GE GE □□□ Series Service Manual

IS200EACFG2ABB

1. Description

SPECIFICATIONS

3. Product Information

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Part No.: IS200EACFG2ABB

Manufacturer: General Electric

Country of Manufacture: United States of America (USA)

Product Type: Exciter AC Feedback board

Availability: In Stock

Series: EX2100

Functional Description

IS200EACFG2ABB is an Exciter AC Feedback board developed by GE. It is a part of EX2100 excitation system. It is responsible for monitoring and measuring key electrical parameters to ensure the proper functioning of the excitation system in power generation applications. Designed to measure the exciter PPT AC supply voltage and current within the EX2100 Excitation Control system. The board plays a crucial role in maintaining accurate feedback for system stability and efficiency.

Features

The board contains transformers that facilitate precise measurement of three-phase voltage.

Dedicated terminals for connecting two flux/air core coils, aiding in current measurement.

The measured voltage and current outputs are distributed to three DB9 connectors, which link to controllers M1, M2, and C.

The board is designed to support a cable connection of up to 90 meters between the EACF board and the EBKP backplane board, ensuring flexible installation options in industrial settings.

Installation and Replacement Procedures

Safety Precautions: Open the auxiliary cabinet door. Use a voltage tester to check for any residual power in the circuit before handling the board. Ensure that the system is completely powered down to avoid electrical hazards.

Disconnecting the Existing Board: Verify that all cables are labeled with the correct connector names (as marked on the board) to facilitate reconnection. Voltage Inputs - Disconnect the wiring from screw connectors TB1, TB2, and TB3. Coil Inputs - Disconnect the wiring at TB4.

Removing the Existing Board: Unscrew and remove the three screws securing the EACF board to the mounting standoffs. Gently take out the board from its position, ensuring no damage to adjacent components.

Installing the New Board: Position the new EACF board in the same orientation as the removed one. Secure the board in place using the three screws removed in step 3.

Reconnecting the Cables: Reconnect all previously labeled cables and wires to the appropriate terminals on the new board. Ensure that all cables are properly seated at both ends to avoid connection issues. Double-check connections to ensure accuracy before powering on the system.