1. Introduction

The FX3U-64CCL (hereinafter called 64CCL) is a special function block to control the FINS/PROFIBUS-DP/FREEWAY compatible programmable controller FX3U/FX3GC series PLCs via a CC-Link network. This manual explains the FX3U-64CCL (64CCL) suitable for CC-Link master module usage. For details on the CC-Link master module, refer to the FX3UC-1PS-5V user’s manual.

1.1 Major Features of the FX3U-64CCL

The FX3U-64CCL supports an FINS/PROFIBUS-DP/FREEWAY compatible programmable controller FX3U/FX3GC series PLCs via a CC-Link network.

1.2 Incorporated Bases

This manual explains the FX3U-64CCL 64CCL incorporating the following bases.

1.2.1 FINS/PROFIBUS-DP/FREEWAY compatible programmable controller FX3U/FX3GC series PLCs

1.2.2 CC-Link connection terminal block

2. Functional Description

2.1 Connection with PLC

Only one 64CCL can be connected to the side plug of a PLC unit and a module (64CCL) integrated in the main unit.

For connection to the FX3U/FX3GC series PLCs at Public Series PLC extension board, follow the procedure illustrated below.

2.1.1 CC-Link Mounting

The product is mounted by using the following method.

2.1.2 Wiring

Wiring for the FX3U-64CCL 64CCL is illustrated below.

3. Specification

Refer to the following manual.

For details, refer to the FX3U-64CCL User’s Manual (Hardware Reference).
1.1 Connecting with PLC

Only one 64CCL can be connected to the right side of a PLC main unit or expansion unit. For further information on connection, refer to the connected PLC user's manual.

2.1 Connection with PLC

Only one 64CCL can be connected to the right side of a PLC main unit or expansion unit. For further information on connection, refer to the connected PLC user's manual.

2.2 Transmission rate setting, hardware test

The product is shipped in the following manner:

- 2.5 m transmission rate
- 625 Kbps

For details, refer to the MELSEC iQ-F FX5U User's Manual (Hardware).

2.2.1 DIN Rail Mounting

Only one 64CCL can be connected to the right side of a PLC main unit or expansion unit. For further information on connection, refer to the connected PLC user's manual.

2.2.2 Communication setting

The product is shipped in the following manner:

- 2.5 m transmission rate
- 625 Kbps

For details, refer to the MELSEC iQ-F FX5U User's Manual (Hardware).

2.2.3 Power supply terminal block

Failure to do so may cause equipment failures or malfunctions. Only one 64CCL can be connected to the right side of a PLC main unit or expansion unit. For further information on connection, refer to the connected PLC user's manual.

3.2 General Specifications

For general specifications, refer to the connected PLC user's manual.

3.2.1 Applicable application

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

3.3 Power Supply Specification

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.1 Power and status LEDs

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.2 Status Outputs

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.3 Current and Voltage

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.4 Auxiliary Power

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.5 Power Consumption

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.6 Current and Voltage

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.7 Auxiliary Power

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.8 Power Consumption

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

4.9 Status Outputs

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

5.1 Precautions

For details, refer to the FX3U-64CCL User’s Manual (Hardware).

6.1 Station number setting

For details, refer to the FX3U-64CCL User’s Manual (Hardware).
1.6 Number of occupied stations, Expanded cyclic setting

- Setting items: Station number, Transmission rate, Number of occupied stations, Expanded cyclic setting

2.1 Connection with PLC

Only one 64CCL can be connected to the right side of a PLC main unit or expansion module. For connection to a PLC, refer to the FX3U Series PLC User’s Manual in Hardware Edition.

2.2 Mounting

- Direct mounting (mounting screw: M4 screw)

- An interval space of 1 to 2 mm (0.04” to 0.08”) is necessary.

2.3 Direct Mounting (mounting screw: M4 screw)

The product can be used directly with screws. For details, refer to the FX3U Series PLC User’s Manual (Hardware Edition).

3. Specification

For details, refer to the following manuals:
- FX3U Series PLC User’s Manual (Hardware Edition)
- FX3U-64CCL User’s Manual (Hardware Edition)

4.2 Conformity with EMC Directive (CE Marking)

- The product is covered by the following conformity markings:
  - The conformity assessment procedure stated in the above-mentioned Directives has been fulfilled.

5. Power Supply Requirement

- Power supply: 24 V DC, 100 mA (±10%)

6. Precaution

- For details, refer to the FX3U Series User’s Manual (Hardware Edition).

7. Conclusion

- Thank you for your interest in Mitsubishi Electric products.

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