GE IS200EXHSG4A

Exciter High Speed Board

GE IS200EXHSG4A is the EX2100 simplex breaker-mode high-speed terminal board for field-breaker control, pilot-relay outputs, 70 V dc contact feedback, field flashing and de-excitation status conditioning.

Job objective

Replace, install or verify the exact module without changing unrelated wiring, configuration, dimensions, weight or other stored product data.

Safe-work boundary

Identify Match the complete model and every suffix or secondary code.	**Isolate** Apply the plant-approved electrical and process isolation procedure.
Preserve Back up configuration and photograph all connections.	**Control** Use ESD protection and revision-controlled documentation.

Required evidence before work

Nameplate photo; slot/rack record; connector map; project backup where applicable; fault history; approved acceptance procedure.

Model-specific release focus

- G4 simplex breaker-mode EXHS configuration
- 41 close and 41T trip pilot-relay functions
- 53A and 53B field-flashing relay control
- 70 V dc wetted contact-status conditioning

Readiness checklist

Exact identity	GE IS200EXHSG4A matches the work order and physical unit
System position	Rack, slot and functional assignment are recorded
Configuration	Parameters, firmware or project data are backed up when applicable
Connections	Every cable, terminal, jumper and shield is labeled
Condition	Connector, board and packaging condition are inspected
Test plan	Expected states and acceptance evidence are agreed

Interface preparation

EBKP / EMIO	Cabled through the EBKP backplane for control commands and conditioned status
Field breaker	Pilot outputs for 41 close and 41T trip coils
Field flashing	Pilot-relay control for 53A and 53B contactors
EDEX status	Crowbar and de-excitation status conditioning returned to the control

Interface evidence for acceptance

- EBKP / EMIO: Cabled through the EBKP backplane for control commands and conditioned status
- Field breaker: Pilot outputs for 41 close and 41T trip coils
- Field flashing: Pilot-relay control for 53A and 53B contactors
- EDEX status: Crowbar and de-excitation status conditioning returned to the control

03 / INSTALLATION SEQUENCE

Controlled replacement workflow

1	Confirm isolation and absence of hazardous energy
2	Compare old and replacement identities and revisions
3	Photograph and label all connections
4	Remove the existing module using ESD-safe handling
5	Inspect slot, connector, grounding and cooling path
6	Install the exact replacement without forcing connectors
7	Restore cables, jumpers and settings from the controlled record
8	Perform a final visual and continuity check before energization

STOP POINT

Do not energize if the model, slot, connector orientation, grounding, jumper state or documented system assignment is unresolved.

Configuration-control record

- Field-device mode: Breaker mode
- Close relay function: 41 close relay used
- Trip relay function: 41T trip relay used
- Contact wetting supply: 70 V dc from the EX2100 power-supply paths

Staged return to service

Stage	Action	Acceptance
Stage 1	Visual inspection and isolation release	Expected controlled result
Stage 2	Apply control power under observation	Expected controlled result
Stage 3	Confirm module recognition or status	Expected controlled result
Stage 4	Verify communication and affected signal paths	Expected controlled result
Stage 5	Exercise the documented function	Expected controlled result
Stage 6	Archive measured results and as-left configuration	Expected controlled result

Product-specific acceptance focus

1

Confirm both 70 V dc wetting-supply paths and their returns before applying control power.

2

Check EBKP and EMIO cabling for keyed orientation, pin damage and secure seating.

3

Do not test field flashing with the generator field connected unless the approved startup procedure permits it.

4

Prove breaker close, breaker trip, flashing status and de-excitation response before releasing the exciter.

Commissioning decision points

- Confirm both 70 V dc wetting-supply paths and their returns before applying control power.
- Check EBKP and EMIO cabling for keyed orientation, pin damage and secure seating.
- Do not test field flashing with the generator field connected unless the approved startup procedure permits it.
- Prove breaker close, breaker trip, flashing status and de-excitation response before releasing the exciter.

Fault isolation and final record

1	Unexpected state: stop and capture evidence
2	Recheck identity, power, slot and connectors
3	Compare configuration and revision records
4	Test surrounding system before condemning the module
5	Restore a safe state and document the outcome

Apter Power handover record

Model identity	Keep the complete GE model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power references	Scope note
GE IS200TDBTH2ACD	Portfolio reference only; verify compatibility independently.
GE IS200TREAH1A	Portfolio reference only; verify compatibility independently.
GE IS200TRTDH1CCC	Portfolio reference only; verify compatibility independently.

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Handover evidence to retain

- Exact identity retained: GE IS200EXHSG4A
- EBKP backplane
- IS200EXHSG4A pilot and status circuits
- Archive as-left checks and measured results before release.