GE Service Manual

IS200ATBAG1BAA1

1. Description

IS200ATBAG1BAA1 Technical Specifications

2. Specifications

Specification	Value
OEM	**General Electric**
Series	**Mark VI Speedtronic**
Functional	**Part Number IS200ATBAG1BAA1**
Product	**Type Interface Card**
Functional	**Acronym ATBA**
Revision	**Quantity 3 Revisions**
Assembly	**Type Normal Assembly**
About	**the IS200ATBAG1BAA1**
The	**IS200ATBAG1BAA1 is a component manufactured for General Electric's Mark VI series. The MKVI is one of the most advanced of GE's gas/steam turbine Speedtronic management systems that includes a Windows 2000/XP based operator interface, Ethernet and DCS communications, and Cimplicity software. This server-based HMI/SCADA software collects and shares real-time and historical data that provides visibility to control and monitor plant equipment, processes, and resources. The Mark VI Turbine Control System Series, as it is known in length, is rather self-described as it exists with a restricted set of possible functional applications in the management and control systems of General Electric-compatible gas, wind, and steam turbines; quite the massive improvement upon**

3. Product Information

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Hardware Tips and Specifications

The largest component on the IS200ATBAG1BAA1 is a sixty-pin terminal block located in the center of the board. This block is used to connect to backplane connectors J6 and J7 located on the CABP board (Control Assembly Backplane.) The two lines of thirty connectors are labeled in blacks ranging from one connector up to thirteen connectors. These include: system fault string (3,) local fault string (3,) digital inputs (12,) analog inputs (5,) Tachometer (10,) MA Pilot (3,) Fdbk (2,) SSR (2,) digital outputs (13,) pot (2,) and analog outputs (5.)The IS200ATBAG1BAA1 is built with two male vertical pin connectors. These are marked J6 and J7. One is a 36-pin connector (J6,) and the other is a 25-pin connector (J7.) The opposite side of the board includes a cable shield to both protect and contain cables.

The IS200ATBAG1BAA1 should be handled at all times as a static-sensitive board. Technicians should use a grounding strap when installing or maintaining this component. Our warehouse will use anti-static coverings to protect the board from static discharge during shipment. GE publication GEI-100284 will provide more information on the installation and maintenance of the IS200ATBAG1BAA1. Please refer to documentation as needed for guidance. Given the fact that this IS200ATBAG1BAA1 printed circuit board product offering is not surrounded by any great amount of originally-printed instructional manual materials online, all of the above-included IS200ATBAG1BAA1 PCB information has been directly sourced from a diligent technician-led visual inspection of the IS200ATBAG1BAA1 device itself. Given this IS200ATBAG1BAA1 printed circuit board or PCB for short's lack of pertinent instructional documentation, the IS200ATBAG1BAA1 functional product number can be utilized as a decently-strong source of IS200ATBAG1BAA1 Board hardware component and component specification information; coding for these relevant details in a series of consecutive functional naming elements. For example, this IS200ATBAG1BAA1 product number begins with an inclusion of the dual-functional IS200 series tag indirectly delegating both this IS200ATBAG1BAA1 product's normal Mark VI Series assembly as well as its domestic original manufacture location. Some of the other pertinent traits revealed through this medium include the IS200ATBAG1BAA1 Board's:

ATBA functional product acronym

Group one Mark VI Series product grouping

Normal PCB coating style

Three-fold revision history

Specifications

Part Number: IS200ATBAG1BAA1

Manufacturer: General Electric

Series: Drive Control

Product Type: Application Input/Output Terminal Board

Number of Channels: 1

Input Span: 1 - 5 V DC

Outputs: 24 V DC

Power: 28 V

Generator Current Inputs: 0 to 5 A

Analog Inputs Current: 4-20 mA

Analog Output Current: 0-20 mA

Size: 15.9 cm high x 17.8 cm

Operating Temperature: 0 to +60°C

Frequency: 50 or 60 Hz

Repair Time: 3-7 Days

Availability: In Stock

Weight: 2 lbs

Country of Origin: United States

Manual: GEH-6385

Functional Description

The IS200ATBAG1BAA1 is an Application I/O Terminal Board manufactured by General Electric for the Mark VIe Series, specifically for GE Drive Turbine Control Systems. It serves as a key component of the Innovation Series, which includes Cimplicity software, Ethernet and DCS communication capabilities, and a Windows 2000/XP-based operator interface. Due to varying voltage ratings on J6 and J7 connectors, users must exercise caution during handling or replacement. Maintenance personnel are advised to follow safety protocols, including

electrical circuit testing, to mitigate risks.

Features

Terminal Block Configuration: Includes a single 60-position terminal block that supports all J6 and J7 jumper connections to the CABP board.

Jumper Connections: There are no manually movable or customizable jumpers on the IS200ATBAG1B; however, two versions of this model exist with differing pin assignments for J6 and J7.

Connector Ratings:

The J7 connector is rated for 50V with a 1A maximum.

J6 connectors are generally rated for 225V with a 1A maximum, except for specific connectors (e.g., CONA_NO, CONA_NC, CONA_C, RLY1COM, RLY1NC, RLY1NO, RLY2COM, RLY2NC, RLY2NO, RLY3COM, RLY3NC, and RLY3NO) which have different voltage ratings.

Most connectors on the base plate are rated for 176V with a 1A maximum, while all J7 connections are rated for 50V with a 1A maximum.

Safety Recommendations: Electrical circuit testing is strongly advised before replacing the board to ensure no dangerous voltages are present, which prevents accidental exposure to hazardous currents.