TECHNICAL REFERENCE / EXACT-MODEL DOSSIER

# GE IS200TRLYH1BGG

## Relay Output Terminal Board

GE IS200TRLYH1BGG is a Mark VI TRLY H1B relay output terminal board that interfaces VCCC or VCRC output control with customer-powered relay and solenoid circuits.

### IDENTITY AND FUNCTION SNAPSHOT

| | |
|---|---|
| **H1**<br>Mark VI TRLY H1B terminal board | **H2**<br>Twelve plug-in magnetic relays |
| **H3**<br>VCCC or VCRC associated I/O boards | **H4**<br>Simplex or TMR system arrangements |

## Installed-system position

| | |
|---|---|
| 1 | VCCC or VCRC output command |
| 2 | IS200TRLYH1BGG relay coils |
| 3 | Dry-contact or solenoid field circuit |
| 4 | Customer-powered external load |

## Exact-model release boundary

| | |
|---|---|
| **Identity**<br>Keep GE IS200TRLYH1BGG complete in drawings, labels and acceptance records. | **Evidence**<br>Use only the exact-model and explicitly applicable family facts documented here. |
| **Configuration**<br>Record cables, jumpers, settings and the installed functional position before work. | **Acceptance**<br>Prove the affected control path before returning the equipment to service. |

02 / SYSTEM ROLE AND INTERFACES

# Architecture, interfaces and service boundaries

GE IS200TRLYH1BGG retains the full BGG suffix while applying only the documented IS200TRLYH1B family characteristics. The installed drawings determine which outputs are simplex or voted and how customer field power is routed.

### CONTROL PATH

| | |
|---|---|
| 1 | VCCC or VCRC output command |
| 2 | IS200TRLYH1BGG relay coils |

| | |
|---|---|
| 3 | Dry-contact or solenoid field circuit |
| 4 | Customer-powered external load |

## Interface architecture

| | |
|---|---|
| VCCC/VCRC connection | Carries the Mark VI output commands to the TRLY board |
| Relay coils | Twelve plug-in magnetic relays translate control commands |
| Field terminals | Connect application-assigned dry contacts or solenoid circuits |
| Customer field power | Supplies the external load independently of the logic command path |

## Interface acceptance checks

**1**

Isolate customer field power and verify every relay terminal is de-energized before handling IS200TRLYH1BGG.

**2**

Record whether the installed Mark VI path uses VCCC or VCRC and whether the application is simplex or TMR.

**3**

Map all twelve relay positions to their loads, contact usage and safe states before removing conductors.

**4**

Preserve the complete IS200TRLYH1BGG revision identity and do not treat another H1B suffix as automatically equivalent.

## Engineering rule

A nearby GE family code does not establish interchangeability with IS200TRLYH1BGG; use the physical nameplate and controlled site records.

03 / VERIFIED TECHNICAL DATA

# Engineering matrix and component map

Every populated row is a technical value supported by the reviewed exact-model record or an explicitly applicable GE family source.

| | |
|---|---|
| Product family | Mark VI |
| Board function | Relay output terminal board |
| Terminal-board family | TRLY H1B |
| Relay count | 12 |
| Relay type | Plug-in magnetic |
| Associated I/O boards | VCCC or VCRC |
| System arrangements | Simplex or TMR |
| First six circuits | Jumper-selectable solenoid or dry Form-C duty |
| Field-power basis | Customer-powered output circuits |
| Complete revision | BGG |

## CHANGE CONTROL

### Record

Capture the full model, revision, slot, connectors and as-found condition.

### Compare

Match every populated technical row to the replacement and project record.

### Protect

Apply controlled isolation, stored-energy and ESD practices.

### Prove

Complete the product-specific functional and safe-state checks.

## Source applicability

| Evidence record | Applicable scope |
|---|---|
| GEH-6421H Mark VI Control System Guide Volume I, TRLY architecture tables | Supports only the exact-model or explicitly applicable family facts used in this document. |
| Exact-model IS200TRLYH1BGG identity records and IS200TRLYH1B hardware data | Supports only the exact-model or explicitly applicable family facts used in this document. |

04 / SERVICE LOGIC AND ACCEPTANCE

# Fault isolation and controlled return

| | |
|---|---|
| 1 | Capture the fault, indicators and surrounding-system state |
| 2 | Verify exact identity, power boundary, cabling and installed position |
| 3 | Test GE IS200TRLYH1BGG against the approved service procedure |
| 4 | Correct the isolated cause and restore the recorded configuration |
| 5 | Commission the affected path and archive measured evidence |

## Eight product-specific precautions

| | |
|---|---|
| **1**<br>Isolate customer field power and verify every relay terminal is de-energized before handling IS200TRLYH1BGG. | **2**<br>Record whether the installed Mark VI path uses VCCC or VCRC and whether the application is simplex or TMR. |
| **3**<br>Map all twelve relay positions to their loads, contact usage and safe states before removing conductors. | **4**<br>Preserve the complete IS200TRLYH1BGG revision identity and do not treat another H1B suffix as automatically equivalent. |
| **5**<br>Record jumper positions on the first six circuits before changing any dry-contact or solenoid selection. | **6**<br>Verify field-voltage class, polarity, branch protection and suppression from the controlled site drawings. |
| **7**<br>After reconnection, test each commanded relay at the board and at the field load instead of relying only on software status. | **8**<br>Complete acceptance by proving de-energize behavior for communication loss, controller fault and the documented emergency state. |

05 / ENGINEERING FAQ AND SUPPORT

# Model-specific engineering decisions

| Engineering decision | Controlled response |
|---|---|
| How many relay outputs are provided by GE IS200TRLYH1BGG? | The applicable TRLY H1B hardware provides twelve relay-output positions. |
| Which I/O boards are associated with GE IS200TRLYH1BGG? | The Mark VI architecture associates TRLY relay outputs with VCCC or VCRC I/O boards. |
| Which relay type is used on GE IS200TRLYH1BGG? | The H1B terminal-board family uses twelve plug-in magnetic relays. |
| Can GE IS200TRLYH1BGG serve simplex and TMR systems? | Yes. The applicable Mark VI documentation identifies TRLY use in simplex or TMR arrangements, with the project design defining the actual circuit. |
| What can the first six GE IS200TRLYH1BGG circuits be configured to drive? | They can be jumper-selected for external solenoid duty or dry Form-C contact outputs. |

| Engineering decision | Controlled response |
| --- | --- |
| Who supplies the load power switched by GE IS200TRLYH1BGG? | The external relay and solenoid circuits use customer field power; the board provides the controlled switching boundary. |
| What should be traced when a GE IS200TRLYH1BGG load stays de-energized? | Trace the VCCC/VCRC command, cable, relay coil, selected contact, branch protection, customer field power and final load. |
| Which tests close GE IS200TRLYH1BGG commissioning? | Exercise all assigned relay positions, verify contact voltage and load operation, then prove the configured safe response to loss of command and field power. |

## Related Apter Power references

| Related Apter Power references | Scope note |
| --- | --- |
| GE IS200TRTDH1CCC | Portfolio reference only; verify compatibility independently. |
| GE 151X1202YE03SA04 IS200STAIH2ADC | Portfolio reference only; verify compatibility independently. |
| GE IC697ACC724 | Portfolio reference only; verify compatibility independently. |

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| | Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com | Model record GE IS200TRLYH1BGG Relay Output Terminal Board Verify the complete nameplate before installation. |