P4A/139/239 to **339** Replacement

Upgrade your 169/269 Motor Protection System with the 339 Motor Protection System

Similar Protection Features with Newer, More Advanced Hardware, and Feature Set

KEY BENEFITS

- Enhanced Thermal Model including RTD and current unbalance biasing providing complete motor protection
- Detailed Motor Health Report providing critical motor data simplifying motor analysis
- Increase process uptime by trouble shooting problems faster with time stamped event reports, waveform capture, motor start and motor trending
- Increase security and reduce potential system risks with the Security Audit Trail capturing setting and command changes
- Powerful communication capabilities allowing seamless integration into most communication architectures

- Easy access to information via multiple communication network options including USB, Serial, Fiber & copper Ethernet
- Eliminate FT switches, needed for testing with the unique draw-out construction
- Reduced wiring with support for remote I/O and RTD's
- Reduce setup and configuration time with the Simplified Motor Setup screen
- Flex curves, and multiple settings group

APPLICATIONS

- Small to Medium sized Medium Voltage AC Motors
- Protection of pumps, conveyors, fans, compressors, etc.
- Applications requiring fast and secure communications

- Harsh environments requiring protection against corrosive chemicals and humid environments

FEATURES

Protection and Control

- Thermal model biased with RTD and negative sequence current feedback
- Phase and ground TOC and IOC
- Start supervision and inhibit
- Mechanical Jam
- Current Unbalance
- Current Phase Reversal
- Acceleration Time
- Undercurrent / Underpower
- Starts per Hour
- Two setting groups

Enervista™ Software

- Enervista™ Software- an industry-leading suite of software tools that simplifies every aspect of working with GE Multilin devices.
- Simplified motor setting configurator

Metering & Monitoring

- Current Metering
- RTD Temperature
- Event Recorder: 256 events with 1ms time stamping
- Oscillography with 32 samples per cycle and digital states
- IRIG-B clock synchronization
- Motor health diagnostics
- Security audit trail

User Interface

- 4X20 character LCD display
- Control panel with 12 LED indicators
- Front USB and rear serial, Ethernet and Fiber ports
- Multiple Protocols:
  IEC 61850 GOOSE,
  MODBUS TCP/IP, MODBUS RTU,
  DNP 3.0, IEC60870-5-104, IEC60870-5-103,
  Profibus, DeviceNet

(GE) Multilin

User Interface

IN SERVICE: This indicator will be on continuously lit if the relay is functioning normally and no major self-test errors have been detected.

Trouble: Trouble indicator LED will be RED if there is a problem with the relay.

SETPOINT GROUP 1, 2: These indicators flash when the corresponding group is selected for editing and/or display; they are continuously on if the corresponding group is providing settings for the protection elements.

Running: Indicates that the motor is running in normal operation
Stopped: Indicates that the motor is stopped
Starting: Indicates that the motor is in the starting process

The display messages are organized into Main Menus, Pages, and Sub-pages.

There are four main menus labeled Actual Values, Quick Setup, Setpoints, and Maintenance. Pressing the MENU key followed by the MESSAGE key scrolls through the four Main Menu Headers.

TRIP: Indicates that the relay has tripped the motor offline based on predefined programmed conditions.

ALARM: Indicates that the motor is currently operating in an alarm condition and may proceed to a trip condition if not addressed.

MAINTENANCE: Environmental alarms such as ambient temperature alarm.

A ten button keypad allows user access to easy relay interrogation and change of settings.

Dimensions

7.93"
201.51mm

6.62"
168.2mm

3.96"
100.6mm

1.73"
43.8mm

7.89"
200.4mm

6.82"
173.2mm

Upgrades & Replacements