## 1 INVERTER INSTALLATION AND PRECAUTIONS

### 2 Installation and Wiring

#### 2.1 Removal and Reinstallation of Covers

- **Removal of the front cover:**
  - Turn OFF the power supply. (The power supply is OFF and the power cord is removed.)
  - Confirm that the stopper is located in the setting position.
  - Use a flathead screwdriver to remove the half-hole above the "PUSH" mark on the wiring cover to push the stopper behind the wiring cover.

- **Reinstallation of the front cover:**
  - Place the cover on the inverter so that the right side of the cover points to the right and thread the six screws (screw size: M4 × L6).
  - Push the stopper into the half-hole using a flathead screwdriver and then secure it using a screwdriver. Be sure to match the location of the stopper to the location on the wiring cover.

#### 2.2 Main circuit terminal layout and wiring to power supply and motor

- **Three-phase 230 V class:**
  - Use crimp terminals and stripped wire for the control circuit wiring. If only a single wire is used, the wire can be stripped and used without a ferrule.
  - Connect the end of wires (crimp terminal or stranded wire) to the terminal block.

### 2.3 Applicable cables and wiring length

#### 2.4 Terminal connection diagram

### 2.5 Details on the main circuit terminals and the control circuit terminals

### 2.6 Control circuit terminal layout

### 3 BASIC OPERATION

#### 3.1 Components of the operation panel

#### 3.2 Operation panel functions

### 4 PARAMETERS

### 5 LIST OF FAULT DISPLAYS

For more information on the product and specifications, please refer to the Mitsubishi Electric website.
6 SPECIFICATIONS

6.1 Inverter rating

- Three-phase 380 V power supply

- Applicable voltage range: 400 V ±10% (17 PV input)
- 415 V ±10% (17 PV input)

- Applicable motor capacity (kW)
  - 1.5
  - 2.2
  - 3.7
  - 5.5
  - 7.5
  - 11.0

- Applicable reactor size (A)
  - 1.9
  - 1.9
  - 1.9
  - 2.4
  - 2.4
  - 2.4

-犯规 and the output voltage for each capacity is as follows:
  - 400 V ±10% (17 PV input)
  - 415 V ±10% (17 PV input)

- The maximum output voltage does not exceed the power supply voltage. The maximum output voltage can be changed within the setting range. The maximum point of the voltage waveform at the output side of the inverter is as follows:

- The amount of braking torque is the average short-term torque (which varies depending on motor loss) that is generated when a motor decelerates in the shortest time by itself from 60 Hz. It is not the amount of mechanical load when the motor is stopped.

- The power supply capacity varies with the value of the power supply side impedance (including those of the input reactor and cables).

- The inverter should be installed in a vertical position with a maximum inclination of ±10°. The inverter protective structure is regarded as IP00 if the cover is not fixed.

7.2 Instructions for UL and cUL

- The equipment is intended for indoor use only. It is not suitable for outdoor use.

- The equipment is intended for use in Class I, Division 2, Groups A, B, C, D, E, F, and G.

- The equipment is intended for use in Class I, Division 2, Groups A, B, C, and D.

- The equipment is intended for use in Class I, Division 2, Groups A, B, C, and D.

- The equipment is intended for use in Class I, Division 2, Groups A, B, C, and D.

7.3 SERIAL number check

- The SERIAL number can be checked on the inverter rating plate or package.

7.4 Instructions for EAC

- The inverter, including the power supply and the motor, meets the requirements of the EAC marking.

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7.5 Restricted Use of Hazardous Substances in Electronic and Electrical Products

- The list of national standards and technical specifications in particular and per product group is applied to the products shown below based on the Management System for the Restriction of Hazardous Substances (RoHS) and on the Restriction of Hazardous Substances (RoHS) and on the Restriction of Hazardous Substances (RoHS).

8 WARRANTY

- For additional information, refer to the FR-E860 Instruction Manual (Connection).