



## 269 to 369 Replacement

### Replace the 269 Motor Management Relay with the 369 Motor Protection System

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

## KEY BENEFITS

Take advantage of the following additional values you obtain by upgrading to the 369 Motor Management System:

- Same dimensions and cut-out 269 Plus relays
- Unique and advanced protection features - Back-spin detection, advanced thermal model including multiple RTD inputs for stator thermal protection
- Complete asset monitoring - stator, bearing & ambient temperature, optional full metering including demand & energy
- Reduce troubleshooting time and maintenance costs -Event reports, waveform capture, data logger
- Multiple communication protocols - Modbus RTU, Profibus, Device Net
- Optional embedded Ethernet and Profibus Ports.
- Flash memory for product field upgrade
- New improved conformal coating for harsh (chemical) environments
- Suitable for hazardous locations - Underwriters Laboratory certification for Class 1 Division 2 applications

## NEW APPLICATIONS

- "Down Hole" pump applications

## FEATURES

- Incorporates protection, control and metering in one platform
- Local and remote user interfaces
- Diagnostic features - event recording, oscillography and data logging

### Additional Protection and Control Functions

- Undervoltage, overvoltage
- Underfrequency

### Inputs and Outputs

- 12 programmable RTD inputs
- Assignable digital inputs
- 4 programmable analog outputs

**Note:** For more details on the 369 Motor Management System, visit GE Multilin's web site at [www.GEMultilin.com](http://www.GEMultilin.com) where you can download the product brochure, installation and instruction manual, and more details about EnerVista suite of setup and monitoring software tools.

### Monitoring and Metering

- Full metering: A V W var VA PF Hz Wh varh demand
- Fault diagnosis
- Event record
- Voltage/frequency/power display (M)
- 4 analog outputs (M)
- Oscillography & Data Logger

### User Interface

- Front Panel 10 LEDs, key pad, and backlit LCD display
- RS232, and RS485 ports - up to 19,200 bps
- Optional embedded Ethernet port - NEW Ethernet port
- Optional Profibus Protocol via dedicated port
- ModBus™ RTU over TCP/IP Protocol with Ethernet port
- Optional Device Net Protocol

## 269 vs 369 Feature Comparison

Description	DEVICE	269-Plus	369-Basic	369+RTD	369+Meter	369+RTD+Meter	369-Full	
Protection	Differential	87	Digital Input	Digital Input	Digital Input	Digital Input	Digital Input	
	Breaker Failure	50BF		•	•	•	•	
	Thermal Model		•	•	•	•	•	
	Custom programmable overload curves	•	•	•	•	•	•	
	IOC, Phase	50P	•	•	•	•	•	
	Multiple IOC Ground	50G-2	•	•	•	•	•	
	IOC, Ground	50G	•	•	•	•	•	
	IOC, Sensitive Ground	50SG	•	•	•	•	•	
	Locked Rotor	48	•	•	•	•	•	
	Jam Protection	51R	•	•	•	•	•	
	Stall Protection		•	•	•	•	•	
	Phase Overvoltage	59P				•	•	
	Phase Undervoltage	27P	Optional			•	•	
	Under/Overfrequency	81U/O				•	•	
	Lockout Functionality	86	Optional	•	•	•	•	
	Jogging	66	•	•	•	•	•	
	Undercurrent/Underpower	37	•			•	•	
	Current Unbalance	46	•	•	•	•	•	
	Stator RTD	49	•			•	•	
	Bearing RTD	38	•			•	•	
	Phase Reversal	47	•			•	•	
	Frequency	81	Optional			•	•	
	Power Factor	55	Optional			•	•	
	Reduced Voltage Start	19		•	•	•	•	
	Incomplete Sequence	48	•	•	•	•	•	
	Speed Switch	14	•	•	•	•	•	
	Reverse Power	32				•	•	
	Reactive Overpower					•	•	
	Remote Start/Stop via Communications			•	•	•	•	
	Back-spin Detection					•	•	
	Back-spin Timer			•	•	•	•	
	Start Inhibit		•	•	•	•	•	
	Emergency Start		•	•	•	•	•	
	Learned motor data		•	•	•	•	•	
	Control	Drawout Construction	Optional					
		Remote Display	Optional	•	•	•	•	•
		Power Supply, CT Inputs	AC/DC 5/1 A	AC/DC 5/1 A	AC/DC 5/1 A	AC/DC 5/1 A	AC/DC 5/1 A	AC/DC 5/1 A
		Self-Test Failure Contact		•	•	•	•	•
		Settings Groups	1	1	1	1	1	1
		Flash Memory		•	•	•	•	•
Contact Inputs		5	5	5	5	5	5	
User-Programmable Digital Inputs			1	1	1	1	1	
Contact Outputs (Fixed)		4	2	2	2	2	2	
Contact Outputs (Programmable)			2	2	2	2	2	
VFD/LCD Display		•	•	•	•	•	•	
User-Definable Displays			•	•	•	•	•	
Keypad		•	•	•	•	•	•	
Breaker Control			•	•	•	•	•	
Digital Counters			•	•	•	•	•	
Analog Outputs		1			4	4	4	
Remote RTDs						•	•	
RTD Inputs		10			12	12	12	
Monitoring/Metering		Power Factor	Optional			•	•	•
		Thermal Capacity Used	•	•	•	•	•	•
	Current - RMS	•	•	•	•	•	•	
	Current - Phasor		•	•	•	•	•	
	Current - Demand		•	•	•	•	•	
	Current - Unbalance	•	•	•	•	•	•	
	Current - Ground Leakage	•	•	•	•	•	•	
	Voltage - RMS	Optional			•	•	•	
	Voltage - Phasor		•	•	•	•	•	
	Power - Apparent, Real, Reactive	Optional			•	•	•	
	MW, MVA, Mvar Demand				•	•	•	
	Energy	Optional			•	•	•	
	Frequency	Optional			•	•	•	
	Temperature	•	•	•	•	•	•	
	Fault Report/Trip Data	•	•	•	•	•	•	
	Event Recorder - Number of Events			250	250	250	250	
	Event Recorder - Time resolution			1ms	1ms	1ms	1ms	
	Oscillography - Cycles			64	64	64	64	
	Sampling Rate	12	16	16	16	16	16	
	Trip Counters	•	•	•	•	•	•	
Data Logger		•	•	•	•	•		
E/M	Operating Temperature Range - Minimum °C	-10	-40	-40	-40	-40	-40	
	Operating Temperature Range - Maximum °C	60	60	60	60	60	60	
	Interface Program	•	•	•	•	•	•	
	RS232 Port		•	•	•	•	•	
	RS485 Port	•	•	•	•	•	•	
	RS422 Port	Optional						
	Communications	Ethernet Communications						•
		Fiber Optic Port						•
		ModBus Protocol	•	•	•	•	•	•
		ModBus User Map		•	•	•	•	•
Profibus Port							•	
Device Net							•	
TCP/IP							•	

Note: See 369 Motor Protection System for complete information.