GE Service Manual

IS200BPVDG1BR1A

1. Description

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Specifications

Part Number: IS200BPVDG1BR1A

Manufacturer: General Electric

Series: Mark VI

Product Type: System Rack

Number of Spaces for Connecting Boards: 13

Operating Temperature Range: 32 to 113°F

Storage Temperature Range: -40 to +158°F

Humidity: 5-95 percent non-condensing

Country of Manufacture: United States of America (USA)

Availability: In Stock

Functional Description

The IS200BPVDG1BR1A is a system rack developed by GE as an integral component of the Mark VI control system. It is designed as a sturdy, secure, and organized housing unit specifically to accommodate the diverse array of boards required for the operation and control of the Mark VI system.

Design and Construction

The rack features a robust, durable construction designed to ensure reliability in demanding environments.

It includes 13 dedicated spaces for connecting boards, allowing for the efficient integration and arrangement of essential system components.

Environmental Specifications

Humidity Tolerance: The rack can operate effectively in environments ranging from 5 to 95 percent non-condensing humidity, protecting internal electronics from moisture damage.

Thermal Resilience: It is engineered to maintain consistent performance within an operating temperature range of 32 to 113°F and preserves its integrity during storage across a range of -40 to +158°F.

Rack Power Supply

Function: Mounted on the side of the VME control and interface racks, the power supply provides necessary power to the VME backplane to support various modules.

Voltage Outputs: It delivers multiple DC voltage outputs to the backplane, including +5 V, ±12 V, ±15 V, and ±28 V. An optional 335 V DC output is available specifically to power flame detectors connected to the TRPG (Turbine Remote Power Generator).

Voltage Input Options:

125 V DC Input: Powered from a Power Distribution Module (PDM) for higher voltage system requirements.

24 V DC Input: A low-voltage version for 24 V DC operation.

Versatility: The availability of these multiple input options and voltage outputs provides the flexibility and adaptability necessary to meet diverse power requirements within the Mark VI control system, ensuring seamless and reliable operation.