239-RTD-AN

Exact-identity installation and commissioning guide

PRODUCT SCOPE

GE 239-RTD-AN is a Multilin 239 motor protection relay configured with three programmable RTD inputs and one isolated analog output. The relay combines motor thermal, current, ground-fault and process supervision with metering, event records and serial communication.

Verified installation basis

Product family	Multilin 239 Motor Protection System
Order code	239-RTD-AN
Protected equipment	Three-phase AC motors and associated mechanical equipment
RTD option	3 programmable stator or bearing RTD inputs
Supported RTD types	100 ohm platinum, 120 ohm nickel, 100 ohm nickel and 10 ohm copper
Analog-output option	One isolated output selectable as 0-1 mA, 0-20 mA or 4-20 mA
Analog-output sources	Thermal capacity, percent full load, phase current or RTD temperature

Verified related ApterPower product pages

General Electric 469-P5-HI-A20-E

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

Pre-work control

Record the installed system before any disconnection

Required checks

- Record the complete GE 239-RTD-AN order code, serial record and panel position.
- Place the motor, starter or breaker and control circuits in the approved maintenance state.
- Short and isolate energized CT secondary circuits with the approved test facilities before disconnection.
- Back up CT ratios, full-load current, thermal model, trip logic, communications and analog scaling.
- Identify all three RTDs, their sensor types, locations and two- or three-wire terminations.
- Verify the installed control-power version and every relay-output circuit before energization.

HOLD POINT

Confirm the complete GE 239-RTD-AN order code, control-power version, CT inputs, RTD wiring and approved motor-protection settings before installation.

Evidence to retain

- Complete product and installed-unit marking.
- Approved project, wiring and cabinet records.
- As-found connector, cable, address and diagnostic state.
- Acceptance plan and final results.

Verified related ApterPower product pages

General Electric UR8FH

General Electric UR9GH

Installation sequence

Use the approved manufacturer procedure and site work controls

1 IDENTIFY

Record the complete GE 239-RTD-AN order code, serial record and panel position.

2 ISOLATE

Place the motor, starter or breaker and control circuits in the approved maintenance state.

3 RECORD

Short and isolate energized CT secondary circuits with the approved test facilities before disconnection.

4 VERIFY

Back up CT ratios, full-load current, thermal model, trip logic, communications and analog scaling.

5 INSTALL

Identify all three RTDs, their sensor types, locations and two- or three-wire terminations.

6 RESTORE

Verify the installed control-power version and every relay-output circuit before energization.

CONFIGURATION CONTROL

The RTD option accepts supported platinum, nickel and copper sensor types, while the AN option can retransmit thermal capacity, motor current or an RTD temperature. Phase-current inputs, ground-current supervision, configurable digital inputs and output relays provide the protection interface to the motor circuit. Before service, retain CT ratios, full-load current, thermal model, RTD type, trip logic, analog scaling and serial settings; final testing must prove each used protection element and its assigned output.

Verified related ApterPower product pages

General Electric IS220PRTDH1A

General Electric IS220PTCCH1A

Commissioning and acceptance

Return each affected function to its approved state

Identity	Record the complete GE 239-RTD-AN order code, serial record and panel position.
Configuration	Verify the installed control-power version and every relay-output circuit before energization.
Physical installation	Perform secondary-injection and resistance checks for each used current, ground and RTD function.
Functional acceptance	Prove trip, alarm, analog-output and communication behavior before returning the motor to service.
Diagnostics	Confirm that no unexplained product, communication or system diagnostic remains.
Release record	Document the final configuration, observed states, test results and responsible technician.

Verified related ApterPower product pages

- General Electric IS200WROBH1A
- General Electric IC695ALG508
- General Electric IC693PTM101A
- General Electric IC695CMX128

Handover record

Traceable evidence for the installed product

Final acceptance

- Identify all three RTDs, their sensor types, locations and two- or three-wire terminations.
- Verify the installed control-power version and every relay-output circuit before energization.
- Perform secondary-injection and resistance checks for each used current, ground and RTD function.
- Prove trip, alarm, analog-output and communication behavior before returning the motor to service.

Manufacturer evidence used

- GE Vernova Multilin 239 Motor Protection System brochure and ordering information.
- GE Vernova 239 product presentation, 239-RTD-AN order-code page.
- GE Vernova 239 legacy product page and motor-protection application tables.

Verified related ApterPower product pages

General Electric IC693CPU363-DL

General Electric IC200MDL940F

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