GE IS200ECTBG2ADE

Exciter Contact Terminal Board

GE IS200ECTBG2ADE is the EX2100 simplex contact terminal board, combining customer auxiliary contacts, generator status inputs and relay/trip outputs at the EMIO interface.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	IS200ECTBG2ADE
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	33cm x 17.7cm x 5.5cm
Country of Origin	USA
Manufacturer	General Electric
Product Category	Gas Turbine Control
Spare Part Number	IS200ECTBG2ADE
Weight	0.66 kg

Buyer information / Overview

ECTBG2 is the simplex execution. ECTBG1 fans inputs to three controllers and uses voted relay control; the G1 and G2 wiring architectures must not be treated as the same spare.

Generator-state handling

Dedicated lockout and online inputs remain separate from general-purpose contact duties.

Relay observability

Coil current and auxiliary-contact status provide distinct feedback to the controller.

Simplex-specific routing

The G2 board carries the single-controller contact arrangement rather than the G1 redundant fan-out.

ECTBG2 receives six auxiliary contact inputs plus dedicated 86G and 52G status inputs. The 86G input is open for trip, while 52G is closed for online status. Keeping these functions explicit avoids replacing a protective or generator-state signal with an assumed general-purpose input.

The general-purpose Form C outputs are controlled by EMIO. Coil-current and auxiliary-contact feedback are returned to that controller, so relay diagnosis should distinguish the requested command from the contact result. The board also contains two trip-contact outputs for the customer lockout duty.

The relay breaking capability changes with voltage and load type. The published inductive figures include an L/R condition, and inductive-load suppression is provided externally by the customer. Retain that suppression and the customer contact supply when restoring a simplex EX2100 circuit.

Controller platform reference: EX2100 simplex contact I/O. Retain the documented GE configuration.

Technical Specifications

General-purpose contact inputs	6
Dedicated status inputs	2
Contact-wetting voltage	70 V DC
General-purpose Form C outputs	4
Trip contact outputs	2
Relay customer supply, nominal	125 V DC
Relay customer supply, minimum	24 V DC
Resistive breaking current at 28 V DC	2 A
Resistive breaking current at 125 V DC	0.5 A
Inductive breaking current at 28 V DC	1 A; L/R 0.007 s
Inductive breaking current at 125 V DC	0.1 A; L/R 0.007 s

Technical source: GE EX2100 Excitation Control User Guide GEH-6632G. Contact data apply to the ECTBG2 simplex design. Relay breaking limits refer to the stated DC voltage and L/R condition; the complete ADE identity is retained for the offered hardware.
Apter Power product summary. Original technical pages and a field guide are available in Downloads.

Applications / Compatibility

G2 identifies the simplex EX2100 contact interface; retain the EMIO connection and generator-status wiring used by that controller.

Use the board for its documented contact and relay duties. G1 redundant fan-out and voting do not transfer to G2 simply because the ECTB prefix matches.

Generator lockout input
Preserve the 86G open-for-trip logic and test it against the lockout drawing. Treat this dedicated status separately from a freely assigned auxiliary contact.

Generator online status
Restore the 52G closed-online relationship at the intended terminals. Confirm that the controller indication follows the actual breaker/status contact.

Auxiliary relay outputs
Match the customer supply and connected load to the voltage-specific breaking limits. Retain external suppression where the relay switches an inductive circuit.

Simplex EMIO interface
Connect the G2 contact board to its recorded simplex EMIO path. Compare the control architecture before considering a redundant G1 board as a spare.

Product Precautions

Prepare GE IS200ECTBG2ADE using the following checks for its documented interface and system duty.

Isolate customer supplies
External relay-contact power remains a separate isolation source.

Preserve 86G logic
Check the open-for-trip relationship before returning protection to service.

Keep 52G identity
Confirm the online status source and its closed-online behavior.

Retain suppression
Inspect the customer-provided suppression on inductive loads.

Compare load at voltage
Use the breaking limit for the actual supply and L/R condition.

Prove relay feedback
Compare coil command, auxiliary status and the actual switched circuit.

Lifecycle Status

The factory lifecycle phase of IS200ECTBG2ADE is unconfirmed. Its G2 function is simplex EX2100 contact I/O, distinct from the redundant G1 arrangement.

Preserve the six auxiliary input assignments, dedicated generator states and relay/trip paths to EMIO. A G1 replacement requires an architecture review rather than a terminal-for-terminal assumption.

Supply scope covers the G2 terminal board; customer contact power, inductive suppression and external lockout equipment remain installation items.

Available Unit Details

Offered reference	GE IS200ECTBG2ADE
Identity check	Photographs should identify G2ADE, field terminal numbering and the connections assigned to 86G, 52G, customer relay supply and trip outputs.
Physical review	Visible terminal and relay-area condition can be reviewed before supply. Generator-state interpretation, customer suppression and trip-circuit action must be verified with the receiving EX2100 installation.
Included items	one simplex contact terminal board; controller cables and external suppression separately listed

Request available-unit photos and details: sales13@apterpower.com

Technical notes

Group distinction	G2 is simplex; G1 uses three-controller fan-out and voted relay control.
Load interpretation	The inductive break-current values depend on the stated L/R condition.
Trip-state acceptance	Check 86G with its open-for-trip interpretation separately from 52G closed-when-online status; a generic contact continuity result does not verify both plant states.

Alternative Names

GE IS200ECTBG2ADE

Frequently Asked Questions (FAQ)

1. Can IS200ECTBG2ADE be exchanged directly for an ECTBG1 redundant board?

The group change is not established as a direct interchange. G1 fans inputs to three controllers and uses voted control, whereas G2 is simplex. Compare the rack architecture and cable routing first.

2. What is the consequence of reversing the 86G logic on IS200ECTBG2ADE?

The dedicated input is open for trip. Reversing that relationship can misrepresent lockout status; prove the actual contact and controller interpretation before enabling normal operation.

3. Why should the 52G circuit of IS200ECTBG2ADE be checked independently of auxiliary contacts?

52G supplies the generator online state and is closed when online. Confirm its terminal identity and physical status source rather than assigning it as a generic auxiliary input.

4. Does IS200ECTBG2ADE eliminate the need for external suppression on inductive loads?

No. The published relay characteristics call for customer-provided external suppression. Retain its correct location and compare the actual inductive duty with the voltage-specific break limit.

5. How can a relay command and relay-status discrepancy on IS200ECTBG2ADE be investigated?
Check coil-current feedback and auxiliary-contact status separately, then verify the customer supply and switched field circuit. A valid controller command does not prove the external load received power.

6. Can the 28 V DC breaking-current value of IS200ECTBG2ADE be used for a 125 V DC circuit?
No. The manufacturer gives different current limits at those voltages and for resistive versus inductive loads. Select the applicable row and preserve the specified L/R condition.

7. Why can an auxiliary-input test pass while generator status remains wrong on IS200ECTBG2ADE?
The six general-purpose inputs are distinct from dedicated 86G and 52G duties. Trace the lockout and breaker-status contacts to their assigned terminals, then prove open-for-trip and closed-when-online interpretation at the controller.

8. How should an intermittent inductive-output fault be assessed on IS200ECTBG2ADE?
Compare customer supply and contact-side behavior at switching, inspect the external suppression circuit, and check the voltage-specific break current with the stated L/R condition. A steady-state continuity test alone does not represent an inductive interruption.

Downloads
The technical reference covers EX2100 simplex contact I/O. The independent field guide develops simplex generator-status and relay acceptance.

IS200ECTBG2ADE Original Technical Reference Excerpt	Selected original manufacturer pages for the applicable interfaces and technical data. PDF · 3 pages · 31.2 KB.
IS200ECTBG2ADE Installation & Commissioning Guide	Simplex Generator-Status and Relay Acceptance. Keep the 86G/52G decisions separate from auxiliary contacts, then prove relay behavior using both controller feedback and the external field circuit. PDF · 2 pages · 91.9 KB.

Selected original technical pages and a separate installation guide support this product.

What happens after you enquire

Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks
Include IS200ECTBG2ADE and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered IS200ECTBG2ADE reference with the installed equipment and applicable GE documentation.

Service and support

Dispatch Planning	Confirm stock and lead time with our team.
Dedicated Manager	Personalized one-to-one VIP service
ISO 9001:2015 Certified	Trusted quality management
Warranty Policy	Review the applicable warranty coverage and claim process.
Return Notice	Check the return process and obtain approval before sending an item back.
Shipping Method	Review shipping arrangements, transit estimates and delivery responsibilities.
Parts Availability	Browse stock listings and confirm current availability with our team.
How to order	See how to submit an enquiry, review a quotation and confirm an order.

Discuss your requirement
Send the full marking, label photos, quantity and required date. Our team will review the available sourcing options with you.

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Related product references
Separate supply references; listing does not establish interchangeability.

GE IS200EPSMG1AED	Exciter Power Supply Module; separate supply reference
GE IS200TRLYH1BHH	Relay Output Terminal Board; separate supply reference

Discuss IS200ECTBG2ADE and the installed application with Apter Power.
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