# GE Service Manual

DS200FSAAG2ABA

## 1. Description

DS200FSAAG2ABA

## 3. Product Information

DS200FSAAG2ABA | GE | PC Amplifier Board

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SPECIFICATIONS:

Part Number: DS200FSAAG2ABA

Manufacturer: General Electric

Series: Drive Control

Product Type: Field Supply Amplifier Board

Board Size: 52 mm x 62 mm

Operating Temperature: 0 to 50° C

Country of Origin: USA

Availability: In Stock

Manual: GEH-6005

FUNCTIONAL DESCRIPTION:

DS200FSAAG2A is a Field Supply Gate Amplifier Board manufactured and designed by General Electric as part of the Mark V Series used in GE Drive Control systems. There are 5 jumpers, a 10-pin connector, 2 fuses, and more on the GE Field Supply Amplifier Board. It is also filled with a variety of test points. A 10-pin terminal connector is present. It has parts that take in a signal and amplify it by sending it through a transistor, integrated circuit (IC), or tube that combines it with more current from a power source. The external field exciter modules include incoming line fuses, metal-oxide varistor (MQV) voltage suppressors, ac and de-line jilters, a thyristor bridge, and a DS200FSAA Field Supply Gate Amplifier Board (FSAA). The FEAN module also includes a cooling fan.

FEATURES:

Power Supply and Current Control: Field power is supplied through fuses on the SDCIG1 board or the external field exciter module. A thyristor diode bridge (on the SDCIG1) or thyristor bridge (in the external field exciter module) controls the field current. The SDCI or DCFB decodes Held Ering signals from the SDCC to direct firing pulses to gate pulse transformer drivers for the thyristors in the bridge.

Voltage and Frequency Conversion: The field power is applied through a shunt. A voltage-controlled oscillator (VCO) circuit on the SDCI or DCFB board converts the voltage across the shunt into a frequency signal representing field current. The frequency signal is sent to the SDCC card, which controls the phase angle of the thyristor firing.

SCR Power Conversion Bridge: The SCR power conversion bridge receives 3-phase power. G, C, and C Extension (CX) frame drives include fuses FU1, FU2, and FU3 on the incoming ac power lines. J, K, L, and M frame drives include fuses FU1 through FUI2 on the deleg lines.

SCR Bridge Configuration: The SCR bridge is made up of SCR modules, sized for the drive's current rating. The hardware drawings and elementary diagrams included in the appendices show the SCR bridges for each frame size.