GE GE □□□ Series Service Manual

IS200SCNVG1ADC

1. Description

IS200SCNVG1ADC Technical Specifications

2. Specifications

Specification	Value
Part	**Number IS200SCNVG1ADC**
Series	**Mark VI and Innovation Series Drives**
Original	**Manufacturer GE Boards and Turbine Control**
Functional	**Acronym/Abbreviation SCVN**
Product	**Type Interface Board**
Product	**Description SCR-Diode Converter Interface Board**
Used	**With Innovation Series**
Weight	**10 ounces**
Shipping	**Dimensions 18x15x15 inches**

3. Product Information

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About the IS200SCNVG1ADC

This IS200SCNVG1ADC SCR-Diode Converter Interface Board printed circuit board was originally designed and manufactured specifically for placement in the Mark VI Turbine Control System Series, as was revealed originally through the brief IS200SCNVG1ADC SCR-Diode Converter Interface Board product description above. The Mark VI Series that this IS200SCNVG1ADC SCR-Diode Converter Interface Board belongs to pertains to a specific set of possible functional applications in the control and management systems of General Electric-compatible gas, wind, and steam turbine automated drive assemblies. This must be treated as a massive functional upgrade upon the previously-released Mark V Turbine Control System Series of a similar full extended GE product series title, as the Mark V Series was only considered to pertain to gas and steam-based turbine functional applications alone. This IS200SCNVG1ADC SCR-Diode Converter Interface Board's greater Mark VI product series is also lauded on its greater automated industrial marketplace given its status as one of the final-developed GE Mark product series to incorporate the patented Speedtronic control system technology into many of its different product options.

Hardware Tips and Specifications

The IS200SCNVG1ADC is an SCR-Diode Converter Interface Board created by General Electric as part of the Mark VI Speedtronic series. The part is used within stand-alone 1000 and 1800 amp Innovation Series SCR-Diode Converters as a control to bridge interface. The board cannot be used to drive parallel SCRs from the same board, but it can be used for 6-pulse sources driving 3 SCRs per board. There are a number of specific circuits that the IS200SCNVG1ADC model has; each of which should be accompanied on the base PCB of this IS200SCNVG1ADC SCR-Diode Converter Interface Board product by their own factory-printed nomenclature labels. Some of the specific circuits included in this IS200SCNVG1ADC SCR-Diode Converter Interface Board device's normal Mark VI Series assembly are the following:

SCR gate driving (3)

Input current sensing (3)

Line-to-line voltage feedback (2)

Dc link voltage feedback (1)

DB IGBT VCE feedback (1)

Dynamic braking IGBT gate driver (1)

The IS200SCNVG1ADC is designed to mount within Slot #6 of the Innovation rack. It connects to J15 of the CABP board. The SCNV has an add-only memory device that includes its id and revision information. This information can be accessed through the P1 connector via the BRDID data line. The power supply of this model is received Vdc power through its P1 connector. The board also receives secondary power from its four transformers. The IS200SCNVG1ADC has no adjustable hardware like fuses or LED indicators. The four test points located on the board are for development use and should not be accessed by the user due to the high voltage present on the board. This model is equipped with a 128-pin P1 backplane that allows interfacing with other boards. It also has six plug connectors that interface with current shunts, dc links, and gate drivers.