ABB 3BHE027867R0101

Complete Product Information

ABB 3BHE027867R0101 is a gate drive board for ABB power converter gate-drive assembly.

01 Power-path identity and published ratings

ABB designation	GDD852A101
Order number	3BHE027867R0101
Product function	Gate drive board
Board treatment	Varnished
Equipment position	Inverter / CHBA GD
Application	ABB auxiliary converter
Replacement basis	Exact marking and connector layout

02 Functional role and system position

3BHE027867R0101, designated GDD852A101, is a varnished gate-drive board used in an ABB auxiliary-converter inverter and CHBA gate-drive position. The exact equipment designation is essential for replacement.

The board belongs between converter control electronics and the fitted power-semiconductor stage. Gate, emitter, feedback and supply connections must stay mapped to the installed converter drawing.

Service work requires complete DC-link isolation and discharge before touching the board. Record connector labels, mounting points and coating condition, then verify the converter with the approved staged commissioning procedure.

03 Engineering highlights

Gate-command transfer

Connects converter control electronics with the installed power-semiconductor stage.

Signal-path integrity

Gate, emitter, feedback and supply connections must follow the approved converter drawing.

Converter-safe replacement

DC-link isolation, discharge and staged commissioning govern board exchange and acceptance.

04 Evidence and applicability boundary

The exact part number is identified as GDD852A101, a varnished gate-drive board for an ABB auxiliary-converter inverter/CHBA GD position; seller-published electrical ratings are excluded.

05 Isolation and energy-control map

Installed-system service

Maintain the exact 3BHE027867R0101 identity when replacing the fitted gate drive board.

Configuration retention

Preserve application records, channel maps or hardware settings that belong to the installed system.

Controlled troubleshooting

Use the approved system diagnostics to separate module, wiring and companion-hardware faults.

Acceptance testing

Return the system to service only after representative functions match the recorded baseline.

06 Installation and protection controls

Confirm the full marking

Match 3BHE027867R0101 and every visible revision or assembly identifier.

Preserve the as-found map

Record connectors, terminals, orientation and companion hardware before removal.

Apply the approved isolation

Use the complete system maintenance procedure and prove the required isolation.

Protect the hardware

Use ESD control and prevent mechanical load on connectors or board surfaces.

Restore configuration deliberately

Reapply only the approved installed settings, wiring and application records.

Retain acceptance evidence

Keep label photographs, test results, deviations and responsible sign-off.

07 Technical notes

Installation relationship	3BHE027867R0101 belongs to the configured ABB power converter gate-drive assembly hardware chain; the complete installed relationship governs replacement.
Protection	Follow the approved isolation, ESD and system-specific commissioning procedure before handling 3BHE027867R0101.
Technical reference	Exact-order industrial and railway procurement records for ABB GDD852A101. The exact part number is identified as GDD852A101, a varnished gate-drive board for an ABB auxiliary-converter inverter/CHBA GD position; seller-published electrical ratings are excluded.

08 Installed-system decision points

How should the gate-drive connections of 3BHE027867R0101 be recorded before removal?	Photograph the connector layout, cable tags, orientation and the inverter or CHBA GD position before disturbing the board. Restore the exact map; gate-drive connectors must not be reassigned by visual similarity.
What power-stage relationship must be confirmed for 3BHE027867R0101?	Verify the associated converter section and the driven semiconductor position from the approved ABB drawing. The GDD852A101 identity must be matched to the documented power-stage location rather than only to a cabinet family.
How should the varnished surfaces of 3BHE027867R0101 be handled?	Use ESD controls and handle the board only by approved edges or supports. Inspect the varnish for cracking, contamination or heat discoloration and do not probe coated circuitry unless the ABB service procedure permits it.

09 Electrical restoration and acceptance matrix

Safe-state proof	Apply the complete equipment isolation and stored-energy procedure before handling the unit. Exact model: 3BHE027867R0101.
Physical relationship	Restore polarity, orientation, connector and support relationships from the as-found record. Exact model: 3BHE027867R0101.
Controlled energization	Use the documented staged procedure and monitor the expected electrical and diagnostic response. Exact model: 3BHE027867R0101.
Final acceptance	Record stable operation, relevant measurements and the final fault-free state. Exact model: 3BHE027867R0101.

10 Published technical data - continuation

Documented platform	ABB power converter gate-drive assembly
Exact-model boundary	Use the complete marking and every visible revision or assembly identifier.
System-data boundary	The exact part number is identified as GDD852A101, a varnished gate-drive board for an ABB auxiliary-converter inverter/CHBA GD position; seller-published electrical ratings are excluded.

11 Product-specific engineering FAQ

How should the gate-drive connections of 3BHE027867R0101 be recorded before removal?

Photograph the connector layout, cable tags, orientation and the inverter or CHBA GD position before disturbing the board. Restore the exact map; gate-drive connectors must not be reassigned by visual similarity.

What power-stage relationship must be confirmed for 3BHE027867R0101?

Verify the associated converter section and the driven semiconductor position from the approved ABB drawing. The GDD852A101 identity must be matched to the documented power-stage location rather than only to a cabinet family.

How should the varnished surfaces of 3BHE027867R0101 be handled?

Use ESD controls and handle the board only by approved edges or supports. Inspect the varnish for cracking, contamination or heat discoloration and do not probe coated circuitry unless the ABB service procedure permits it.

Which isolation checks are required before servicing 3BHE027867R0101?

Isolate the complete converter, prove the DC link and auxiliary supplies safe and confirm that stored energy has discharged. Gate-drive work must not begin from a logic-off indication alone.

How can a 3BHE027867R0101 fault be separated from a power-semiconductor fault?

Compare gate-drive alarms, connector continuity, auxiliary supply condition and the associated semiconductor checks in the approved sequence. Avoid replacing the board until the power stage and its wiring have been assessed.

What identity markings must match for 3BHE027867R0101?

Use the complete order number 3BHE027867R0101 together with the GDD852A101 designation, visible revision and connector layout. A shortened designation does not confirm the same coated board assembly.

How should 3BHE027867R0101 be commissioned after installation?

Follow the converter service procedure with the power stage in a controlled state, verify expected gate-drive diagnostics and progress through staged energization. Stop if the commanded and observed states do not agree.

What handover evidence should be retained for 3BHE027867R0101?

Keep label photographs, converter position, connector map, isolation proof, diagnostic observations, staged test results and the final fault-free state with the maintenance record.

12 Lifecycle and supply boundary

The current manufacturing and manufacturer-support phase of 3BHE027867R0101 is unconfirmed. Preserve its exact installed identity when planning service.

Offered reference	ABB 3BHE027867R0101
Included items	the 3BHE027867R0101 gate drive board; companion hardware and accessories only when itemized in the quotation
Identity check	Compare the complete marking, revision and connections with available unit photographs and the installed record.

13 Commissioning handover record

Isolation and discharge evidence	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Polarity or phase relationship	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Controlled energization result	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Final electrical condition	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.

14 Enquiry workflow

Review your reference	Send the complete 3BHE027867R0101 marking, installed-position photographs and required quantity.
Confirm the offer	Confirm the offered revision, condition, included items and documented system fit in the quotation.
Arrange dispatch	Agree quantity, dispatch date and delivery details in the quotation.

15 Related product references

Recommended model	ABB BSFC-02C 3AXD50000011461
Recommended model	ABB CP-A RU 1SVR427071R0000
Recommended model	ABB GJR5143100R0001 35EK90
Recommended model	ABB GJR5146620R0001 35ZE94G
Recommended model	ABB NMFC03

Confirm the complete 3BHE027867R0101 marking, installed relationship and required quantity with Apter Power.

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