AST2E-16SRN Relay Terminal Module

User's Manual (Hardware)

[1. Overview]

1.1 Selection of the Applicable Models

- 2-wire load can be connected.
- Self-up screws are adopted so that the terminal screws do not fall off.
- There are five types of dedicated cables, each having different cable lengths.
- By using the dedicated cable, it is possible to install the relay terminal module in a place for future reference.

1.2 Overview

- This User's Manual explains the specifications and part identification of AST2E-16SRN.

1.3 INSTALLATION PRECAUTIONS

- Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

1.4 DESIGN PRECAUTIONS

- Before touching the module, always touch grounded metal, etc. to discharge static electricity.

1.5 DISPOSAL PRECAUTIONS

- Failure to completely shut off the power supply phases may cause electric shock, fire or malfunction.

[2. Specifications]

2.1 General Specifications

- Rated switching voltage/current load: Over 30VDC T=7ms, max. 2 wires per point
- Maximum switching frequency: 3,600 times per hour
- Noise suppression: None

2.2 Performance Specifications

- Life (10 thousand times)
- Isolation method: Relay insulation
- Operating temperature: 0°C to +50°C
- Relative humidity: 30% to 90%
- External supply voltage: 100V to 120VDC
- Rated switching voltage/current load: Over 240VAC COSφ=-1

3. Part Identification and External Dimensions

- Dimensions: Width (180.5mm) x Depth (35.0mm) x Height (42.0mm)
- Weight: 280g

4. Wiring

- The terminal block is an insulated terminal, so that the terminals do not touch each other when wiring is performed.

[SAFETY PRECAUTIONS]

-Stuffing box (if used with this product)

- Be careful when handling any electric conductive parts or electronic components that may cause electric shock, fire or malfunction.

-WARNING

-Do not directly touch the module's conductive parts or electronic components.

-Load a module by pressing against the DIN rail until a clicking sound comes.

-CAUTION

-Do not directly touch the module's conductive parts or electronic components.

-Make sure that the end users read this manual and then keep the manual in a safe place for future reference.

-Observe the precautions of both levels because they are important for personal and system safety.

-In this manual, the safety precautions are classified into two levels: "WARNING" and "CAUTION".

-User must familiarize themselves with the general specifications and part identification of the product.

-Always use the product in accordance with the instructions contained in this manual and the relevant manuals.

-When the product is used in hazardous environments, it may cause electric shock, fire or malfunction.

-Caution must be exercised when handling any electric conductive parts or electronic components that may cause electric shock, fire or malfunction.

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5. Installation

5.1 Installation Orientation

The following figures show the orientation of installation.

- Horizontal orientation
- Vertical orientation

5.2 Replacing the Relay

1. Pull out the relay from the DIN rail.
2. Pull off the top cover of the module.
3. Insert the relay removal tool from the top of the relay.
4. Pull one relay from the top direction, taking note of the relay installation direction.
5. After confirming that the relay is firmly connected and there is no bent in its lead, turn on the power supply.

5.3 Installation and Removal to/from a DIN Rail

Installation to a DIN Rail

1. Insert the top of the DIN rail to the upper side of the groove for the DIN rail.
2. Fix the module in the DIN rail by pressing against the rail.

Removal from a DIN Rail

1. Pull out the hook of the DIN rail to the upper side of the groove for the DIN rail.
2. Fix the module in the DIN rail by pressing against the rail.

Confirmation: The module is securely installed before turning on the power supply to the first time after installation.

6. Precautionary Items for Relay Replacement

- No damage caused by failure to observe the precautions or installation failure to the relay.
- The relay is replaced in the following manner.

7. Information for the New China RoHS and the Chinese Standardized Law

[Note: This section is not in English.]

[English translation: Mitsubishi Electric Corporation]

8. WARRANTY

Mitsubishi Electric Corporation will not be held liable for damage caused by failure to observe the precautions or installation failure to the relay. The relay is replaced in the following manner.

Specifications subject to change without notice.

MITSUBISHI ELECTRIC CORPORATION

EMERGENCY, TRADE, AND BUSINESS ENQUIRIES

For emergency inquiries, trade, and business inquiries, please contact Mitsubishi Electric Corporation.