

BE1-79M Multiple Shot Reclosing Relay



Overview

A microprocessor-based relay that provides versatility and control in automatic circuit breaker reclosing.

Features

- Ability to resume reclosing sequence if control power is interrupted.
- Individually adjustable time-delayed reclosing attempts.
- Separate high speed pilot reclose input and output are available for transmission reclosing applications.
- Self-monitoring circuitry with alarm output.
- Optional controls limit the duration of reclose command output and the overall reclosing cycle.
- Optional contact inputs can be used to inhibit the reset timer, inhibit all reclose timing, obtain an alarm prior to lockout, or permit a special reclosing sequence.

Benefits

- Program up to four reclosure attempts with contact-selectable reclosing sequences.
- Gain flexibility with individually adjustable time-delayed reclosing attempts.
- Optional outputs provide control for tripping schemes and blocking load tap-changer operation during reclosing sequences.
- Reduced battery load with low burden power supply.
- Easily perform in-case system and device tests using test paddles.

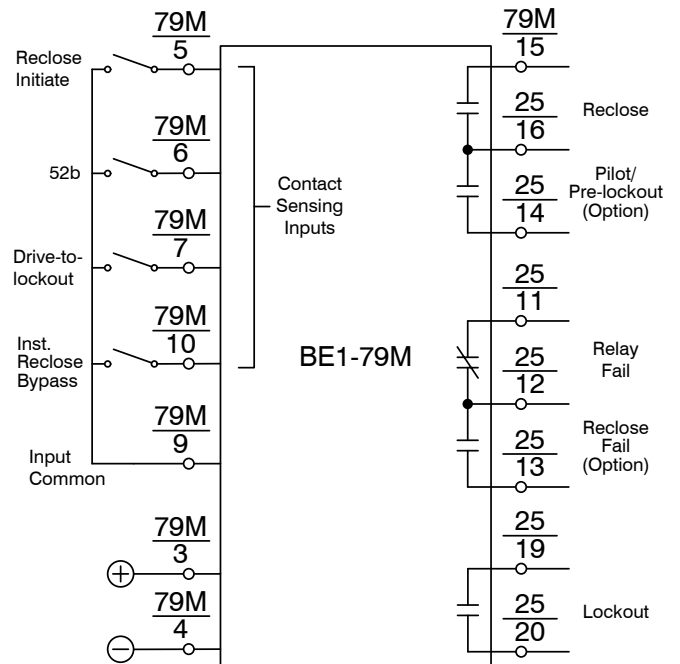


Figure 1 - BE1-79M Connection Diagram for a Typical Application

Specifications

Power Supply (Nominal)

AXX-XXJ-XXXXX:	125 Vdc/120 Vac (5.3 W/13.2 VA)
AXX-XXK-XXXXX:	48 Vdc (5.4 W)
AXX-XXL-XXXXX:	24 Vdc (5.3 W)
AXX-XXY-XXXXX:	48/125 Vdc (5.4 W / 5.3 W)
AXX-XXZ-XXXXX:	250 Vdc/240 Vac (5.4 W/14.1 VA)

Contact Sensing

Minimum Rating: 0.025 A at 250 Vdc
Sensing current is supplied by the relay in styles with isolated sensing. Styles with non isolated sensing require an applied sensing voltage equal to the relay dc power supply input rating.

Output Contacts

Resistive:

120 Vac:	Make, break and carry 7 Aac continuously.
250 Vdc:	Make and carry 30 Adc for 0.2 s, carry 7 Adc continuously, break 0.3 Adc.
500 Vdc:	Make and carry 15 Adc for 0.2 s, carry 7 Adc continuously, break 0.3 Adc.

Inductive:

120 Vac, 125 Vdc, 250 Vdc: Break 0.3 A (L/R=0.04)

Timing

Reclose:	
Range:	0.1 to 99.9 s
Accuracy:	1% of setting or 0.05 s
Second and Third Reclose:	
Range:	1 to 999 s
Accuracy:	1% of setting or 0.5 s
Pilot (Optional):	
Range:	0.03 to 0.99 s
Accuracy:	±0.01 s of setting
Reset:	
Range:	10 to 1,000 s or 1 to 100 s
Accuracy:	1% of setting or 0.5 s
Reclose Fail (Optional):	
Range:	0.1 to 9.9 s
Accuracy:	1% of setting or 0.05 s
Maximum Cycle (Optional):	
Range:	1 to 1,000 s
Accuracy:	1% or 0.5 s

Environmental

Operating Temp:	-40°C to 70°C (-40°F to 158°F)
Storage Temp:	-65°C to 100°C (-85°F to 212°F)

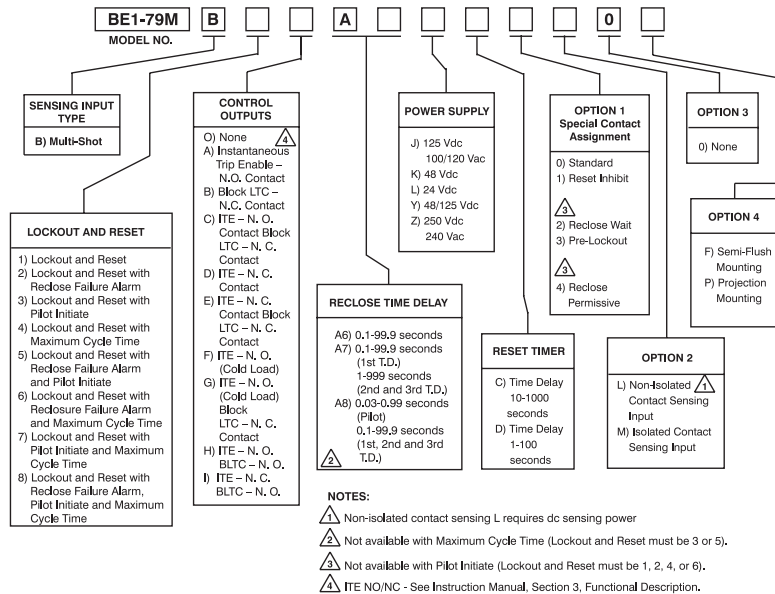
Isolation:	IEC 255-5, IEEE C37.90: 2,000 Vac applied for 1 minute
RFI:	Qualified to IEEE C37.90.2
Surge Withstand:	Qualified to ANSI/IEEE C37.90.1 (Oscillatory and Fast Transient)
Impulse Test:	Qualified to IEC 255-5
Shock:	15 G in three perpendicular planes
Vibration:	2 G in each of three perpendicular planes, 10 to 500 Hz for six, 15-minute sweeps.

Physical

Weight:	13 lb (5.9 kg)
S1 Case Dimensions (WxHxD):	
Double Ended, Semi-Flush Mount:	5.56 x 8.68 x 6.94 inches (141.2 x 220.5 x 176.3 mm)
Double Ended, Projection Mount:	5.56 x 8.68 x 8.14 inches (141.2 x 220.5 x 206.8 mm)

For complete specifications, download the instruction manual at www.basler.com.

Style Chart



Related Products

BE1-FLEX Protection, Automation and Control System

Designed to be configurable for nearly any Power System Application.

Accessories

Cases, Covers, Connectors, Mounting, Misc.

Designed for adaptive customization with your protective device.

Test Plugs

To allow testing of the relay without removing system wiring. Basler Electric/P/N 10095 (order 2 plugs).