General Electric DS200SDCIG1AHB

INSTALLATION AND COMMISSIONING GUIDE / EXACT-MODEL ENGINEERING FILE

General Electric DS200SDCIG1AHB is identified as a dc power supply and instrumentation board for the GE DC2000 drive-control system. Match the complete marking, board group and installed interface arrangement before replacement.

01 Job scope and safe-work boundary

This field guide organizes the work sequence for the exact offered reference. The site-approved isolation and maintenance procedure remains controlling.

Match the complete marking	Compare DS200SDCIG1AHB with the installed board and applicable GE documentation.
Check the offered item before ordering	Request photos of DS200SDCIG1AHB; compare board marking, plugs, jumpers and included items with the installed unit.

Group boundary
G1 determines the field-supply execution.

Power boundary
Verify 38 V ac input and the published dc and 115 V ac outputs.

Instrumentation boundary
Preserve VCO, burden and firing-pulse paths before replacement.

Required work record

Nameplate record	Photograph the complete DS200SDCIG1AHB marking and any revision identifier.
Host record	Identify the exact installed position and functional ownership in GE DC2000 drive-control system.
Connection record	Label every connector, cable and terminal before disturbing the installed assembly.
Configuration record	Archive applicable project, address, setting or fail-safe information before removal.
Acceptance record	Define the expected indication and controlled functional result before energization.

Related product navigation

General Electric DS200TBCAG1AAB	Related product page; verify the complete installed model before selection.
General Electric DS200TBQBG1ACB	Related product page; verify the complete installed model before selection.
General Electric DS200TBQCG1ABB	Related product page; verify the complete installed model before selection.
General Electric DS200DTBCG1AAA	Related product page; verify the complete installed model before selection.

Page close-out record

Identity closed	The as-left record names DS200SDCIG1AHB without a shortened family reference.
Interfaces closed	Every restored connection is traceable to the pre-work record.

02 Pre-installation readiness

Verify the complete identity	Check every token in DS200SDCIG1AHB against the offered board and approved record.
Isolate all connected energy	Follow the site procedure for dc bus, field supply, control power, stored energy and electrostatic handling.
Record plugs and jumpers	Photograph and label every connector, wire jumper and hardware jumper before removal.
Preserve drive configuration	Archive the applicable GE DC2000 drive-control system settings and drawings before replacement.
As-found evidence	Retain the complete label, installed position, connector map and current indications before removal.
Replacement boundary	Compare included carriers, terminals, cables and accessories with the quotation and installed scope.

Stop conditions

Identity mismatch
Stop if any complete-model token or revision marker differs.

Interface mismatch
Stop if keying, connector count or host position does not match.

Missing baseline
Stop if the installed configuration or cable map cannot be recovered.

Technical readiness data

SDCI group	G1
Ac input	38 V ac ±10%
Logic output	+5 V dc at 4 A
Regulated positive output	+15 V dc at 0.4 A
Regulated negative output	-15 V dc at 0.4 A
External ±15 V capacity	0.25 A

Planning questions

How should DS200SDCIG1AHB be identified before a replacement is approved?	Use the complete DS200SDCIG1AHB marking, board group and revision string. Compare the installed position and documented dc power supply and instrumentation board role before approval.
What evidence should be retained before removing DS200SDCIG1AHB?	Photograph the complete marking, connector positions, jumper settings and status indications. Record the position in the GE DC2000 drive-control system.
How should the connectors for DS200SDCIG1AHB be checked during installation?	Label each plug before removal, then restore every connection from the as-found record and the applicable GE manual. Never force a keyed connector.

Readiness evidence

Identity
Complete marking and revision evidence.

Interfaces
Connector and cable ownership record.

Configuration
Approved settings or project archive.

03 Replacement sequence

01 Record	Capture marking, position, connections, settings and current indications.
02 Isolate	Apply the approved energy-isolation and ESD procedure for the installed system.
03 Compare	Check the offered unit, included items and interface execution against the removed unit.
04 Fit	Install without forcing connectors; restore routing, shielding and keying from the record.
05 Configure	Restore only the approved settings, project data or fail-safe behavior that applies.
06 Prove	Run the product-specific commissioning checks and retain the results.

Product-specific installation focus

Logic-power distribution	Provide regulated and unregulated control supplies for the DC2000 drive.
Instrumentation conversion	Maintain field-shunt and armature-current VCO paths.
Firing-pulse interface	Verify the 25 kHz, 10% duty-cycle SYOSC path from SDCC.
Field-supply boundary	Confirm G1 internal or G2 external field-exciter execution before approval.

Connection restoration controls

Position	Restore the documented host position for DS200SDCIG1AHB.
Orientation	Use the as-found orientation and keying; do not force a connector or carrier.
Cable ownership	Reconnect each labeled path to its original documented interface.
Settings	Restore only the approved address, project, fail-safe or hardware settings that apply.
Inspection	Complete a visual and continuity review before controlled energization.

Field decision notes

Evidence scope	GEH-6005 publishes the shared SDCI supply and instrumentation values and the distinct G1 field-supply boundary; the final AHB revision string remains an exact-board identity check.
Installation boundary	The installed bridge, terminals, cables, feedback devices and drive configuration remain application-specific.
Technical reference	GE DC2000 Instruction Manual GEH-6005, DS200SDCI section

Related product navigation

General Electric DS200TBQCG1ABB	Related product page; verify the complete installed model before selection.
General Electric DS200DTBCG1AAA	Related product page; verify the complete installed model before selection.
General Electric DS200SDCIG1AFB	Related product page; verify the complete installed model before selection.
General Electric IC695PNC001	Related product page; verify the complete installed model before selection.

04 Commissioning and acceptance

Identity	Confirm complete marking, artwork and installed board position.
Interface map	Restore every connector and cable only from the approved as-found record.
Controlled power-up	Observe host and board indications before enabling the process function.
Functional proof	Test the intended board role and retain diagnostic evidence with the handover.

Enquiry-to-dispatch record

Review your reference	Send the complete DS200SDCIG1AHB marking, required quantity and installed drive context.
Confirm the offer	Review the offered identity, condition, included items and delivery details.
Arrange dispatch	Confirm the accepted quantity and destination in the quotation.

Applicable technical data

Positive unregulated output	+24 V dc at 3 A
Negative unregulated output	-24 V dc at 1 A
External ±24 V capacity	0.5 A
Ac auxiliary output	115 V ac at 0.4 A
FU2 and FU3 rating	7 A, 2AG
Blown-fuse indicators	CR51 and CR55

Result record matrix

Baseline	Record the pre-test state for DS200SDCIG1AHB and its host position.
Stimulus	Apply only the approved controlled command, signal or diagnostic action.
Observation	Capture module indication, host diagnostic and field response together.
Comparison	Compare the result with the approved system record, not a generic family expectation.
Disposition	Accept, correct and retest, or record the exception with its owner.

Acceptance boundary

Commissioning should progress from identity and connection checks to controlled power-up, diagnostics and functional proof. Keep measured results, final status and open exceptions in the handover record.

Close-out control

Identity closed	The as-left record names DS200SDCIG1AHB without a shortened family reference.
Interfaces closed	Every restored connection is traceable to the pre-work record.
Function closed	The intended dc power supply and instrumentation board role has a recorded controlled-test result.
Exceptions closed	Outstanding diagnostic, configuration or scope exceptions have an owner and action.

Retain the complete model identity, measured result and every unresolved exception in the as-left maintenance record.

05 Fault isolation and handover

How can a suspected DS200SDCIG1AHB fault be separated from wiring or carrier faults?	Verify the documented supplies and reference signals first, inspect mating connectors and external wiring, then use a controlled substitution only after both signal paths are recorded.
What should be verified after fitting DS200SDCIG1AHB?	Check normal host indications and the intended dc power supply and instrumentation board function under an approved controlled test. Retain measured values and diagnostics with the handover record.
Can DS200SDCIG1AHB be replaced by a similar-looking assembly?	No direct equivalence is established by appearance. Compare the complete code, group, revision, connector execution and installed configuration.
What handover record is appropriate after work on DS200SDCIG1AHB?	Retain offered and removed markings, connection photographs, jumper or configuration evidence, measured checks, functional-test results and unresolved exceptions.

Handover pack

Identity evidence	Configuration evidence	Test evidence
Offered and removed markings plus installed position.	As-found and as-left settings or project record.	Diagnostics, controlled functional results and open exceptions.

Close-out checks

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Discuss the complete DS200SDCIG1AHB marking and installed configuration.
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Scan the WhatsApp QR to share nameplate and installed-system evidence.