GE IS220TTURH1C

Complete Product Information

GE IS220TTURH1C is a primary turbine protection terminal board for GE Mark VIe primary turbine protection.

01 Protection-circuit identity

Board function	Primary turbine protection termination
Control family	Mark VIe
Protection role	Primary trip interface
Hardware class	Terminal board
Configuration basis	Installed trip drawing
Signal handling	Turbine protection field circuits
Replacement basis	Exact H1C marking and wiring map

02 Functional role and system position

IS220TTURH1C is identified as a primary turbine-protection terminal board for a Mark VIe installation. Its role is to terminate and route installed protection circuits within the approved trip architecture.

The terminal board must be distinguished from the companion turbine-protection I/O pack. Trip voting, speed sensing and relay behavior belong to the complete configured protection system, not the board marking alone.

Before service, place the turbine in the approved maintenance state and record every terminal and trip-circuit assignment. After replacement, prove the protection channels with the site-approved trip-test procedure.

03 Engineering highlights

Protection-circuit termination

Routes installed turbine-protection field circuits within the approved trip architecture.

Architecture boundary

Trip voting and protection logic belong to the complete configured system, not the terminal board alone.

Trip-function proof

Return to service follows the site-approved channel and trip-test procedure.

04 Evidence and applicability boundary

The exact IS220TTURH1C marking is treated as the offered terminal-board identity; no ratings from the PTUR I/O pack or adjacent TTUR revisions are assigned to it.

05 Primary trip-path integration map

Installed-system service

Maintain the exact IS220TTURH1C identity when replacing the fitted primary turbine protection terminal board.

Configuration retention

Preserve application records, channel maps or hardware settings that belong to the installed system.

Controlled troubleshooting

Use the approved system diagnostics to separate module, wiring and companion-hardware faults.

Acceptance testing

Return the system to service only after representative functions match the recorded baseline.

06 Installation and protection controls

Confirm the full marking

Match IS220TTURH1C and every visible revision or assembly identifier.

Preserve the as-found map

Record connectors, terminals, orientation and companion hardware before removal.

Apply the approved isolation

Use the complete system maintenance procedure and prove the required isolation.

Protect the hardware

Use ESD control and prevent mechanical load on connectors or board surfaces.

Restore configuration deliberately

Reapply only the approved installed settings, wiring and application records.

Retain acceptance evidence

Keep label photographs, test results, deviations and responsible sign-off.

07 Technical notes

Installation relationship	IS220TTURH1C belongs to the configured GE Mark VIe primary turbine protection hardware chain; the complete installed relationship governs replacement.
Protection	Follow the approved isolation, ESD and system-specific commissioning procedure before handling IS220TTURH1C.
Technical reference	Exact-model industrial records cross-checked against GE Mark VIe primary turbine-protection architecture. The exact IS220TTURH1C marking is treated as the offered terminal-board identity; no ratings from the PTUR I/O pack or adjacent TTUR revisions are assigned to it.

08 Installed-system decision points

How should the primary trip circuits be identified before replacing IS220TTURH1C?	Record every field-circuit designation, terminal number, trip path and interlock shown on the approved turbine-protection drawing. Maintain the H1C board identity with that wiring map.
What safe-state controls are required before servicing IS220TTURH1C?	Place the turbine in the approved maintenance condition, isolate the documented trip circuits and manage bypasses under the site protection procedure. Do not rely on a controller display alone to establish a safe state.
Why must the H1C suffix be retained for IS220TTURH1C?	The full IS220TTURH1C marking identifies the offered terminal-board variant. Compare the suffix, revision and connector layout; a TTUR base reference does not establish identical protection hardware.

09 Protection restoration and acceptance matrix

Maintenance state	Place the protected equipment in the approved safe condition and control all authorized bypasses. Exact model: IS220TTURH1C.
Trip-path identity	Restore terminals, commons, interlocks and field devices from the approved protection drawing. Exact model: IS220TTURH1C.
Controlled proof	Test one documented path at a time using the approved simulated or maintenance-mode procedure. Exact model: IS220TTURH1C.
Protection release	Remove bypasses, confirm the final protection-ready state and retain responsible sign-off. Exact model: IS220TTURH1C.

10 Published technical data - continuation

Documented platform	GE Mark VIe primary turbine protection
Exact-model boundary	Use the complete marking and every visible revision or assembly identifier.
System-data boundary	The exact IS220TTURH1C marking is treated as the offered terminal-board identity; no ratings from the PTUR I/O pack or adjacent TTUR revisions are assigned to it.

11 Product-specific engineering FAQ

How should the primary trip circuits be identified before replacing IS220TTURH1C?

Record every field-circuit designation, terminal number, trip path and interlock shown on the approved turbine-protection drawing. Maintain the H1C board identity with that wiring map.

What safe-state controls are required before servicing IS220TTURH1C?

Place the turbine in the approved maintenance condition, isolate the documented trip circuits and manage bypasses under the site protection procedure. Do not rely on a controller display alone to establish a safe state.

Why must the H1C suffix be retained for IS220TTURH1C?

The full IS220TTURH1C marking identifies the offered terminal-board variant. Compare the suffix, revision and connector layout; a TTUR base reference does not establish identical protection hardware.

How should trip-circuit wiring be restored on IS220TTURH1C?

Use tagged conductors and before-removal photographs to restore each circuit to its documented terminal. Verify polarity, commons and separation between protection paths before removing any bypass.

How can a field trip-device fault be separated from an IS220TTURH1C fault?

Trace the trip command and feedback through the field device, wiring, terminal point and controller diagnostics using the approved test procedure. Confirm where the state changes before replacing hardware.

What controlled test is appropriate for IS220TTURH1C?

Use the project-approved simulated or maintenance-mode trip test, proving one documented path at a time without creating an unintended turbine trip. Confirm controller indication, output action and reset behavior.

How should bypasses be managed during IS220TTURH1C commissioning?

Record every applied bypass, obtain the required authorization and remove each bypass only after its associated trip path has passed testing. Independently verify the final protection-ready state.

What protection evidence should be retained for IS220TTURH1C?

Keep the complete marking, wiring map, isolation and bypass log, test stimulus, controller indication, field response, reset result and responsible acceptance sign-off.

12 Lifecycle and supply boundary

The current manufacturing and manufacturer-support phase of IS220TTURH1C is unconfirmed. Preserve its exact installed identity when planning service.

Offered reference	GE IS220TTURH1C
Included items	the IS220TTURH1C primary turbine protection terminal board; companion hardware and accessories only when itemized in the quotation
Identity check	Compare the complete marking, revision and connections with available unit photographs and the installed record.

13 Commissioning handover record

Isolation and bypass log	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Trip-path identity	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Test stimulus and indication	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Reset and release approval	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.

14 Enquiry workflow

Review your reference	Send the complete IS220TTURH1C marking, installed-position photographs and required quantity.
Confirm the offer	Confirm the offered revision, condition, included items and documented system fit in the quotation.
Arrange dispatch	Agree quantity, dispatch date and delivery details in the quotation.

15 Related product references

Recommended model	GE IS220PSVOH1B
Recommended model	GE IS200STTCH2A
Recommended model	GE IS230SNAOH2A
Recommended model	GE IS220STAOH2A
Recommended model	GE IS220PTCCH2B

Confirm the complete IS220TTURH1C marking, installed relationship and required quantity with Apter Power.

sales13@apterpower.com | +86 18030235313