ms
FUSE FAILURE (RUNNING STATE ONLY) Timing <500 ms
GROUND FAULT (CBCT OR RESIDUAL) 0.5 to 15.0 A in steps of 0.1 (CBCT); 10 to 100% of FLA in steps of 1% (residual) 0 to 10 s in steps of 0.1 s Trip time delay on Trip time delay on run 0 to 5 s in steps of 0.1 s Alarm time delay 0 to 60 s in steps of 1 s on start/run
Timing accuracy
LOAD INCREASE ± 50 ms or $\pm 0.5\%$ of total time 50 to 150% of FLA in steps of 1% Pickup level Timing accuracy MECHANICAL JAM ±500 ms 1.01 to 4.50 × FLA in steps of 0.01 Pickup level 0.1 to 30.0 seconds in steps of 0.1 ±500 ms Time delay Timing accuracy ±5
PHASE UNDERVOLTAGE Pickup level Time delay 101 to 120% of rated in steps of 1% 1 to 60 seconds in steps of 1 s Timing accuracy
PHASE OVERVOLTAGE +500 ms 60 to 99% of rated in steps of 1 Pickup level 1 to 60 seconds in steps of 1 s Timing accuracy
RTD PROTECTION ±500 ms RTD types three-wire (100 ohm Platinum) -50 to 250°C in steps of 1 Range Hysteresis THERMAL MODEL Standard curve time multiplier 1 to 15 in steps of 1 1.01 to 1.25 in steps of 0.01 Thermal overload pickup Motor full load 0.5 to 1000 A in steps of 0.1 current (FLA) Motor rated 100 to 690 V AC voltage Elements THERMISTOR trip and alarm PTC (RHOT = 100 to 30 kohms); NTC (RHOT = 100 to 30 kohms) Sensor types UNDERCURRENT Pickup level Time delay UNDERPOWER 1 to 100% of FLA in steps of 1 1 to 60 seconds in steps of 1 1 to 100% of kW in steps of 1 Pickup level Time delay 1 to 60 VOLTAGE PHASE REVERSAL 1 to 60 seconds in steps of 1 ABC or Rev starter Configuration

METERING AND MONITORING EVENT RECORDER

Capacity 256 events Time tag Data storage non-volatile memory

FREQUENCY METERING

40.00 to 70.00 Hz in steps of 0.01 Range POWER METERING

Real power range Apparent power range POWER FACTOR METERING

-2000.0 to 2000.0 kW in steps of 0.1 0.0 to 2500.0 kVA in steps of 0.1

-0.99 to +0.99 in steps of 0.01 Range

CONTROL UNDERVOLTAGE RESTART

Dropout/Pickup 60 to 100% NCV in steps of 1% Short Dip Time 100 to 500 ms or OFF in steps of 10 Medium Dip Time 0.1 to 10.0 s in steps of 0.1 s

Medium Dip Delay 0.2 to 60 s in steps of 0.2 s Long Dip Time 0.5 to 60.0 min or OFF in steps of 0.5

min 1.0 to 1200.0 s in steps of 1.0 s Long Dip Delay ±1 s or ±5% of total time Time Accuracy

USER INTERFACE GRAPHICAL CONTROL PANEL

height 102mm, width 153mm, depth 35mm 3.5-inch colour, 320 by 240 pixels LED Indicators 10 LFDs Start A, Start B, Stop, plus 11 LCD screen display control keys Pushbuttons

USB 2.0 port for laptop computer

INPUTS

CONTROL VOLTAGE INPUT (UNDERVOLTAGE RESTART SOURCE)

External VT 110 to 690 V AC in steps of 10 primary (if used)

Input range 60 to 300 V AC Nominal frequency 50 or 60 Hz Accuracy DIGITAL INPUTS 65 V AC

Fixed pickup Recognition time Current draw at rated voltage

60 mA @ 120 V: 75 mA @ 240 V Momentarily sampled every cycle Input impedence Type External switch opto-isolated inputs wet contact 300 V AC

Maximum input voltage GROUND CURRENT INPUT (50:0.025)

CT primary Nominal frequency Accuracy (CBCT) 0.5 to 15.0 A 50 or 60 Hz ±0.1 A (0.5 to 3.99 A) ±0.2 A (4.0 A to 15 A)

PHASE CURRENT INPUTS (INCLUDING RESIDUAL GROUND CURRENT)

0.2 to 40 A (8 \times CT), direct connection up to 5 A FLA combined 1 A / 5 A Input type

Frequency 50 or 60 Hz ExtCT: ±2% of reading or ±1% of 8× Accuracy

CTPrimary, whichever is greater
Direct: ±2% of reading or ±0.1 A, whichever is greater Withstand (at 5A nominal)

0.2 s at 100× 1.0 s at 50×

continuous at 3× rated current

INPUTS (CON'T) PHASE VOLTAGE INPUTS (THREE-PHASE VOLTAGE)

Input range 208 to 690 V Nominal frequency

±2% of reading, or ±1 V, whichever Accuracy is greater RTD INPUTS

Sensor type Three-wire RTD (100 ohm Platinum) Sensing current
Accuracy
THERMISTOR INPUTS

Positive temperature coefficient PTC Sensor type

100 to 30000 ohms), negative temperature coefficient NTC (RHOT = 100 to 30000 ohms)

±6% of reading or ±100 ohms, whichever is greater Accuracy

OUTPUTS OUTPUT RELAYS

Configuration electromechanical form-A (IO_C) and form-C (IO D) silver-alloy

Operate time 10 ms Minimum contact 10 mA at 5 V DC

load 300 operations per minute (no load), Maximum switching rate Mechanical life 30 operations per minute (load) 10 000 000 operations

Continuous current

Make and carry 30 A per ANSI C37.90 for 0.2s

OUTPUT RELAY BREAK CAPACITY (FORM-A RELAY)

AC resistive, 120 V AC AC resistive, 240 10 A V AC AC inductive, PF = 2 A 0.4 pilot duty DC resistive, 30 V DC

10 A normally-open, 5 A normally-AC resistive, 240 V AC 10 A normally-open, 8 A normallyclosed AC inductive. PF =

0.4 pilot duty DC resistive. 30 10 A **POWER SUPPLY** POWER SUPPLY

120 to 240 V AC 125 to 250 V DC

60 to 300 V AC (50 and 60 Hz) 84 to 250 V DC

24 to 48 V DC

ALL RANGES 16 W typical, 25 W maximum Power consumption

DEVICENET (COPPER)

Modes ETHERNET (COPPER) slave (125, 250, and 500 kbps) Modes 10/100 MB (auto-detect)

Connector Modbus TCP Protocol

PROFIBUS (COPPER) Modes DP V0 slave, up to 1.5 Mbps RS485 PORT Protocol

USB PORT (GRAPHIC CONTROL PANEL ONLY) Standard Compliant with both USB 2.0 and

specification

TYPE TESTS

Dielectric voltage EN60255-5 withstand: Impulse voltage EN60255-5 withstand: IEC 61000-4-18 / IEC 60255-22-1

Damped Oscillatory: Electrostatic EN61000-4-2 / IEC 60255-22-2 Discharge: EN61000-4-3 / IEC 60255-22-3 RF immunity: Fast Transient EN61000-4-4 / IEC 60255-22-4 Disturbance: Surge Immunity: FN61000-4-5 / IEC 60255-22-5 Conducted RF EN61000-4-6 / IEC 60255-22-6

Immunity: Voltage interruption and IEC 60255-11

Ripple DC: Radiated & CISPR11 /CISPR22/ IEC 60255-25 Conducted

Emissions Sinusoidal Vibration: IEC 60255-21-1 Shock & Bump: IEC 60255-21-2

IEC 61000-4-8 Power magnetic Immunity: Pulse Magnetic IEC 61000-4-9A Immunity: Voltage Dip & interruption: IEC 61000-4-11 IFC 61000-4-12 Damped Oscillatory: Harmonics & IEC 61000-4-13 Interharmonics: Voltage Ripple: IEC 61000-4-17 Ingress Protection: IFC 60529 Environmental IEC 60068-2-1 (Cold):

(Dry heat): Relative Humidity IEC 60068-2-30 Safety: UL508 / UL C22.2-14 / UL1053

TESTING AND CERTIFICATION CERTIFICATION ISO Manufact

Manufactured

under an ISO9001 registered program EN60255-5, EN61010-1, EN50263, CE EN61000-6-2, EN61000-6-4 UL508, UL1053, C22.2.No 14

IFC 60068-2-2

cULus PHYSICAL SPECIFICATIONS
DIMENSIONS

Size

Environmental

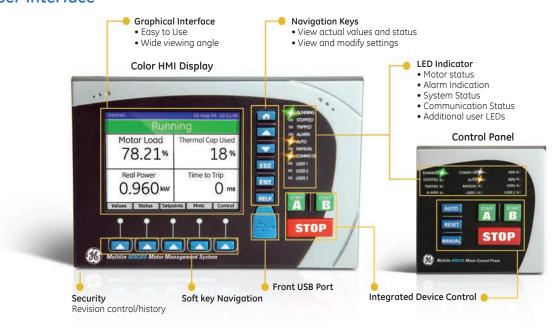
Base: 120 mm (W) \times 90 mm (H) \times 113 mm (D) [+ terminals 10mm] Expansion: 62 mm (W) × 90 mm (H) × 113 mm (D) GCP: 153 mm (W) × 102 mm (H) × 35 mm (D) BCP: 75 mm (W) × 75 mm (H) × 31

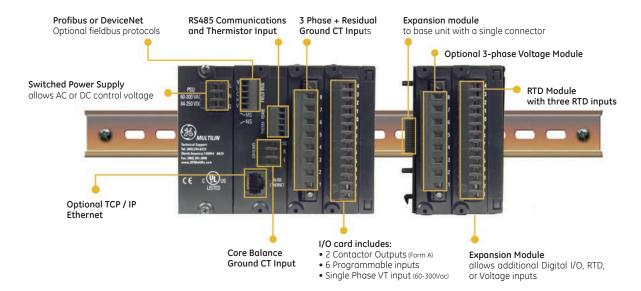
0.75 kg

Weight (Base) ENVIRONMENTAL

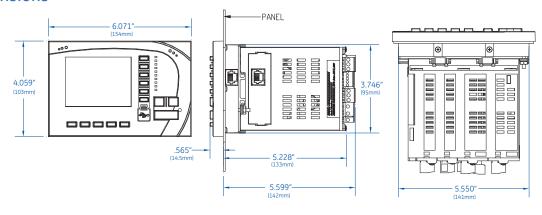
Ambient tem Storage / Shipping: -40C to +90C* temperature: Operating: -20C to +60C*
* based on 1" around base unit Humidity up to 95% non-condensing Polution degree IP rating IP20 (base unit), IP54 (control panel)

User Interface

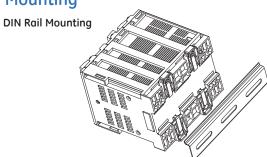




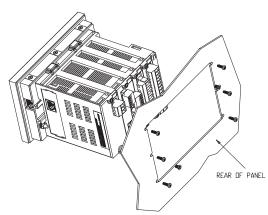
Dimensions



Mounting



Door Mounting



HandHeld Display (HHD)



The Hand Held Display (HHD) provides a rugged local interface for MM300 Motor Protection Systems where a local display is not used in the MCC.

The HHD provides a graphical color local interface to the MM300 Motor Protection Systems allowing local operators to view and change setting files and quickly access relay diagnostic information.

The HHD provides a clear and detailed view of all motor settings, diagnostic information and metering data available in the MM300 allowing local operators to make informed decisions on the motors operation.

Ordering

.	,				Вс	ase I/O		nsion ule 1	Expan Modu	ision ile 2	
MM300	*	*	* *	*	*	*	*	*	*	*	Description
Control Panel	X B G										None Basic Control Panel, no USB Graphical Control Panel inc USB
Language		E C									English (Standard) Chinese *
Power Supply			H L								High (60-300 Vac/80-250Vdc) Low (24-48 Vdc)
Communication			S D P								RS485 Modbus RTU (Standard) RS485 + DeviceNet Slave + 10/100 Modbus TCP RS485 + Profibus DP Slave + 10/100 Modbus TCP
Options				Š 1 2 3							Standard Control and Event Recorder + Undervoltage Auto-restart + Waveform Capture, Data Logger + FlexLogic
I/O Modules					C	A	B G C D E	G C D E	X G C D E	X G C D E	None 3 Phase Current + Thermal O/L, Under Current, Single Phase Under Power 3 Phase Voltage Metering + 3 Phase Under Power, Under / Over Voltage, Phase reversal 3 x RTD : 100PT - max 2 2 x 10A Relay Form A and 6 x Digital Input 60-300ac/ (Standard) - max 5 4 x 10A Relay Form C - max 4 6 x Digital Inputs 20-60 VDC, 2 x 10A Relay Form A (max 4)

Accessories for the MM300

•	MM300 Basic Control Panel	18M9-0004	•	MM300 3ft. RS232-RJ45 Cable	0804-0181
•	MM300 Graphical Control Panel	18M9-0002	•	MM300 3ft. Connector Cable	0804-0169
•	HandHeld Display (HHD)	18M9-0052	•	MM300 6ft. Connector Cable	0804-0172
•	MM300 3ft. USB Cable	0804-0171	•	USB-to-Serial Cable	0100-0001
	MM300 1ft RS232-R I45 Cable	0804-0180			

Software for the MM300

Viewpoint Engineer
 Viewpoint Maintenance
 Viewpoint Monitoring
 VP-1

Visit www.GEMultilin.com/MM300 to:



- View Guideform specifications
- Download the instruction manual
- Review applications Notes and support documents
- Buy a MM300 online
- View the MM300 brochure