GE GE □□□ Series Service Manual

DS200TBQCG1AAA

1. Description

DS200TBQCG1A DS200TBQCG1AAA Technical Specifications

2. Specifications

Specification	Value
Manufacturer	**GE General Electric**
Series	**Mark V**
Part	**Number DS200TBQCG1A DS200TBQCG1AAA**
Functional	**Description RST Analog Termination Board**
Functional	**Acronym TBQC**
PCB	**Coating Normal Coating**
Functional	**Revision 1 A**
About	**the DS200TBQCG1A DS200TBQCG1AAA**
This	**DS200TBQCG1A DS200TBQCG1AAA General Electric product offering is a printed circuit board originally produced to exist as a member of their Mark V Series. The Mark V Series is a series of automated drive assemblies and drive assembly component parts specifically designed for adoption into the control and management systems of gas, steam, and wind turbines compatible with GE products. This series is also considered to be one of the final GE product series released that incorporates the patented Speedtronic technology into its products.**

3. Product Information

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This DS200TBQCG1A DS200TBQCG1AAA PCB is really better-definable by its official functional product description as an Analog Input Milliamp I/O Termination Module, as it appears in original General Electric and Mark V Series instructional manual materials.

This DS200TBQCG1A module is by no means the original device of its functionality to exist within the Mark V Series, however; that would be the DS200TBQCG1 parent printed circuit board missing this DS200TBQCG1A PCB's A-rated functional product revision.

Hardware Tips and Specifications

As with any product made available to our stock of new or reconditioned General Electric PCB products, this DS200TBQCG1A module offering introduces its function through the addition of a series of specific and necessary hardware choices. The GE RST Analog Termination Board DS200TBQCG1A features 2 terminal blocks. Each block contains 83 terminals for signal wires. The GE RST Analog Termination Board DS200TBQCG1A also contains:

15 jumpers

3 40-pin connectors

3 34-pin connectors

The maximum number of signal wires that you can connect to the terminals is 166. TB1 and TB2 are the IDs associated with the terminal blocks. Also, each terminal is associated with a numerical ID. So, to ID a specific terminal you can use the terminal block ID and the terminal numerical ID together. For example, TB1 83 refers to terminal 83 on terminal block TB1. When you are preparing to replace the GE RST Analog Termination Board DS200TBQCG1A, best practice is to prepare tags that you can tie on each signal wire attached to a terminal. Write on each tag the terminal block ID and the terminal numerical ID.

Several important and different styles of Mark V Series connectors have been made available to the assembly of this TBQC-abbreviated Analog Input Milliamp I/O Termination Module; each of which is accompanied by their own factory-printed reference designator. Some of these various connectors include:

the JBR TCQA Board Input and Output Signals Connector

the JFR TCQA Board LVDT/R Position Signals Connector

the JBS/T Connector

the JFS/T Connector

the TEST Connector

As you may have noticed, all of these listed connectors have been named through a combination of their compatible Mark V Series interfacing potentials, their factory-printed nomenclature labels, and their application relevant to the DS200TBQCG1A board itself and the greater Mark V Turbine Control System Series. The JBS/T, JFS/T and TEST Connectors included in the assembly of this DS200TBQCG1A Analog Input Milliamp I/O Termination Module have not been named as such as they typically go unused during normative function of this DS200TBQCG1A Analog Input Milliamp I/O Termination Module, and should be ignored as vestigial structures. Connectors are not the only relevant hardware component of note detailed in this DS200TBQCG1A Module's instructional manual materials, as hardware selections are made possible through this DS200TBQCG1A PCB's inclusion of 15 total jumpers, which have factory printed nomenclature labels ranging from BJ1 to BJ17. These jumpers, as well as any other hardware component on the base circuit board of this DS200TBQCG1A product, should receive some form of protection from this DS200TBQCG1A PCB's normal style of PCB protective coating, which envelops and protected individual hardware elements on the DS200TBQCG1A Module's base circuit board on a functional priority basis.

SPECIFICATIONS

Part No.: DS200TBQCG1A

Manufacturer: General Electric

Country/Region of Manufacture: United States of America

Product Type: Analog Input, Milliamp Input/Output Termination Module

Series: Mark V

DS200TBQCG1A is an Analog Input Termination Module developed by GE. On the R1, R2, and R3 cores, it is at position 9. The TCQA board in each core is connected to via TBQC, which also connects the LVDT/R position inputs and the 4-20 mA inputs. The TCQA boards in the corresponding cores are read for the 20–200 mA outputs. Using hardware jumpers on the TBQC terminal board, the outputs can be set to have either a 20 mA maximum current or a 200 mA maximum current.

It has two terminal blocks, each of which has 83 connections for signal wires. The Termination Board also comes with 15 jumpers, three 40-pin connections, and three 34-pin connectors. The terminals may accept 166 different signal wire connections in total. TB1 and TB2 are the IDs connected to the terminal blocks. Each terminal is given a specific numerical ID.

DS200TBQCG1A Connections

JBR writes the 4–20 mA input signals and reads the mA output signals to and from the TCQA board in the corresponding cores.

JFR - Writes the relevant cores on the TCQA board using the LVDT/R position input signals.

JBS/T - Typically not used.

JFS/T - Typically not used.

TEST. - Typically not used.

Hardware Configuration for DS200TBQCG1A

The mA input signals #1 through #15 are connected to DCOM by BJ1 through BJ15. The BJ16 and BJ17 connectors allow you to choose between a 20 mA or 200 mA maximum current output range for the two mA output signals.