

Appendix

C

Terminal Block Quick Connect Assembly

This appendix describes the Alspa C80–35 interposing terminal block assemblies for Alspa C80–35 discrete I/O modules. This terminal block assembly is referred to as Terminal Block Quick Connect or simply TBQC. This system allows the listed 16-point discrete modules to be quickly connected to interposing terminal blocks. Installing a 16 point module typically takes 2 1/2 hours to wire from a PLC to interposing terminal blocks. With the TBQC, you simply snap in the interposing terminal block, remove the I/O module’s terminal assembly, snap in the I/O faceplate and connect the cable. This reduces wiring time to about two minutes and no additional wiring is required, thereby reducing wiring costs and errors. Complete assemblies consist of a terminal block, an I/O Face Plate and a cable.

1. TERMINAL BLOCK QUICK CONNECT COMPONENTS

1.1. Terminal Blocks

Catalog numbers for the terminal blocks and the modules they can be used with are listed below.

Catalog Number	Use With These Modules	Module Description
IC693ACC329*	IC693MDL240 IC693MDL645 IC693MDL646	Input, 120 VAC – 16 points Input, 24 VDC Pos./Neg Logic– 16 points Input, 24 VDC Pos./Neg, Logic, FAST – 16 points
IC693ACC330	IC693MDL740 IC693MDL742	Output, 12/24 VDC Pos Logic, 0.5A – 16 points Output, 12/24 VDC Pos Logic ESCP, 1A– 16 points
IC693ACC331	IC693MDL741	Output, 12/24 VDC Neg Logic, 0.5A– 16 points
IC693ACC332	IC693MDL940	Output, Relay, N.O. – 16 points
IC693ACC333	IC693MDL340	Output, 120 VAC, 0.5A – 16 points

* This Terminal Block may be used with most I/O modules that have up to 16 I/O points (can not be used with 32 point modules). Jumpers may have to be added; for details of required wiring connections, refer to module specifications in this manual.

1.2. Cables

Three cables are available for the connection between the module's faceplate connector and the connector on the interposing terminal block. Each cable has a 24-pin connector wired pin-to-pin on each end.

- **IC693CBL321** 1 meter (3.3 feet),
- **IC693CBL322** 2 meters (6.5 feet),
- **IC693CBL323** 0.5 meter (1.6 feet).

1.3. I/O Face Plate

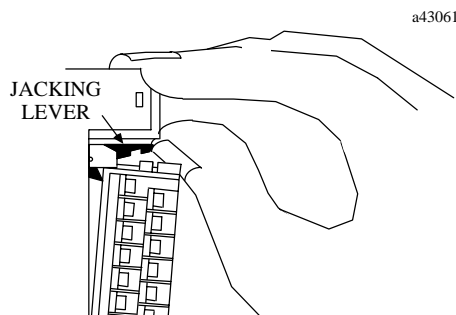
The I/O Face Plate (catalog number IC693ACC334) has a 24-pin connector, which provides the connection to the applicable terminal block through a 0.5, 1 or 2 meter cable. This face plate replaces the 20-terminal connector on the listed modules.

1.4. Installation

1. Install terminal block assembly on DIN rail.

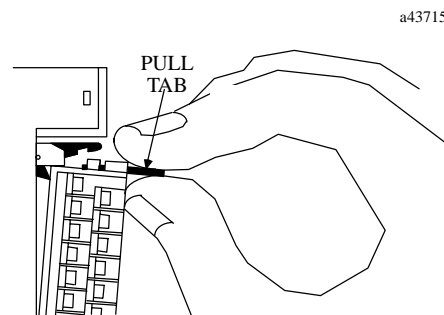
Place the terminal block over the desired location on the DIN rail and snap into place.

2. Remove 20-pin terminal assembly from module.



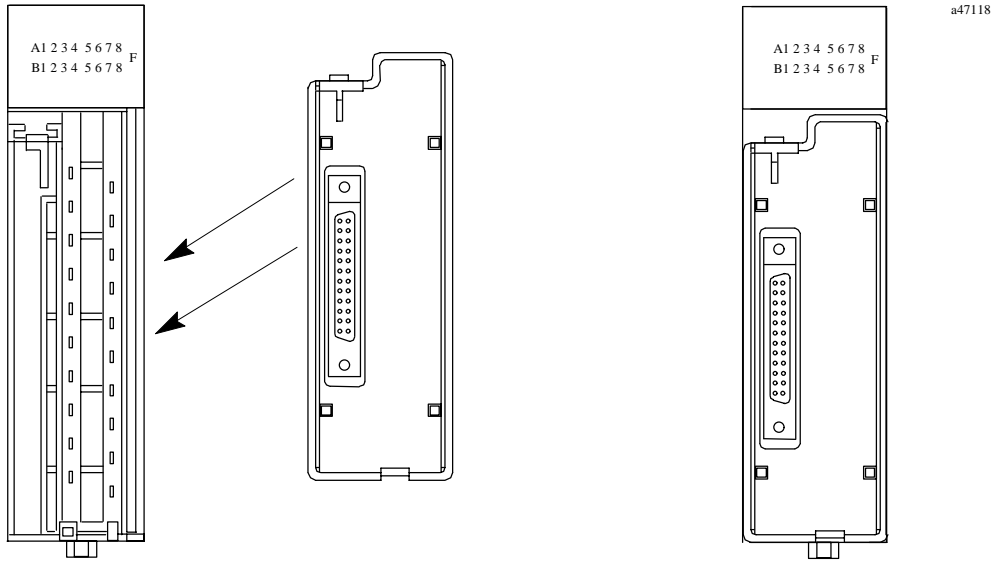
- 1 Open the plastic terminal board cover.

- 2 Push up on the jacking lever to release the terminal block.



- 3 Grasp pull-tab towards you until contacts have separated from module housing and hook has disengaged for full removal.

3. Snap I/O Face Plate assembly on module.



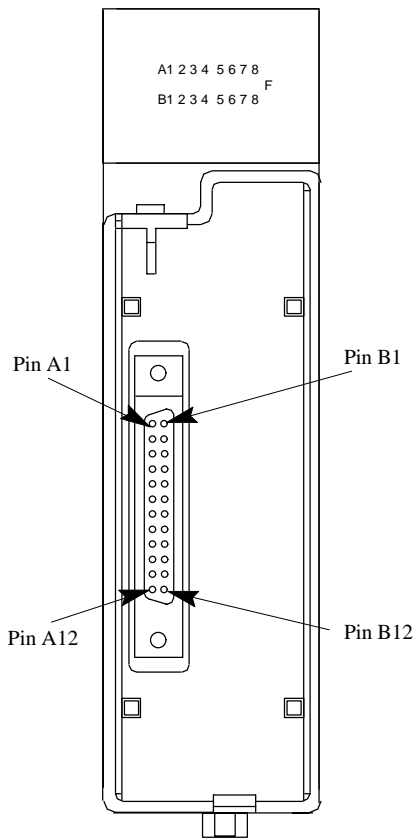
Installing the I/O Face Plate

Module with I/O Face Plate Installed

4. Connect cable to connector on terminal block.

Finally, connect the selected length cable from the connector on the I/O Face Plate to the connector on the interposing terminal block.

1.5. Connector Pin Orientation and Connection to Module Terminal



Connector Pin Orientation

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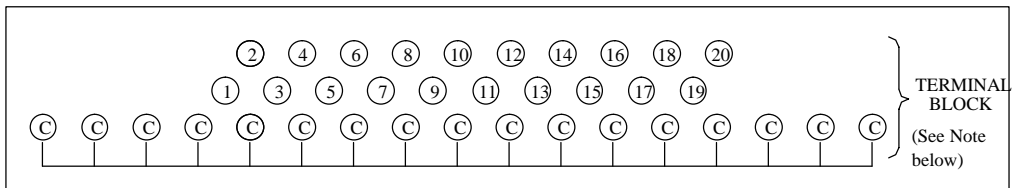
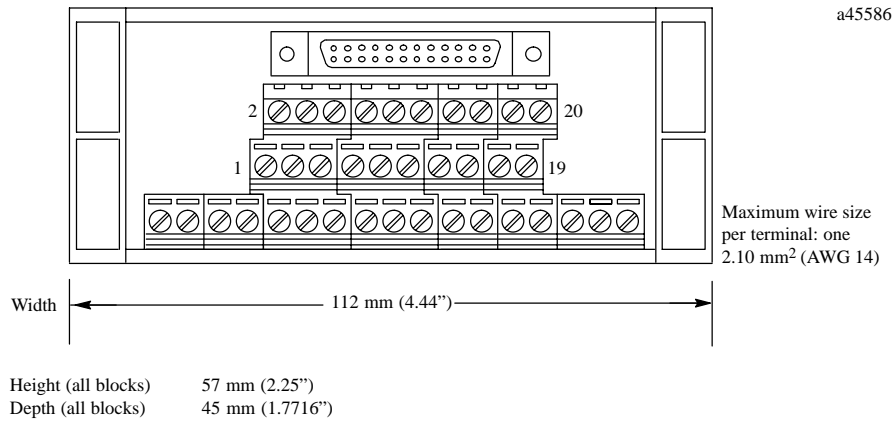
Module Terminal No.	Connector Pin No.
1	B1
2	A1
3	B2
4	A2
5	B3
6	A3
7	B4
8	A4
9	B5
10	A5
	B6 (N.C.)
	A6 (N.C.)
	B7 (N.C.)
	A7 (N.C.)
11	B8
12	A8
13	B9
14	A9
15	B10
16	A10
17	B11
18	A11
19	B12
20	A12

Refer to Chapter 2 for each module.

Each of the Terminal Block Quick Connector assemblies are detailed on the following pages.

1.6. IC693ACC329

Use with: **IC693MDL240**
IC693MDL645
IC693MDL646



Note

The terminal block provides a second wire connection point. The common row is electrically isolated from the other connection points. If used for common connection, a jumper must be added between the common row and the module common. Refer to Chapter 2 for required wiring connections.