MIVII1000E00HI00

General Electric / MIV II Digital Voltage Protection Relay

GE MIVII1000E00HI00 is a configurable MIV II voltage protection relay for an engineered power-system protection panel. Its selected input and auxiliary-supply ranges must match the installed sensing and control circuits.

Product identity and system role

The MIV II 1000 execution applies programmable voltage protection to the measured circuit. An engineer sets pickup, delay and output mapping for the protected equipment, then tests the complete trip path as part of the panel commissioning record.

The selected voltage input is the 10–250 V option. The HI auxiliary supply accepts the documented high-range dc or ac supply; these are different circuits and must not be interchanged with the measurement input. Local indications and relay outputs support panel operation and alarm or trip integration.

Front RS-232 is used for service access, while the rear RS-485 port supports a configured Modbus RTU link. Preserve the existing settings, communications address, event records and wiring map during replacement, then verify protection elements and output operation against the approved study.

Verified technical characteristics

Relay family	MIV II
Protection execution	MIV II 1000 voltage functions
Voltage-input option	10–250 V
High-range auxiliary supply	110–250 V dc or 110–230 V ac nominal
Supply operating range	88–300 V dc or 88–264 V ac
Power demand	15 W maximum
Front service interface	RS-232
Rear communication	RS-485, Modbus RTU
Local display	Two-line, 16-character LCD
Output relays	Six Form-C contacts

Engineering context

Generator and transformer panels

Apply voltage protection where the approved single-line and relay-setting study call for MIV II 1000 functions.

Bus voltage supervision

Monitor the designated sensing circuit and coordinate alarm or trip thresholds with other protection devices.

SCADA integration

Expose configured indications and events over the documented rear RS-485 Modbus RTU interface.

Existing-relay replacement

Use the same voltage-input and auxiliary-supply selections, and restore the validated settings file and terminal mapping.

Configuration and verification

Separate the two voltage circuits: Trace the voltage-transformer input separately from the relay auxiliary supply before wiring.

Capture settings: Save element thresholds, timing, logic, output assignments and communications parameters.

Check transformer polarity: Confirm the installed measurement wiring and burden under the protection drawing.

Inspect trip contacts: Verify contact ratings and the actual alarm or trip circuit before energization.

Test the communications path: Confirm rear-port wiring, address and Modbus polling after the change.

Prove the protection chain: Use approved secondary injection to check pickup, delay, indication and the intended output contacts.

Selected engineering questions

Which protection-setting records should accompany MIVII1000E00HI00 replacement?
Retain the approved settings file, coordination study, input ratio, logic map and as-found test report.

How can a false undervoltage indication on MIVII1000E00HI00 be isolated?
Compare the transformer secondary voltage at the input terminals with the configured nominal value, wiring polarity and element timing.

What distinguishes the HI supply selection on MIVII1000E00HI00 from the voltage input?
HI identifies the relay auxiliary power option; the separate 10–250 V selection applies to the measured voltage input.

What should be checked if MIVII1000E00HI00 does not communicate over Modbus RTU?
Check the rear RS-485 pair, termination, node address, serial format and host polling before changing relay hardware.

How should the output contacts on MIVII1000E00HI00 be proved?
Use the site-approved test plan to verify each assigned alarm or trip contact and the downstream circuit response.

Can an MIV II frequency-only configuration replace MIVII1000E00HI00?
Only after the full order code, sensing inputs, protection functions and approved settings are confirmed compatible.

How are event records on MIVII1000E00HI00 useful during commissioning?
Compare timestamps and element actions with the applied test sequence and panel indications.

What should be documented after secondary injection of MIVII1000E00HI00?
Record applied voltage, pickup and reset points, measured delays, output actions and final settings revision.

Source and application boundary

GE Vernova MIV II Digital Voltage and Frequency Relay brochure, model-selection table and technical data.

The listed voltage-input and supply ranges are decoded from the MIV II 1000/E/0/HI order positions; the installed wiring, configuration and remaining suffixes must be matched to the offered nameplate.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

General Electric DS200CTBAG1ADD	General Electric IS215UCVEH2AE
General Electric IC600YB842	General Electric IC693CHS391N
General Electric IS220YDIAS1AK	

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Send the complete model and installed-system details when requesting a quotation.