

GE GE Series Service Manual

IS200EISBH1AAA

1. Description

SPECIFICATIONS:

2. Specifications

Specification	Value
Manufacturer	General Electric
Series	Mark VI Speedtronic
Functional	Part Number IS200EISBH1AAA
Functional	Description IS200EISBH1AAA Exciter ISBus Board
Revision	Total 3 Revisions
Backwards-Compatibility	1st two revisions
Assembly	Type Normal Assembly

3. Product Information

SPECIFICATIONS:

Part Number: IS200EISBH1AAA

Manufacturer: General Electric

Series: EX2100

Product Type: Exciter ISBus Board

Number of channels: 12

Input span: 4-20 mA

Common Mode Voltage Range: ± 5 V

Maximum Lead Resistance: 15 Ω

Analog output current: 0-20 mA

Operating temperature: -30 to 65 °C

Size: 8.26 cm high x 4.19 cm

Repair: 3-7 Day

Availability: In Stock

Country of Origin: United States

Manual: GEI-100454

FUNCTIONAL DESCRIPTION:

IS200EISBH1AAA is an Exciter ISBus Board manufactured and designed by General Electric as part of the EX2100 Series used in GE Excitation Control Systems. The IS200EISB Exciter ISBus Board (EISB) is a special communication board for the M1, M2, and C controllers. It receives and transmits fiber-optic feedback signals and transmits them over the control backplane to the DSPX controller and also communicates between the DSPX and the tool and keypad ports using RS-232C through the backbone connector. In addition, for redundant exciters, EISB contains ISBus interface electronics. ISBus is a GE proprietary communications interface, used here to transfer data among the M1, M2, and C controllers of the exciter. EISB is a single-slot, 3U-high module that is located in the control rack under the DSPX. From fiber-optic connectors on the front panel, it accepts current and voltage signals from the generator field (and from the Exciter if required) using EDCF boards, and receives and transmits signals to the Ground Detection module.

APPLICATION DATA:

The board front panel has six fiber optic connectors for receiving and transmitting variable frequency signals as follows:

Generator Field DC voltage input from the EDCF board

Generator Field DC input from the EDCF board

Exciter Voltage input from EDCF (optional)

Exciter current input for EDCF (optional)

Ground Detector Voltage input

Ground Detector Voltage output

IS200EISBH1AAA Technical Specifications

Manufacturer General Electric

Series Mark VI Speedtronic

Functional Part Number IS200EISBH1AAA

Functional Description IS200EISBH1AAA Exciter ISBus Board

Revision Total 3 Revisions

Backwards-Compatibility 1st two revisions

Assembly Type Normal Assembly

About the IS200EISBH1AAA

The IS200EISBH1AAA is a printed circuit board created by General Electric as part of their Mark VI gas/steam turbine control system. The Mark VI is one of several Speedtronic systems designed and released by General Electric from the 1960s onward. The Mark VI uses 13- or 21-slot VME card racks for control, protection, and monitoring. The IS200EISBH1AAA is part of the EX2100 Excitation control subset of the Mark VI. The Mark VI Turbine Control System Series that this IS200EISBH1AAA Exciter ISBus Board printed circuit board product offering belongs to has to be described as quite the step up from the similarly-named Mark V Turbine Control System Series, at least in terms of functionality, as the Mark V Series' established gas and steam possible functional environments were expanded to include the wind turbine alternative energy-minded possible functional application with the rollout of the Mark VI Turbine Control System Series.

Hardware Tips and Specifications

The IS200EISBH1AAA functions as an Exciter ISBus circuit board. The board acts as a communication interface circuit card between the M1 and M2/C controllers. It is designed to provide communication for each DSPX board located in M1, M2 and C. The IS200EISBH1AAA is a single slotted 3U high board. The board uses its backplane connectors to receive and transmit feedback signals. The IS200EISBH1AAA has a front faceplate with several integrated components. It is marked top and bottom with the GE logo and with the board id number. It has an opening to allow users to access a reset switch mounted to the board's surface. It also has an opening populated by six fiber-optic connectors. The IS200EISBH1AAA has one backplane connector. Factory-drilled holes have been made in each board corner. Other components include two transformers, a relay, a transistor, as well as resistors, integrated circuits, and capacitors. Our team will make sure your in-stock order ship the same day you place your order (please order before 3 pm for same-day shipment.) We carefully pack every purchase to ensure your purchase is received in excellent condition. Generally, any resistor, capacitor, transistor, diode, or integrated circuit in the normal Mark VI Series assembly of this IS200EISBH1AAA Exciter ISBus Board device exists as part of a greater voltage suppression strategy standardized to the rest of this IS200EISBH1AAA Exciter ISBus Board product's greater Mark VI Series.

This IS200EISBH1AAA Exciter ISBus Board device has so far been explained on this personalized product page here through the lens of a diligent visual inspection of the IS200EISBH1AAA Exciter ISBus Board device itself, given the low general amount of online-available IS200EISBH1AAA Exciter ISBus Board instructional manual materials. With this being the case, the IS200EISBH1AAA Exciter ISBus Board functional product number itself can also be deemed as existing as a fine functional source of IS200EISBH1AAA Exciter ISBus

Board hardware component and component specification information, as it codes for a number of relevant IS200EISBH1AAA Exciter ISBus Board qualities through its series of consecutive functional naming elements. For starters, this IS200EISBH1AAA Exciter ISBus Board functional product number begins with an iteration of the dual-functional IS200 series tag that was specially designed by General Electric to assert this IS200EISBH1AAA Exciter ISBus Board product's normal Mark VI Turbine Control System Series assembly version on top of its domestic original location of GE manufacture. Some of the other relevant IS200EISBH1AAA Exciter ISBus Board details indicated through this medium include its:

- EISB functional product acronym
- Group one Mark VI Series product grouping
- Conformal PCB protective coating type
- Three-fold revision table