General Electric IS230TNTRH1C

COMPLETE PRODUCT INFORMATION / EXACT-MODEL ENGINEERING FILE

General Electric IS230TNTRH1C is a tmr primary turbine protection module for the GE Mark VIe control platform. The complete marking and installed hardware arrangement must be matched before replacement.

01 Product overview

Hardware mapping	Redundancy	Installation format
IS230TNTRH1C combines 3 PTUR I/O packs with terminal board IS200TTURH1C.	TMR execution for the primary turbine protection path.	DIN-rail Mark VIe module; match the complete IS230TNTRH1C catalog number.

GE lists IS230TNTRH1C as a primary turbine protection module in the Mark VIe I/O catalog mapping. Its documented hardware boundary is 3 PTUR I/O packs with terminal board IS200TTURH1C, using a tmr arrangement on a DIN rail.

The associated component reference is IS230TTURH1C. That mapping is useful for identity review, but the offered item remains IS230TNTRH1C; the catalog numbers must not be shortened or interchanged when the installed module is approved.

Verified technical data

Catalog number	IS230TNTRH1C
Product type	TMR Primary Turbine Protection Module
Control platform	GE Mark VIe
GE notice mapping	No-price-impact catalog number corresponding to IS230TTURH1C
I/O pack redundancy	TMR

Related product references

- General Electric IC695PNC001
- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- Bently Nevada 3300/47
- Bently Nevada 330101-00-28-10-02-CN
- Hirschmann M4-FAST-8-SFP

Engineering record prompts

Nameplate record	Capture the complete marking, visible revision and installed position before removal.
Connector record	Photograph every used connector, cable label, keying feature and shield termination.
Host record	Identify the carrier, rack, drive, chassis or operator station that owns the installed position.

02 Technical data and installed-system relationship

I/O pack family	PTUR
I/O pack quantity	3
Included terminal board	IS200TTURH1C
Functional description	Primary Turbine Protection
Mounting	DIN-rail mount

Engineering interpretation

Complete identity	Use IS230TNTRH1C as one complete reference in the quotation, service record and acceptance file.
Installed position	Record the exact host position and functional ownership within the GE Mark VIe control platform.
Physical execution	Compare artwork, connectors, keying, terminal hardware and orientation with the removed assembly.
Configuration boundary	Preserve the applicable project, address, firmware or hardware-setting record before removal.
Acceptance evidence	Retain initial and as-left diagnostics plus the controlled functional-test result.
Unstated values	Do not assign electrical or compatibility values that are not established by the exact-model evidence.

Controller platform reference

GE Mark VIe control platform. Use the exact installed hardware execution and the approved system record.

Related product references

- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- Bently Nevada 3300/47
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- Hirschmann M4-FAST-8-SFP
- General Electric IC695PNC001
- General Electric IS220PPROH1A

Engineering record prompts

Host record	Identify the carrier, rack, drive, chassis or operator station that owns the installed position.
Configuration record	Archive the applicable project, address, parameter, firmware or hardware-setting evidence.

03 Applications / Compatibility

System position: IS230TNTRH1C is evaluated within the documented GE Mark VIe control platform architecture. Compatibility boundary: Match the complete IS230TNTRH1C marking, mating hardware and installed configuration before replacement.

Mark VIe I/O replacement
Replace the documented DIN-rail module only after matching the complete catalog number and terminal-board execution.

Planned outage maintenance
Capture the installed I/O mapping, pack positions and field wiring before disturbing the assembly.

Controlled commissioning
Restore the approved Mark VIe configuration and prove the exact input, output or protection path.

Spare qualification
Retain catalog number, redundancy, included terminal board and I/O-pack quantity with the spare record.

Product Precautions

Verify the complete catalog number
Check every letter and number against the offered label and the approved Mark VIe hardware record.

Isolate field and control power
Apply the site procedure before touching terminal-board wiring, I/O packs or DIN-rail hardware.

Record pack and board positions
Photograph IONet ports, pack positions, terminal wiring, shields and connector orientation before removal.

Preserve configuration evidence
Archive the controller database, diagnostics and I/O mapping that identify the installed signal path.

Inspect mating hardware
Check terminal-board connectors, I/O-pack seating, field terminals and Ethernet cabling before replacing the assembly.

Prove the exact function
Use an approved signal or protection test and retain as-left diagnostics with the maintenance record.

Additional verified data

Mark VIe I/O-pack Ethernet ports	2 per I/O pack; platform architecture
IONet link	100 MB full-duplex point-to-point; platform architecture
I/O-pack internal elements	Power supply, local processor and data-acquisition board; platform architecture

Related product references

General Electric 531X303MCPBCG1

Bently Nevada 3300/47

Bently Nevada 330101-00-28-10-02-CN

Hirschmann M4-FAST-8-SFP

General Electric IC695PNC001

General Electric IS220PPROH1A

General Electric DS200TBCAG1AAB

General Electric 531X123PCHACG1

04 Technical FAQ

How should IS230TNTRH1C be identified before replacement?	Match the full IS230TNTRH1C label, the tmr execution, PTUR pack count and IS200TTURH1C terminal board against the installed Mark VIe record.
What installed interfaces must be checked for IS230TNTRH1C?	Verify the IS200TTURH1C terminal board, all 3 PTUR pack positions, Ethernet connections and field terminals used by IS230TNTRH1C.
Which configuration values must be preserved before removing IS230TNTRH1C?	Archive the Mark VIe I/O mapping, controller diagnostics and the channel assignments associated with IS230TNTRH1C.
How should the field wiring for IS230TNTRH1C be verified?	Trace every used terminal on IS200TTURH1C to the approved field drawing before reconnecting IS230TNTRH1C.

Lifecycle Status

IS230TNTRH1C catalog record	GEZ-S2029 lists IS230TNTRH1C as the no-price-impact catalog number corresponding to IS230TTURH1C.
Document boundary	The 2015 notice establishes the catalog mapping and hardware composition; it does not confirm the current manufacturing phase.
Service planning	Plan replacement around the tmr PTUR/IS200TTURH1C execution and the installed Mark VIe configuration.

Available Unit Details

Offered reference	General Electric IS230TNTRH1C.
Assembly identity	3 PTUR I/O packs, IS200TTURH1C terminal board, tmr execution, DIN-rail format.
Supply-scope check	Confirm the visible catalog label, installed pack positions, terminal hardware and any separately supplied connectors in the quotation.

Alternative Names

Reference variant	GE IS230TNTRH1C Mark VIe Primary Turbine Protection
Reference variant	IS230TNTRH1C PTUR IS200TTURH1C DIN Rail Module

Related product references

- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- Bently Nevada 3300/47
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- Hirschmann M4-FAST-8-SFP
- General Electric IC695PNC001

05 Technical notes, ordering and enquiry

What should be checked before energizing IS230TNTRH1C?	Confirm pack seating, terminal torque, shield handling, IONet connection and the approved tmr architecture for IS230TNTRH1C.
How can a suspected IS230TNTRH1C fault be separated from an external fault?	Check terminal-board wiring, pack power, IONet status and controller diagnostics before controlled substitution of IS230TNTRH1C.
What proves that IS230TNTRH1C is operating correctly after installation?	A controlled primary turbine protection test must produce the expected field response and clean Mark VIe diagnostics for IS230TNTRH1C.
What should be retained in the handover record for IS230TNTRH1C?	Retain the IS230TNTRH1C label, PTUR/IS200TTURH1C composition, connection photographs, diagnostics and controlled-test result.

Technical notes

Identity control	Use IS230TNTRH1C, not IS230TTURH1C, as the offered catalog number and compare the complete label before installation.
Hardware relationship	The documented assembly uses 3 PTUR I/O packs with IS200TTURH1C; confirm these parts against the available unit.
Commissioning boundary	Restore the approved primary turbine protection mapping, IONet path and controller diagnostics before returning the channel to service.

Ordering checks

Match the complete marking	Compare every token in IS230TNTRH1C with the installed label and the applicable manufacturer document.
Verify the assembly boundary	Confirm the terminal board, I/O pack, connector, carrier or matched-system components that belong with IS230TNTRH1C.

What happens after you enquire

Review the exact reference	Send the complete IS230TNTRH1C marking, installed-system context and required quantity.
Confirm the hardware boundary	Review the offered IS230TNTRH1C assembly, included hardware and matching evidence.
Arrange dispatch	Confirm quantity, destination and the dispatch date in the quotation.

Related product references

- General Electric 531X123PCHACG1
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- General Electric DS200TBCAG1AAB

Discuss the complete IS230TNTRH1C marking with Apter Power.

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Scan the WhatsApp QR to share nameplate and installed-system evidence.