3.1 Applicable Cable and Terminal Tightening Torque

The torque values in the following table are the minimum torque value for each type of cable or terminal to avoid heat generation or other troubles caused by over-tightening. The torque values are for installations using a torque wrench or a similar tool. For other tightening methods, please consult your local distributor.

<table>
<thead>
<tr>
<th>Type</th>
<th>Terminal</th>
<th>Cable</th>
<th>Torque Value (in-lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4</td>
<td>6.3mm(0.25&quot;)</td>
<td>6/6.3mm2</td>
<td>10</td>
</tr>
<tr>
<td>M5</td>
<td>5.9mm(0.25&quot;)</td>
<td>10/12mm2</td>
<td>20</td>
</tr>
</tbody>
</table>

3.2.1 Precautions

- Use a torque wrench or a similar tool to tighten the cable and terminal to the specified torque value.
- Avoid using excessive force to tighten the cable and terminal, as it may cause deformation or damage to the product.
- Ensure that the tightening direction is clockwise to avoid loosening or slippage.

3.3 Grounding

- Grounding is essential for the safe operation of the product. Always ensure that the product is grounded properly.
- Use a grounding wire with a minimum cross-sectional area of 10mm² (0.06"").
- The grounding wire should be connected to the product at the designated grounding point.

4. Specification

4.1 Applicable PLC

- The product is designed to be used with the following PLC models:
  - FX3G Series PLC
  - MELSEC iQ-F FX5U PLC
  - MELSEC iQ-F FX5U PLC (Hardware Edition)
  - MELSEC iQ-F FX3U PLC
  - MELSEC iQ-F FX5U PLC (Hardware Edition)

4.2 Power Supply Specifications

- The product requires a power supply of 100V to 240V AC or DC to operate.
- The power supply voltage should be within the specified range to ensure reliable operation.

5. Installation

5.1 Unpacking

- Carefully unpack the product and handle it with care to avoid damage.

5.2 Mounting

- Mount the product on a flat and stable surface to ensure proper operation.
- Use appropriate screws and fixtures to secure the product to the installation location.

5.3 Wiring

- Follow the wiring diagram provided with the product to ensure proper connection of the input/output terminals.
- Use appropriate wire connectors and insulation materials to secure the connections.

5.4 Precautions

- Do not overload the input/output terminals.
- Ensure that the product is not exposed to moisture or dust.
- Regularly inspect the product for signs of damage or wear.

6. Maintenance

- Regular maintenance is recommended to ensure the longevity of the product.
- Consult the service manual for detailed maintenance procedures.

7. Troubleshooting

- Refer to the troubleshooting guide provided with the product for common issues and their solutions.
- For technical support, contact your local distributor or the manufacturer's customer service department.
2.2.2 DIN Rail Mounting

The product can be mounted on a DIN rail (20mm width). Please fix it using two or more screws according to the manual.

For details on the extension unit/block or special function block and function block, refer to the individual manual.

3. Wiring

3.1 Applicable Cable and Terminal Tightening Torque

The size of the terminal screw is the same as E660080B. Smaller tightening torque than the above value could cause disconnection of the terminal. When there is a wire to be connected to the terminal, tighten it as follows.

3.2.1 Power Supply wiring

When connecting an input (only) extension block and an input/output extension unit/block, connect the circuit separated from a designated voltage by a designated circuit breaker. When connecting an input/output extension unit/block and a special function unit/block, do not use a circuit breaker. When wiring equipment between the FX3U-1PSU-5V power supply and the PLC, take care of other wires connected to the PLC, such as a power cable, the following precautions. Do not use two or more crimp terminals to one terminal. Use one crimp terminal to one terminal when connecting an input/output extension unit/block and a special function unit/block. For details on crimping, refer to the manual of the PLC to be connected.

4. Power Supply Specifications

As shown in the following table, all of the products can be used with an input circuit of 24V AC/DC service power (±15%). Note that the power supply current of the FX3U-1PSU-5V unit is 500mA or less when 24V AC service power is used.

5. Notes on system configuration

For further details on setting, refer to the following manual.

6. Maintenance

Note: This symbol mark for China only.

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The FX3U-1PSU-5V unit may be connected to a FX 3G PLC system. Connect extension unit/block or special function unit/block and FX3U-1PSU-5V unit may be connected to a FX 3G, FX3U, FX5U PLC system. Only one FX3U-1PSU-5V unit may be connected to a FX 3G, FX3U, FX5U PLC system. Connect extension unit/block or special function unit/block and FX3U-1PSU-5V unit may be connected to a FX 3G, FX3U, FX5U PLC system. 2) Fit the upper edge of the DIN rail mounting groove to DIN rail. 3) When using a terminal, follow the specifications in the manual.

When connecting an input (only) extension block and an input/output extension unit/block, connect the circuit separated from a designated voltage by a designated circuit breaker.
Safey Precautions

For the power supply wiring, refer to the following manual.

The size of the terminal screws is M3.

3.1 Applicable Cable and Terminal Tightening Torque

The terminal is a torque of 0.6 to 2.0N.m. Do not tighten terminal too strongly as this may cause the terminal to be removed from the main body.

When using terminal that is not connected to terminal:
1) 0.6 to 2.0 Nm
2) 0.6 to 2.0 Nm

3.2 Grounding

1) Grounding should be performed as determined.
2) Short circuiting should be avoided.
3) When independent grounding is not performed, perform "slimming grounded" of the following items.

For details, refer to the following:

- MELSEC iQ-F FX5U User's Manual
- Mitsubishi Electric Corporation

3.3 Power Supply Specifications

The following shows the power specification of the product. Check the power specification of the product that is shown in the following table.

Table 1. Power Supply Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage range</td>
<td>100V to 240V AC</td>
</tr>
<tr>
<td>Power</td>
<td>100W</td>
</tr>
</tbody>
</table>