

The Back-Spin Detection (B) option enables the 369 Relay to detect the flow reversal of a pump motor and enable timely and safe motor restarting. 369 Relay options are available when ordering the relay or as upgrades to the relay in the field. Field upgrades are via an option enabling passcode available from GE Multilin, which is unique to each relay and option.

1.1.2 Ordering

Select the basic model and the desired features from the selection guide below:

Table 1–1:

369	*	*	*	*	*	*	*	
369								Base unit (no RTD)
	HI							50-300 VDC / 60-265 VAC control power
	LO							20-60 VDC / 20-48 VAC control power
		R						Optional 12 RTD inputs (built-in)
		0						No optional RTD inputs
			M					Optional metering package
			B					Optional backspin detection (incl. metering)
			0					No optional metering or backspin detection
				F				Optional Fiber Optic Port
				0				No optional Fiber Optic Port
					E			Optional Modbus/TCP protocol interface
					P			Optional Profibus-DP protocol interface
					P1			Optional Profibus-DPV1 protocol interface
					D			Optional DeviceNet protocol interface
					0			No optional protocol interfaces
						H		Harsh environment option
						0		No Harsh environment option
						E		Enhanced diagnostics with Enhanced faceplate
						0		No Enhanced diagnostics with Basic faceplate



1. **One Analog Output is available with the 369 base model. The other three Analog Outputs can be obtained by purchasing the metering or backspin options.**

The control power (HI or LO) must be specified with all orders. If a feature is not required, a 0 must be placed in the order code. All order codes have 10 digits. The 369 is available in a non-drawout version only.

Examples: 369-HI-R-0-0-0-0-E: 369 with HI voltage control power and 12 RTD inputs, and enhanced diagnostics

369-LO-0-M-0-0-0-E: 369 relay with LO voltage control power and metering option, and enhanced diagnostics

2. **Features available only in Enhanced option (E)**

- Enhanced faceplate with motor status indicators
- Motor Health Report
- Enhanced learned data
- Motor Start Data Logger
- Enhanced event recorder
- Security audit trail events

1.1.3 Accessories

EnerVista 369 Setup software:	Setup and monitoring software provided free with each relay.
RRTD:	Remote RTD Module. Connects to the 369 Relay via a fibre optic or RS485 connection. Allows remote metering and programming for up to 12 RTDs.
F485:	Communications converter between RS232 and RS485 / fibre optic. Interfaces a PC to the relay.
CT:	50, 75, 100, 150, 200, 300, 350, 400, 500, 600, 750, 1000 (1 A or 5 A secondaries)
HGF:	Ground CTs (50:0.025) used for <i>sensitive</i> earth fault detection on high resistance grounded systems.
515:	Blocking and test module. Provides effective trip blocking and relay isolation.
DEMO:	Metal carry case in which 369 is mounted.
FPC15:	Remote faceplate cable, 15'.

1.1.4 Firmware History

Table 1–2: FIRMWARE HISTORY (Sheet 1 of 2)

FIRMWARE REVISION	BRIEF DESCRIPTION OF CHANGE	RELEASE DATE
53CMB110.000	Production Release	June 14, 1999
53CMB111.000	Changes to Backspin Detection algorithm	June 24, 1999
53CMB112.000	Changes to Backspin Detection algorithm	July 2, 1999
53CMB120.000	Capability to work with the Remote RTD module	October 15, 1999
53CMB130.000	Improvements to the Remote RTD communications	January 3, 2000
53CMB140.000	Changes to Backspin Detection algorithm and improved RS232 communications	March 27, 2000
53CMB145.000	Minor firmware changes	June 9, 2000
53CMB160.000	Profibus protocol, waveform capture, phasor display, single analog output, demand power and current, power consumption	October 12, 2000
53CMB161.000	Minor firmware changes	October 19, 2000
53CMB162.000	Minor firmware changes	November 30, 2000
53CMB170.000	Autorestart feature added	February 9, 2001
53CMB180.000	Modbus/TCP feature added	June 15, 2001