GE IS220YDIAS1AK

Installation & Commissioning Guide

Document purpose

A controlled field checklist for identity, terminal-board pairing, enclosure readiness, energization, commissioning, and handover.

Product identity

Mark VIeS control discrete input module. Official certification identifies the base catalog number as IS220YDIAS1A.

Electrical input

28 V dc; 0.23 A maximum module input current.

Configuration boundary

Use only with the certified STCIS or TBCIS terminal-board combinations listed in this document.

Identity control: confirm the full supplied marking **IS220YDIAS1AK** against the purchase record and installed unit. The official certification used for the technical limits in this document identifies base catalog number **IS220YDIAS1A**; this document does not assign a meaning to the additional K suffix.

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Pre-installation verification

Full identity

Confirm the supplied marking is IS220YDIAS1AK; retain the complete string in the service record.

Base catalog reference

Use GE certificate data for IS220YDIAS1A only after confirming the installed unit and project record match.

Terminal-board pairing

Confirm an approved STCIS1A, STCIS2A, or TBCIS2C family terminal board.

Internal board

Where a RoHS assembly is required, verify internal acquisition board IS400BPDIS1A.

Control power

Prepare a 28 V dc source sized so the module input does not exceed 0.23 A.

Cabinet conditions

Confirm a suitable electrical enclosure and an ambient range within -30 °C to +65 °C.

Area classification

Check the approved project documents against II 3 G and the applicable certificate marking.

Documentation

Have the current project drawings and GEH-6721 or GEH-6725 available before work begins.

Do not proceed when the complete model, terminal-board catalog number, power conditions, or enclosure classification cannot be reconciled with the approved project documentation.

Stop-work conditions

- The full module marking is missing, damaged, or different from the approved service record.
- The terminal-board catalog number is outside the certified STCIS or TBCIS combinations.
- The 28 V dc supply, 0.23 A maximum module input-current limit, or cabinet ambient condition cannot be verified.
- The enclosure or hazardous-area documentation does not support the planned installation.

Installation sequence

Use the site's approved isolation, access, and electrostatic-handling procedures. The sequence below organizes model-specific verification and does not replace the project method statement.

Item	Verified value
1 — Isolate	Place the control cabinet in the approved safe state and verify the project isolation boundary.
2 — Inspect	Check the module and approved terminal board for connector damage, contamination, or evidence of overheating.
3 — Confirm pairing	Match the terminal-board catalog number to the certified STCIS or TBCIS family before seating the module.
4 — Seat and secure	Install the module in the designated enclosure position and ensure connectors are fully engaged without forcing them.
5 — Verify wiring	Compare field and control wiring against the approved project drawings; do not infer terminal assignments from a different I/O pack.
6 — Recheck environment	Confirm the enclosure and ambient conditions satisfy the documented installation limits.

Record both **IS220YDIAS1AK** and the fitted terminal-board number before the cabinet is closed. If an internal-board identity is part of the service scope, record **IS400BPDIS1A** only when it is physically verified.

Close-up checks

- Remove temporary protective materials and confirm no loose items remain in the enclosure.
- Confirm the module and terminal-board connectors remain fully seated after wiring work.
- Verify that identification labels and the service record remain readable and correspond to the installed assembly.
- Close the enclosure in accordance with the approved project procedure before energization.

Power-up and commissioning

Power verification

Confirm polarity and 28 V dc control power before energizing the module.

Current boundary

Keep maximum module input current within 0.23 A.

Initial observation

After energization, check for abnormal indications, heating, smell, or connector movement.

Point checks

Exercise only the discrete inputs authorized by the commissioning plan and compare each result with the approved point schedule.

System response

Confirm the controller-side response agrees with the project logic and that no unexpected status change is introduced.

Restore

Return test stimuli and temporary commissioning arrangements to the documented normal condition.

Acceptance record

- Complete model recorded as IS220YDIAS1AK.
- Terminal-board catalog number recorded and accepted.
- 28 V dc supply and 0.23 A maximum module input-current limit verified.
- Ambient and enclosure checks completed.
- Authorized input checks completed with expected controller response.

Post-test review

Item	Verified value
Unexpected indication	Investigate and resolve before handover; do not normalize an unexplained status.
Input mismatch	Recheck the approved point schedule, field wiring, terminal-board identity, and controller mapping.
Power anomaly	Isolate and verify the 28 V dc source, polarity, and module-current boundary.
Record completion	Capture the final model, board pairing, test result, date, and responsible technician.

Service handover and related products

Handover should include the complete module identity, terminal-board identity, power verification, commissioning results, cabinet location, and any unresolved discrepancy. Keep the official GE compliance reference with the site records.

Related GE Mark VIe product	Public product page
IS200SRLYH2AAA Relay output board	Open verified product page
IS200TTURH1B Primary turbine protection input board	Open verified product page
IS200VTURH1BAC Turbine I/O board	Open verified product page
IS200VCRCH1BBC Discrete I/O board	Open verified product page
IS200STAOH2AAA Analog output terminal board	Open verified product page
IS200TBAIH1CCC Analog input terminal board	Open verified product page
IS200TRLYH1BGF Relay output terminal board	Open verified product page
IS420YDOAS1B Safety discrete output module	Open verified product page

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