1 INVERTER INSTALLATION AND PRECAUTIONS

When installing the inverter on the control panel, ensure that the clearances are met between the inverter and the control panel. Ensure that the inverter is securely mounted with screws to prevent vibrations. The inverter is sensitive to vibrations.

1.1 Electrical precautions

- Use cables of recommended gauge size to ensure that the voltage drop will be 2% or less.
- Use larger diameter cable when the wiring distance is long or when it is desired to decrease the voltage drop (torque reduction) in the low speed range.

1.2 Mechanical precautions

- Install the inverter on a strong and vibration-free surface with screws.
- Tighten the mounting screws of the front cover. (Tightening torque: 0.6 to 0.8 N·m)

2 INSTALLATION AND WIRING

2.1 Removal and reinstallation of covers

- Remove the front cover to access the terminals.
- Reinstall the front cover after connecting the cables.

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

- Three-phase 55 V class
- Use a large diameter cable for long wiring distances.

3 BASIC OPERATION

3.1 Components of the operation panel

- The operation panel is used to adjust the parameters.

4 PARAMETERS

- For details, refer to the FR-E800 Instruction Manual (Communication) IB-0600871 ENG.
- For details, refer to the PLC Function Programming Manual IB-0600492 ENG.

5 LIST OF FAULT DISPLAYS

For details, refer to the FR-E800 Instruction Manual (Communication) IB-0600871 ENG.
### Inverter rating

- **Three-phase 370 V power supply**

<table>
<thead>
<tr>
<th>Application</th>
<th>FR-E860-0017 (0.75 kW)</th>
<th>FR-E860-0061 (3.7 kW)</th>
<th>FR-E860-0040 (2.2 kW)</th>
<th>FR-E860-0120 (7.5 kW)</th>
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<tr>
<td>Current (AC)</td>
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<td>63 A</td>
<td>32 A</td>
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<tr>
<td>Voltage</td>
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<tr>
<td>Power factor</td>
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<tr>
<td>Efficiency</td>
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<td>98%</td>
<td>98%</td>
<td>98%</td>
</tr>
</tbody>
</table>

### Inverter installation environment

- **Input rating**
  - Country of origin: **Japan**
  - Input voltage: 230 V, 400/415 V
  - Input frequency: 50 Hz, 60 Hz

### Instructions for EAC

- **For installation in the United States, branch circuit protection must be provided in accordance with the National Electrical Code and any applicable provincial codes.**

### Instructions for UL and cUL

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

### Serial check

- **SERIAL number**
  - Serial no.: 356E-066D-00000000
  - Country: **Japan**
  - Manufacturer: **Mitsubishi Electric**

### 7.5 Restricted Use of Hazardous Substances in Electronic and Electrical Products

- **Reference Standard (Requirement of Chinese standardized law)**
  - For technical standards and management devices, consult Chinese standards.

### 8 WARRANTY

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