General Electric IS200TPROH1CBB

Engineering Installation and Acceptance Guide

Installed work boundary

Accept the H1C terminal form, pack generation, speed-sensor electrical type and selected trip-relay board as a coordinated protection path.

Speed + PT field signals	TPRO / PPRO paths	Selected trip-relay board

01 H1C protection-interface plan

Decision / observation	Action and acceptance evidence
Terminal form	Retain the removable H1C barrier blocks. H2C Euro-style terminals require a separate physical/wiring review.
Pack allocation	Map R, S and T PPRO packs to JR1, JS1 and JT1; map their DC-37 trip-board cables at JX1, JY1 and JZ1.
Protection platform	Use the Mark VIe H#C architecture. The cited guide does not support this terminal form with Mark VI control.
Trip-board selection	Review the selected relay-board model, emergency-stop voltage and approved cable arrangement; TPRO alone does not define the final trip output.

02 Frequency-dependent speed injection

Decision / observation	Action and acceptance evidence
0-2 kHz	Use at least the documented 27 mV peak-to-peak sensitivity condition at the receiving terminal, preserving source type and return.
2-6 / 6-10 kHz	The required peak-to-peak values rise to 50 mV and 100 mV respectively. Account for actual cable attenuation and simulator loading.
10-15 / above 15 kHz	Use the 160 mV and 250 mV sensitivity conditions respectively; frequency within range is insufficient without signal amplitude.
Path comparison	Prove the intended R/S/T input allocation with the approved protection test source before proceeding to physical trip action.

03 PT and powered-sensor separation

Decision / observation	Action and acceptance evidence
PT enable	Check K25A_Enab before treating an absent bus/generator live value as failed hardware.
PT source	Respect the documented synchronization voltage envelope, <3 VA input burden and isolation barrier when applying an authorized PT test.
P24 sources	Account for the ORed pack-power path. One pack off does not establish an isolated sensor circuit; measure the work point.
Active/TTL returns	Use the applicable TPRO wiring arrangement for active sensor signal, P24 and return. Do not copy a passive-pickup connection into a TTL input.

04 Backup-trip release evidence

Decision / observation	Action and acceptance evidence
ID acceptance	Confirm the terminal and relay-board identities after power initialization; an incompatibility alarm requires an arrangement review.
Input evidence	Retain frequency plus amplitude, path allocation, PT enablement and representative measured values.
Trip evidence	Under the authorized turbine-protection test, prove the selected relay-board and physical trip path; input indication alone is insufficient.
Final record	Keep the complete BB revision, H1C terminal form, PPRO generation, relay-board model and restored cable map together.

Technical basis

GE Mark VIe Control Volume II System Hardware Guide, GEH-6721Q; GE Mark VIe IECEx UL 21.0067X Issue 6

Related components and selection comparisons

General Electric IS220PPROH1A	PPROH1A pack family documented for direct mounting on TPROH1C; confirm the installed pack and full hardware revision.

Engineering contact

Discuss the complete unit and installed application with Apter Power.
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