GE GE □□□ Series Service Manual

IS200TRLYH1BED

1. Description

SPECIFICATIONS

3. Product Information

SPECIFICATIONS

Part No.: IS200TRLYH1BED

Manufacturer: General Electric

Country of Manufacture: United States of America (USA)

Temperature rating: 30 to 65 oC

Size: 17.8 cm wide x 33.02 cm high

Number of relay channels: 12

Product Type: Relay Output Board

Availability: In Stock

Series: Mark VIe

Functional Description

IS200TRLYH1BED is a relay output board developed by GE. It is a part of Mark VIe system. The board is designed to accommodate and control up to 12 plug-in magnetic relays. It include jumper configurations, power source options, and on-board suppression capabilities. The relay module serves as a reliable and flexible solution for controlling plug-in magnetic relays in industrial applications. With its configurable relay circuits, multiple power source options, and on-board suppression capabilities, it offers versatility, reliability, and ease of integration, making it an ideal choice for a wide range of control and automation tasks.

Relay Circuit Configuration

The first six relay circuits on the TRLYH1B board offer flexible configuration options. They can be jumper-configured to provide either dry, Form-C contact outputs or to drive external solenoids, depending on the specific requirements of the application.

This adaptability allows for customization based on the desired output type and functionality.

Power Source Options

The board supports multiple power source options to cater to different voltage requirements.

A standard 125 volts DC or 115/230 volts AC source is available, providing flexibility in power supply selection. Additionally, an optional 24 volts DC source is offered for specific applications requiring this voltage range. Each power source comes with individual jumper-selectable fuses, ensuring protection and safety for the system.

On-Board Suppression

For enhanced reliability and protection against electrical disturbances, the board features on-board suppression mechanisms.

These suppression components help mitigate voltage spikes and electrical noise, safeguarding the connected relays and ensuring stable operation even in challenging environmental conditions.

Customization and Adaptability

With its configurable relay circuits, versatile power source options, and built-in suppression features, the relay board offers a high level of customization and adaptability. It can be tailored to meet the specific needs of diverse applications, providing reliable control and operation in various industrial settings.

Relay Configuration

6 Relays with Optional Solenoid Driver Voltages: These six relays can be configured with optional solenoid driver voltages, providing versatile control options to accommodate various output requirements.

5 Relays with Dry Contacts Only: Five relay channels are dedicated solely to dry contacts, offering straightforward switching capabilities without additional voltage requirements.

1 Relay with 7A Rating: One relay channel features a robust 7A rating, suitable for handling higher current loads with reliability and efficiency.

Rated Voltage on Relays

a: Nominal 125V DC or 24V DC: The relays are rated to operate with a nominal voltage of 125V DC or 24V DC, ensuring compatibility with different voltage standards and system configurations.

b: Nominal 115/230V AC: Additionally, the relays support a nominal voltage of 115/230V AC, providing versatility in power source options for AC-powered applications.

Maximum Load Current

a: 0.6A for 125V DC Operation: For 125V DC operation, the maximum load current is rated at 0.6A, ensuring safe and efficient operation within specified limits.

b: 3.0A for 24V DC Operation: In 24V DC operation, the relays can handle a maximum load current of 3.0A, accommodating higher current demands with reliability.

c: 3.0A for 115/230V AC, 50/60Hz Operation: For AC-powered applications operating at 115/230V AC and 50/60Hz frequencies, the relays support a maximum load current of 3.0A, ensuring robust performance under varying load conditions.

Response Time and Inrush Current

Max Response Time On/Off: The relays boast a maximum response time of 25ms, ensuring swift and efficient switching operations.

Maximum Inrush Current: With a maximum inrush current of 10A, the relays can handle sudden surges in current without compromising performance or reliability.