

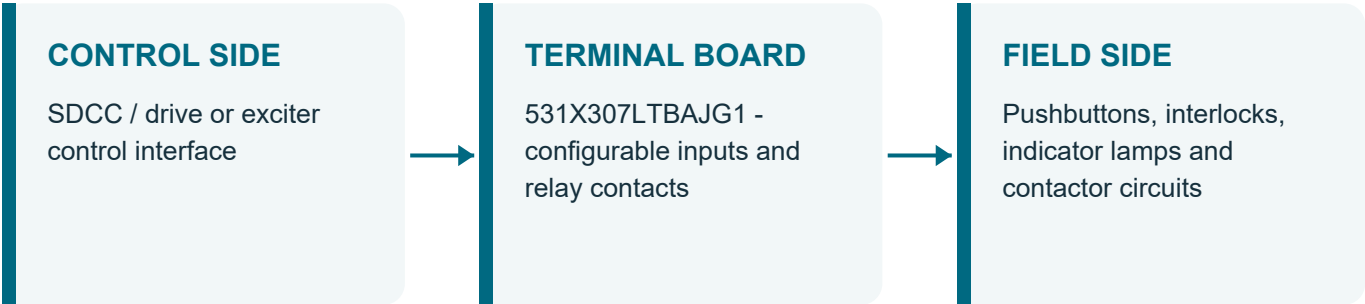
531X307LTBAJG1

LAN I/O terminal board

A 531X-series terminal interface for external drive or exciter control devices. The exact item has a documented G1-style input and relay-output arrangement.

- 8 control-input plugs
- 7 form-C relay outputs
- 531X LTB family

Where the board sits



IDENTITY	VERIFIED DESCRIPTION
Complete part number	531X307LTBAJG1
Product family	531X307LTB LAN I/O terminal board
System context	DC2000 drive or documented exciter installation

SCOPE BOUNDARY

GEH-6005 describes the 531X307LTB family. Its text must be checked against the installed complete suffix and wiring before service.

Control and field interface

The G1 arrangement combines configurable inputs with control relay contacts; it is an I/O interface, not an Ethernet network device.

INTERFACE	DOCUMENTED ROLE
Control inputs	Eight configurable input plugs on the G1 board arrangement; C11PL-CI8PL in the manufacturer manual.
Drive connection	G1 input plugs connect through 8PL toward the drive-control card and terminal points.
Relay outputs	Seven low-voltage, low-current form-C relay contact connections.
Pilot path	Pilot contact connections can drive an optional RTBA relay terminal board when installed.
Field devices	External contactors, indicator lights, pushbuttons and interlocks are named in the GE family manual.

INPUT PATH

External control state -> G1 input plug -> LTB terminal / 8PL -> SDCC interface.

OUTPUT PATH

Drive control -> LTB form-C contact -> external low-current control circuit.

CONNECTION LIMIT

Use the installed system drawing to identify terminals. The optional RTBA path must not be assumed present on every drive.

Engineering and service decisions

01 / Preserve identity

Record the full 531X307LTBAJG1 marking and installed board group before removal.

02 / Map every terminal

Compare each input, relay output and external interlock with the approved drive drawing.

03 / Separate cable routes

Do not route the board's I/O ribbon cable with power wiring; coupling can create input leakage.

04 / Protect input circuit

Do not connect an input across an inductive device; GE warns this can damage the circuit.

05 / Check optional RTBA

If an RTBA relay terminal board is installed, trace its pilot connection before work.

06 / Prove controlled function

After recommissioning, verify each affected input, contact output and interlock against the site record.

CHECK	ENGINEERING BOUNDARY
Board family	531X307LTB
Revision rule	Apply GEH-6005 values only after the installed marking and wiring are verified.
No unsupported ratings	This dossier intentionally omits disputed input-voltage and relay-current figures.

Model-specific technical questions

QUESTION	EVIDENCE-BASED ANSWER
What is its role?	An LTB interface between drive/exciter controls and external devices.
How many G1 input plugs?	Eight configurable control-input plugs are documented for the G1 arrangement.
What output contacts?	Seven low-voltage, low-current form-C relay-contact connections.
Which external devices?	Contactor circuits, indicator lights, pushbuttons and interlocks.
When does RTBA apply?	Only where the installation includes an RTBA relay terminal board.
How should ribbon cable run?	Keep I/O ribbon cables separate from power wiring.
Which input connection is prohibited?	Do not connect an input across an inductive device.

MANUFACTURER DOCUMENT

GE DC2000 Digital Adjustable Speed Drive, GEH-6005, September 1995, sections 5-4.6 and 6-9. The complete suffix is verified separately; check the installed board revision before applying family-level instructions.

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