GE Service Manual

IS200SRLYH2AAA

1. Description

IS200SRLYH2AAA Technical Specifications

2. Specifications

Specification	Value
Manufacturer	**General Electric**
Series	**Mark VI Speedtronic**
Product	**Type IS200SRLYH2AAA Simplex Relay Terminal Board**
Functional	**Part Number IS200SRLYH2A**
Revision	**Total 1 Revision**
Functional	**Revision 1 A**
Mark	**VI Series Grouping Group 2**

3. Product Information

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About the IS200SRLYH2AAA

Greater Product Series Information

General Electric created the IS200SRLYH2A as a part of their Mark VI series for gas and steam turbine management. The Mark VI is one of the series that make up the Mark line. Mark systems have been in use since the late 1960s, when the Mark I was first introduced. The IS200SRLYH2A is a printed circuit board or PCB. This IS200SRLYH2A Simplex Relay Terminal Board device's Mark VI Series:

added the alternative energy-focused wind turbine possible application onto the rudimentary ones established with the Mark I

is considered a legacy product series given its production discontinuation

Hardware Tips and Specifications

The IS200SRLYH2A is a printed circuit board with a range of various components. These components range in size from small to large, and include:

One large terminal block

solid green with white numbers

on the left edge of the IS200SRLYH2AAA

this terminal block is known as TB1

may contain forty-eight (48) terminals in total

twenty-four (24) of these are on the top

the other twenty-four (24) are situated on the bottom row

One (1) hole can be found at either end of the terminal block

holes are surrounded by metal ring

used to attach the IS200SRLYH2A to other components

Positioned in the center of the IS200SRLYH2A, there is a collection of twelve (12) devices which are known as relays or contactors. All of these relays are solid black. They are each labeled with the letter K, from K1 through K12.

These components are divided into three (3) groups of four (4) relays each which are aligned horizontally on the IS200SRLYH2A in parallel rows. On either side of these relays is a long grey component which is identified as JW1 or JW2. Several capacitors which are small, black and rectangular have also been placed on the IS200SRLYH2A.

Product Overview

Series: Mark VIe

Product Type: Simplex Relay Output Terminal Board

Number of Relay Channels: 12

Max Load Current: 125 V DC

Board Size: 15.9 cm high x 17.8 cm

Operating Temperature: -30 to 65°C

Technology: Surface Mount

Country of Origin: USA

Manual: GEH-6721D

Functional Description

The IS200SRLYH2AAA is a Simplex Relay Output (SRLY) terminal board designed by General Electric for the Mark VIe Series, specifically for use in GE distributed turbine control systems. It is a simplex S-type board designed to accommodate either a PDOA or YDOA I/O pack. The board features 12 form C relay output circuits distributed across 48 customer terminals. It maintains the same physical dimensions, terminal placements, and I/O pack mounting configurations as other S-type terminal boards. The design ensures no components exceed the height of the attached I/O pack, allowing for double stacking of the terminal boards. Each relay utilizes an isolated contact pair to provide position feedback to the I/O pack. The model is equipped with pluggable Euro-style box-type terminal blocks and two connectors that support various option boards.

Installation

The SRLY and a plastic insulator are mounted to a sheet metal carrier, which is then secured to a cabinet with screws. If an option board is used, it plugs into the SRLYH2AAA and is held in place by the force of the connectors. The terminals are defined as follows:

NC: Normally closed contact of a form C relay.

COM: A common point of a form C relay contact.

NO: Normally open contact of a form C relay.

Operation

There are two groupings of SRLY. On the SRLYH2AAA, option board connectors JW1 and JW2 are absent and replaced by fixed box terminals. In versions that include connectors JW1 and JW2, the option board connection is supported by pluggable type terminals. When an option board is absent, the SOL terminal connected to each relay has no connection. For all customer screw and JW1 circuits, the board is intended to support a current rating of 5 A and a voltage clearance greater than that required for 250 V AC. The limiting factor for each application is the relay rating.

Configuration

The SRLY terminal board does not use any jumpers. Six jumpers on the WROBH1 option board are used to turn power to a relay on or off. Boards are created when each of the six jumpers is in position. The jumper is removed from the board when a relay is to be used with dry contacts and no power distribution is intended. The WROFH1 board is not connected to any jumpers. The terminal point selected as the relay common determines whether a series fuse is included or excluded for each relay. The WROF fuse connected with each relay may be eliminated to enable direct use of the fuse voltage sensing circuit as a voltage detector. SWOC maintains a large stock of GE Mark VIe Distributed Control System replacement parts.