General Electric DS200SHVMG1AFE

INSTALLATION AND COMMISSIONING GUIDE / EXACT-MODEL ENGINEERING FILE

General Electric DS200SHVMG1AFE is identified as a scr high voltage m-frame interface board for the GE DC2000 M-frame 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 DS200SHVMG1AFE with the installed board and applicable GE documentation.
Check the offered item before ordering	Request photos of DS200SHVMG1AFE; compare board marking, plugs, jumpers and included items with the installed unit.

Signal conversion

-500 mV to +500 mV shunt input becomes 0-500 kHz differential frequency.

CT boundary

Use 10:1 attenuation only when secondary current exceeds 144 mA.

Voltage boundary

JP9-JP17 distinguish 240-600 V ac from 601-1000 V ac.

Required work record

Nameplate record	Photograph the complete DS200SHVMG1AFE marking and any revision identifier.
Host record	Identify the exact installed position and functional ownership in GE DC2000 M-frame 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 DS200SHVMG1AFE 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 DS200SHVMG1AFE 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 M-frame 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

Board group	G1
Input shunt-signal span	-500 mV to +500 mV
Differential-frequency output span	0-500 kHz
Selectable CT attenuation	10:1
CT attenuation threshold	Insert above 144 mA secondary current
CT bypass threshold	Bypass at or below 144 mA

Planning questions

How should DS200SHVMG1AFE be identified before a replacement is approved?	Use the complete DS200SHVMG1AFE marking, board group and revision string. Compare the installed position and documented scr high voltage m-frame interface board role before approval.
What evidence should be retained before removing DS200SHVMG1AFE?	Photograph the complete marking, connector positions, jumper settings and status indications. Record the position in the GE DC2000 M-frame drive-control system.
How should the connectors for DS200SHVMG1AFE 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

M-frame bridge interface	Interface the SCR bridge with DCFB or SDCI and PCCA paths.
Current-transducer scaling	Set JP1-JP8 together for the installed ACCT secondary current.
Voltage attenuation	Set JP9-JP17 for the documented ac line and dc bridge ranges.
Controlled commissioning	Compare measured conversion and attenuation paths with the approved drive record.

Connection restoration controls

Position	Restore the documented host position for DS200SHVMG1AFE.
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 G1 M-frame interface ranges and all 17 jumper functions; the AFE revision string remains an exact-board identity boundary.
Installation boundary	The installed bridge, terminals, cables, feedback devices and drive configuration remain application-specific.
Technical reference	GE DC2000 Instruction Manual GEH-6005, DS200SHVM 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 DS200SHVMG1AFE 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

CT jumper bank	JP1-JP8; 8 positions
Voltage attenuation bank	JP9-JP17; 9 positions
Total hardware jumper positions	17
Low ac-voltage range	240-600 V ac
High ac-voltage range	601-1000 V ac
Measured voltage paths	3: ac line, motor armature and SCR bridge

Result record matrix

Baseline	Record the pre-test state for DS200SHVMG1AFE 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 DS200SHVMG1AFE without a shortened family reference.
Interfaces closed	Every restored connection is traceable to the pre-work record.
Function closed	The intended scr high voltage m-frame interface 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 DS200SHVMG1AFE 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 DS200SHVMG1AFE?	Check normal host indications and the intended scr high voltage m-frame interface board function under an approved controlled test. Retain measured values and diagnostics with the handover record.
Can DS200SHVMG1AFE 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 DS200SHVMG1AFE?	Retain offered and removed markings, connection photographs, jumper or configuration evidence, measured checks, functional-test results and unresolved exceptions.

Handover pack

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

Close-out checks

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Discuss the complete DS200SHVMG1AFE marking and installed configuration.
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Scan the WhatsApp QR to share nameplate and installed-system evidence.