1. Examine the installation site
   Safety instructions

   **WARNING!** Do not install the drive in locations with an explosive atmosphere.
   Do not install the drive near other equipment that generates a magnetic field.
   Do not install the drive near equipment that generates radiation.
   Do not install the drive in locations with high ambient temperature or humidity.
   Do not install the drive in locations with high vibrations or shock.
   Do not install the drive in locations with high dust or grease content.

2. Fasten the lower edge of the drive to the mounting screws.

3. Measure the insulation resistance
   Drive:
   - Connect the insulation resistance test on the drive, because you cannot change the drive output terminals.
   - Connect the insulation resistance test on the drive, because you cannot change the drive output terminals.
   - Use a voltage of 500 VDC or 1000 VDC to measure the insulation resistance.
   - The insulation resistance measurement must be repeated after the power has been turned off.

4. Select the cables
   - Use a symmetrical shielded cable
   - Use a shielded cable
   - Use a symmetrical shielded cable
   - Use a shielded cable
   - Use a shielded cable
   - Use a shielded cable
   - Use a shielded cable
   - Use a shielded cable

5. Connect the cables
   **Connection diagram**

6. Connect the control cables
   **Connection procedure**

7. Check the connection of the drive
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.

8. Check the connection of the drive
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.

9. Check the connection of the drive
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.
   - Connect the control cables to the drive.
   - Confirm the connection of the drive.

10. Check the connection of the drive
    - Connect the control cables to the drive.
    - Confirm the connection of the drive.
    - Connect the control cables to the drive.
    - Confirm the connection of the drive.
    - Connect the control cables to the drive.
    - Confirm the connection of the drive.
    - Connect the control cables to the drive.
    - Confirm the connection of the drive.

11. Check the connection of the drive
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17. Check the connection of the drive
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     - Confirm the connection of the drive.
     - Connect the control cables to the drive.
     - Confirm the connection of the drive.
     - Connect the control cables to the drive.
     - Confirm the connection of the drive.
7. Start up the drive

- Make sure that the motor is the only motor into which the drive will drive. Only qualified electricians are allowed to install the drive. Do not overload the motor when power is applied to the drive. Always make sure by measuring that no overload has been applied to the motor.
- Configure the drive parameters. See start-up instructions in the ACS880-M04 drive Hardware manual.
- Perform the start-up tasks as instructed by the cabinet installer of the drive.

### Fault messages generated by the drive

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1s</td>
<td>Light-overload</td>
<td>The output current exceeds the typical motor power for light-overload use.</td>
</tr>
<tr>
<td>A2s</td>
<td>Short circuit</td>
<td>There is a short circuit in the motor or the motor cable.</td>
</tr>
<tr>
<td>A3s</td>
<td>Earth leakage</td>
<td>A load unbalance that is typically caused by an earth fault in the power supply.</td>
</tr>
</tbody>
</table>

### Ratings

#### Nominal ratings with 220 V AC supply

<table>
<thead>
<tr>
<th>Code</th>
<th>Frame size</th>
<th>Power (kW)</th>
<th>Current (A)</th>
<th>Dimensions (mm)</th>
<th>Weights (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>03A6</td>
<td>R1</td>
<td>3.1</td>
<td>5.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03A0</td>
<td>R1</td>
<td>2.3</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Nominal ratings with 400 V AC supply

<table>
<thead>
<tr>
<th>Code</th>
<th>Frame size</th>
<th>Power (kW)</th>
<th>Current (A)</th>
<th>Dimensions (mm)</th>
<th>Weights (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04A8</td>
<td>R1</td>
<td>4.0</td>
<td>6.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03A0</td>
<td>R1</td>
<td>2.3</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Output ratings

- **Fuse size**: The fuse size is determined by the manufacturer. Always use the recommended fuse size for the drive.
- **Frame size**: The drive frame size is determined by the manufacturer. Always use the recommended frame size for the drive.

#### Fuses

**G5 and G6 fuses**

- **G5**: General purpose fuse for all applications requiring a high degree of safety.
- **G6**: General purpose fuse for all applications requiring a medium degree of safety.

### Compliance markings

- **CE**: Conforms to European Union laws and regulations.
- **UL**: Conforms to US and Canadian electrical safety standards.
- **EAC**: Conforms to Russian electrical safety standards.

### Dimensions and weights

- **Dimensions**: The dimensions provided are for the drive module only. The entire drive system includes the drive module, the power supply, and the interface panel.
- **Weights**: The weights provided are for the drive module only. The entire drive system includes the drive module, the power supply, and the interface panel.

### Ambient conditions

- **Temperature range**: The drive is designed to operate within a temperature range of -10°C to +55°C (-14°F to 131°F).
- **Humidity**: The drive can operate in a relative humidity range of 0% to 95% RH without condensation.
- **Altitude**: The drive can operate at an altitude of up to 4000 m (13123 ft) above sea level.
- **Presence of corrosive gases**: The drive can operate in environments with corrosive gases, but additional precautions may be required.

### Free space requirements

- **Drive vertical mounting**: The drive requires a minimum of 5 cm (2 inches) of free space above and below the drive. The drive also requires a minimum of 20 cm (8 inches) of free space on either side of the drive.

### Drive vertical mounting: above or below

- **Drive vertical mounting**: The drive requires a minimum of 5 cm (2 inches) of free space above and below the drive. The drive also requires a minimum of 20 cm (8 inches) of free space on either side of the drive.

### Drive vertical mounting: side by side

- **Drive vertical mounting**: The drive requires a minimum of 5 cm (2 inches) of free space above and below the drive. The drive also requires a minimum of 20 cm (8 inches) of free space on either side of the drive.

### Related manuals

- **Drive accessories and guides**: Code (English)

ACS880-M04 drive Hardware manual

ACS880-M04 drive Firmware manual