GE GE □□□ Series Service Manual

IS200GGXIG1AFE

1. Description

SPECIFICATIONS

2. Specifications

Specification	Value
Manufacturer	General Electric
Series	Mark VI Speedtronic
Part	Number IS200GGXIG1A
Product	Type Expander Load/Source Board
Assembly	Type Normal Assembly
Manufacturer	Location Domestic
Revision	Quantity 1 Revision
About	the IS200GGXIG1A
This	module can be created in Triple Redundant or Simplex form. The IS200GGXIG1A is an Expander Load Source Board, made for the Mark VI Series, of course. This board provides control and isolation between the high-voltage power bridge and connections to cards on the Innovation Series board rack like the (BPII) and the (BICI.) The IS200GGXIG1A converts RS422 signals to fiber-optic signals in order to gate the bridge IGCT switching devices. The IS200GGXIG1A can connect to up to twelve power devices. The IS200GGXIG1A device's originally-printed instructional manual materials delegate a number of important IS200GGXIG1A Board installation requirements and procedures that are crucial to follow given the possible presence of damaging surface voltages on this IS2

3. Product Information

SPECIFICATIONS

Part Number: IS200GGXIG1AFE

Manufacturer: General Electric

Series: Mark VI

Product type: Expander Load Source Board

Availability: In Stock

Country of Manufacture: United States (USA)

Functional Description

IS200GGXIG1AFE is an expander load source board designed and developed by GE. It is a part of GE Mark VI control system. It serves as an Expander Load Source Board, providing control and isolation between the high-voltage power bridge and other cards on the board rack. By converting RS422 signals to fiber-optic signals, it enables the gating of the bridge IGCT switching devices. With the ability to connect to multiple power devices, it ensures efficient power management within the system. It offers various I/Os and connectors for seamless integration with other boards, facilitating effective communication and power transfer. Additionally, the board incorporates grounding stabs for different circuit types, an isolated serial ID chip for identification, and various test points and LEDs for monitoring and troubleshooting.

Features

Central Control Module for system control, monitoring, and protection

Available in Triple Redundant or Simplex form

Expander Load Source Board

Provides control and isolation between the high-voltage power bridge and connections to other cards

Converts RS422 signals to fiber-optic signals for gating the bridge IGCT switching devices

Can connect to up to twelve power devices

Multiple I/Os for connecting with other boards

Various connectors for power supply inputs, power output, and feedback, voltage feedback, and fiber-optic connections

Connectors designed to communicate with specific boards (BICI, BPII, GDPA)

Grounding stabs for quiet and noisy circuits

Isolated serial ID chip

Fourteen TP test points and nine LEDs

Includes capacitors and resistors

No adjustable hardware devices or fuses

IS200GGXIG1A Technical Specifications

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Series Mark VI Speedtronic

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Storage in anti-static bags or boxes

Use of a wrist grounding strap when handling components

Removal of seven mounting screws after powering off the IS200GGXIG1A device

Matching of star washers with appropriate metal standoffs

IS200GGXIG1A I/O Offerings

The IS200GGXIG1A is built with many I/Os to connect with other boards. This includes power supply inputs for the GGXI board (J1 through J4,) power output and feedback connectors (J10 through J12,) voltage feedback (J15 and J16,) and fiber-optic connectors. The board also has connectors that are designed to communicate with specific boards. JFBK connects to the BICI board. JGATE connects to the BPII board. J5 monitors control power to the GDPA board. The board has grounding stabs (LCOM and DCOM) for quiet and noisy circuits. The IS200GGXIG1A has an isolated serial ID chip. The board also includes:

fourteen TP test points

nine LEDs

various capacitors and resistors

no adjustable hardware devices or fuses