

750-P5-G5-HI-A1-R-E

Multilin 750 feeder management relay

It protects, controls, meters and monitors an industrial feeder while recording fault, event and waveform information.

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

GE Multilin 750 feeder protection system

PART

750-P5-G5-HI-A1-R-E

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PRODUCT OVERVIEW

It protects, controls, meters and monitors an industrial feeder while recording fault, event and waveform information.

1

Uses 5 A phase and zero-sequence current inputs

2

Provides feeder protection and breaker control logic

3

Includes eight 0-1 mA transducer outputs

4

Records events and oscillographic waveforms for diagnosis

SYSTEM COMPONENTS

three phase and one zero-sequence current transformer circuits

breaker trip and close circuits

station control-power source

serial supervisory or engineering connection

TECHNICAL NOTE

Isolate CT and breaker-control circuits using the approved protection procedure, preserve the P5/G5 input configuration and HI power source, then prove trip, close, metering and event-recording functions before service.

TECHNICAL DATA

PARAMETER	VALUE
Base relay	750 feeder management relay
Phase current inputs	5 A
Zero-sequence current input	5 A
Control power DC	88-300 V DC
Control power AC	70-265 V AC
AC supply frequency	48-62 Hz
Analog outputs	8 channels, 0-1 mA
Breaker-closed LED	Red
Display execution	Enhanced display

PARAMETER	VALUE
Electromechanical outputs	8
High-speed SCR outputs	1
Contact inputs	14
Serial inputs	20
Front communication	RS-232
Rear communication	Two RS-485/RS-422 ports
Serial data rate	300-19200 bit/s
Event recorder depth	512 events
Waveform sampling	16 samples/cycle

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC200ETM001	Related GE product	View IC200ETM001 page
IC200ALG320	Related GE product	View IC200ALG320 page
IC695ALG600-DD	Related GE product	View IC695ALG600-DD page
IC694PWR321	Related GE product	View IC694PWR321 page
IC693MDL940H	Related GE product	View IC693MDL940H page
IC693MDL930C	Related GE product	View IC693MDL930C page
IC693CHS391N	Related GE product	View IC693CHS391N page
IC693ALG222C	Related GE product	View IC693ALG222C page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Industrial feeder protection

Uses 5 A phase and zero-sequence current inputs

Breaker control and interlocking

Provides feeder protection and breaker control logic

Feeder metering and demand monitoring

Includes eight 0-1 mA transducer outputs

Post-fault event and waveform analysis

Records events and oscillographic waveforms for diagnosis

PRODUCT PRECAUTIONS

- 1 Verify the complete 750-P5-G5-HI-A1-R-E marking and its documented GE Multilin 750 feeder protection system position before field work.
- 2 Place the connected equipment in the approved maintenance state before removing 750-P5-G5-HI-A1-R-E.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at 750-P5-G5-HI-A1-R-E.
- 4 Record the installed connectors, terminals, jumpers and channel or node assignments before disconnection.
- 5 Use ESD controls and protect keyed interfaces, edge connectors and exposed electronic assemblies.
- 6 Restore only the approved GE Multilin 750 feeder protection system hardware arrangement and configuration after replacement.
- 7 Energize 750-P5-G5-HI-A1-R-E in the documented sequence and review local, host and network diagnostics.
- 8 Prove the intended controlled function and retain the final acceptance record before production release.

ENGINEER FAQ

Q1 Does 750-P5-G5-HI-A1-R-E match three phase and one zero-sequence current transformer circuits in a Industrial feeder protection installation?

Verify the complete 750-P5-G5-HI-A1-R-E marking, the documented GE Multilin 750 feeder protection system position and the installed three phase and one zero-sequence current transformer circuits before fitting the assembly.

Q3 Which GE Multilin 750 feeder protection system records should be captured before removing 750-P5-G5-HI-A1-R-E?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 750-P5-G5-HI-A1-R-E before disconnection.

Q5 Which breaker trip and close circuits condition should be checked when 750-P5-G5-HI-A1-R-E reports an abnormal state?

Check the breaker trip and close circuits supply, seating and connection first, then compare channel diagnostics with the recorded 750-P5-G5-HI-A1-R-E baseline.

Q7 What maintenance evidence is required after 750-P5-G5-HI-A1-R-E is used for Feeder metering and demand monitoring?

Retain the nameplate record, corrective action, final diagnostics and a controlled feeder metering and demand monitoring functional-test result for 750-P5-G5-HI-A1-R-E.

Q2 How should 750-P5-G5-HI-A1-R-E be wired when it must uses 5 a phase and zero-sequence current inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 750-P5-G5-HI-A1-R-E; then continuity-test the affected path.

Q4 What controlled test confirms that 750-P5-G5-HI-A1-R-E can provides feeder protection and breaker control logic?

Apply the approved field or simulated stimulus, observe the GE Multilin 750 feeder protection system indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 750-P5-G5-HI-A1-R-E be moved directly into Breaker control and interlocking without validating serial supervisory or engineering connection?

No. Confirm the serial supervisory or engineering connection, revision, connection scheme and GE Multilin 750 feeder protection system configuration before transferring 750-P5-G5-HI-A1-R-E to that duty.

Q8 How should 750-P5-G5-HI-A1-R-E be returned to service in Post-fault event and waveform analysis?

Restore power under control, verify includes eight 0-1 ma transducer outputs, exercise the intended signal path and release 750-P5-G5-HI-A1-R-E only after the GE Multilin 750 feeder protection system remains in its approved operating state.

SOURCE GE Multilin 750/760 Feeder Management Relay documentation | GER-4042; 750/760 brochure

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