GE GE □□□ Series Service Manual

IS200BPIAG1AEB

1. Description

IS200BPIAG1AEB Technical Specifications

2. Specifications

Specification	Value
OEM	**General Electric**
Product	**Series Mark VI Speedtronic**
Functional	**Part Number IS200BPIAG1AEB**
Product	**Type Bridge Personality Interface Board**
Revision	**Quantity 3 Revisions**
Backwards-Compatibility	**1st two revisions**
PCB	**Coating Type Normal Coating**

3. Product Information

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About the IS200BPIAG1AEB

The IS200BPIAG1AEB is a Drive Bridge Personality Interface Card manufactured by General Electric for their Mark VI series. The MKVI is one of the most recent steam/gas heavy-duty turbine management systems in the Speedtronic line released by GE. The Mark VI Series offers complete control, protection, and monitoring of heavy-duty turbine systems, and is adaptable and scalable for the use in a variety of applications. The MKVI is based around a 13- or 21- slot VME card rack Control Module. The Mark VI Series' specific possible wind, steam, and gas turbine applications are reinforced through its official functional series moniker as the Mark VI Turbine Control System Series. The Mark VI Series that this IS200BPIAG1AEB printed circuit board or PCB for short belongs to has to be considered one of the final-developed GE Mark product series to make use of the patented Speedtronic control system series as mentioned before, which means that it is able to attract a consistent level of industry demand in the many years beyond its initial release. This IS200BPIAG1AEB device 's greater Mark VI Series represents a significant upgrade upon the previously-available Mark V Series, given the fact that the Mark V Series' specific applications are more restricted to gas and steam turbine control system settings alone.

Hardware Tips and Specifications

The IS200BPIAG1AEB provides a connection between the control and power electronics of an IGBT ac drive. The IS200BPIAG1AEB is designed with seven board connectors. This includes its primary P1 connector that connects into the rack system and handles a variety of signals, including gate drive and shunt fault signals, application data from the BPIA board, and some bridge control connections. The board has six other male vertical pin connectors (APL, BPL, CPL, AAPL, BAPL, CAPL,) that provide connections to the phase A/B/C IGBTs. The IS200BPIAG1AEB has three transformers, six transistors, and nine resistor network arrays. It also has a 1024-bit memory device to hold revision and board information. The IS200BPIAG1AEB has a faceplate. This helps to identify the board within the rack, and also is marked with the board location. If the board is plugged into the wrong slot it may become damaged. Please follow installation guidelines as written in manuals or data sheets. The IS200BPIAG1AEB is a static-sensitive board. AX Control will ship this board in an anti-static bag to protect the board from damage during transit. Please follow all handling precautions as recommended by the manufacturer. If these are unavailable to you, they may be found within GE publication GEI-100265. While we would certainly tend to embrace a purchase of this IS200BPIAG1AEB device here at AX Control, it is of paramount importance to consider the fact that this specific IS200BPIAG1AEB PCB is not the originally-developed device of its specific Mark VI Series functional role, as that would actually have to be considered the IS200BPIAG1 parent PCB not making use of this IS200BPIAG1AEB product's full three-fold revision history.

This IS200BPIAG1AEB device, as with any Mark VI Turbine Control System Series product made available to our extended new and reconditioned inventory here, offers a specific General Electric functional role as encouraged by a number of specialized instances of circuitry added to its normal Mark VI Series assembly version. Fortunately for the sake of this IS200BPIAG1AEB personalized product page here, these circuits have been defined specifically in terms of their functionality in the IS200BPIAG1AEB instructional manual materials made available to our manuals tab above for your convenience of research. Some of this IS200BPIAG1AEB device's various circuits include its:

Two independently-isolated IGBT gate driver circuits for each IS200BPIAG1AEB phase

A third VCO Dc Link Voltage Feedback Circuit

Each of the above-mentioned circuits in this IS200BPIAG1AEB product's normal Mark VI Turbine Control System Series assembly have been named through a combination of the individual IS200BPIAG1AEB Board hardware components that they pertain to as well as their specific intended functional application. As once again described in the various IS200BPIAG1AEB Board instructional manual materials attached above, the IS200BPIAG1AEB product here's nprmal Mark VI Series assembly is also reinforced through its attachment of a serial 1024-bit memory container on its base PCB, which is responsible for revealing this IS200BPIAG1AEB device's hardware component and unique product revision history.