GE GE □□□ Series Service Manual

IS200DAMEG1ABA

1. Description

SPECIFICATIONS

2. Specifications

Specification	Value
Drive	**Power Rating Frame 65**
Functional	**Acronym/Abbreviation DAME**
IGBTs	**per Phase Leg (3 Phase Legs Per Drive) 1 IGBT Module (6 IGBTs)**
LED	**Indicators None**
Number	**of Boards per Drive Phase Leg 1, Used for all Three Phases**
Pin	**Quantity 6**
Powerrex	**IGBT Model CM100TF-28H**
Product	**Type Amplifier//Interface Board**
Instruction	**Manual GEI-100262A**
About	**the IS200DAMEG1A**
The	**IS200DAMEG1A is part of a series of models known as Gate Driver Amplifier/Interface Boards within the Mark VIe series manufactured by General Electric. This model was designed to control interfacing between power switching devices, which are known as IGBTs for low voltage drives; and the control rack of the Innovation Series. The DAME board is used to provide interfacing without any type of amplification and has no power inputs. This board is one of six different variations and has a drive power rating of sixty-five frames.**

3. Product Information

SPECIFICATIONS

Part Number: IS200DAMEG1ABA

Manufacturer: General Electric

Function: Gate Drive Amplifier and Interface board

Frame Rate: 65

Functional Abbreviation DAME

LED Indicators None

Pin Quantity 6

Manual GEI-100262A

Power supply input: +15/-7.5

Powerrex IGBT: CM100TF-28H

No.of board/drive: 1

IGBT/phase leg: One

Series: Drive Control

Country of Manufacture: United States (USA)

Functional Description

IS200DAMEG1ABA is a gate amplifier/interface board developed by General Electrics. It is a part of GE drive control system. It is used to connect power switching devices in the Innovation Series control rack. There are no test points, configurable items, or fuses on this board. In low voltage drives, it serve as an interface between the power switching devices or IGBTs and the control rack. They provide an interface with no amplifying and no power input. DAM boards are used to connect the control rack's collector terminals, emitter, and IGBT gate, as well as the Bridge Personality Interface board. This model was created to control the interfacing between power switching devices known as IGBTs for low voltage drives and the Innovation Series control rack. The DAME board is used for interfacing without amplification and has no power inputs. This board is one of six variations and has a drive power rating of 65 frames. The board will be used with a phase leg drive, and there will only be one board that can be used with all three phases. There will also be a variety of different IGBTs used per phase leg; however, this particular board only has one IGBT module that will be used for all three phases.

IS200DAMEG1A Features

DAME is used for interfacing without any type of amplification and does not have any power inputs. This board is one of six variations and has a drive power rating of 65 frames. The board is used with a phase leg drive, and there will only be one board that can be used with all three phases. There are also various IGBTs that will be used per phase leg; however, this particular board only has one IGBT module that is used for all three phases. For input and output connection with the BPIA board, there are three connectors: CPL for phase C marked as U, BPL for phase B marked as V, and APL for phase A marked as W.

The board has six connectors. Each pin has a different name and description; for example, pin five is labeled as common and is named _PCOM; this common pin is the emitter of phases in the positive/upper IGBT model.

If this board needs to be replaced, either the IGBT or the DAME board must be replaced as they are soldered together. Please turn off the power to the control before removing or inserting the DAMEG1A to avoid potential shock.

For input and output connection with the BPIA board, there are three connectors: CPL for phase C marked as U, BPL for phase B marked as V, and APL for phase A marked as W.

Product Attributes

Signal Input: The board receives a low-level input signal from a field device such as a sensor, switch, or controller. The input signal is amplified to a higher level suitable for further processing.

Amplification: The board has a built-in amplifier that amplifies the input signal to a level that can be easily processed by the control system.

Isolation: The board provides electrical isolation between the input signal and the output signal, which helps protect the control system from any electrical noise or surges in the input signal.

Signal Output: The board provides a high-level output signal that can be used to trigger an alarm, control a motor or valve, or interface with a PLC or DCS system.

Protection: The board provides protection features such as overvoltage protection and short-circuit protection to safeguard the connected equipment.

IS200DAMEG1A Technical Specifications

Drive Power Rating Frame 65

Functional Acronym/Abbreviation DAME

IGBTs per Phase Leg (3 Phase Legs Per Drive) 1 IGBT Module (6 IGBTs)

LED Indicators None

Number of Boards per Drive Phase Leg 1, Used for all Three Phases

Pin Quantity 6

Powerrex IGBT Model CM100TF-28H

Product Type Amplifier//Interface Board

Instruction Manual GEI-100262A

About the IS200DAMEG1A

The IS200DAMEG1A is part of a series of models known as Gate Driver Amplifier/Interface Boards within the Mark VIe series manufactured by General Electric. This model was designed to control interfacing between power switching devices, which are known as IGBTs for low voltage drives; and the control rack of the Innovation Series. The DAME board is used to provide interfacing without any type of amplification and has no power inputs. This board is one of six different variations and has a drive power rating of sixty-five frames. The IS200DAMEG1A board will be used with a drive that uses phase legs, this particular board will only have one board that can be used with all three phases. There is also a variety of different IGBTs that will be used per phase leg; this particular board only has one IGBT module that is used for all three phases. There are three connectors for input and output connection with the BPIA board; CPL for phase C marked as U, BPL for phase B marked as V, and APL for phase A marked as W.

There are six connectors on the IS200DAMEG1A board. Each pin has a different name as well as different descriptions, pin five is named _PCOM and is labeled as common, this

common pin is the emitter of phases in the positive/upper IGBT model.