



ALLEN-BRADLEY

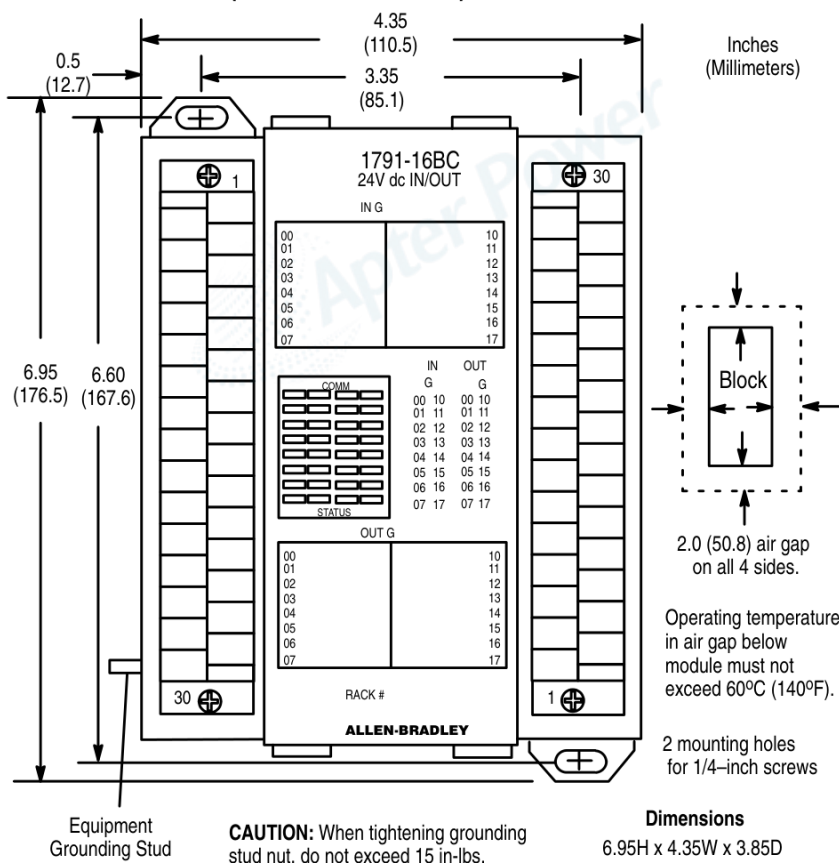
16 Input/16 Output DC Block I/O Module

Cat. No. 1791-16BC Series B

Installation

Mount the block I/O module in a vertical (recommended) or horizontal position. Allow sufficient room around the block for cooling air to flow through the block module. Refer to Figure 1.

Figure 1
Mounting Dimensions for the Block I/O Module
Cat. No. 1791-16BC (PLC version shown)



Installation Instructions

Block I/O

Cat. No. 1791-16BC Series B

Figure 2
Mounting on a DIN Rail

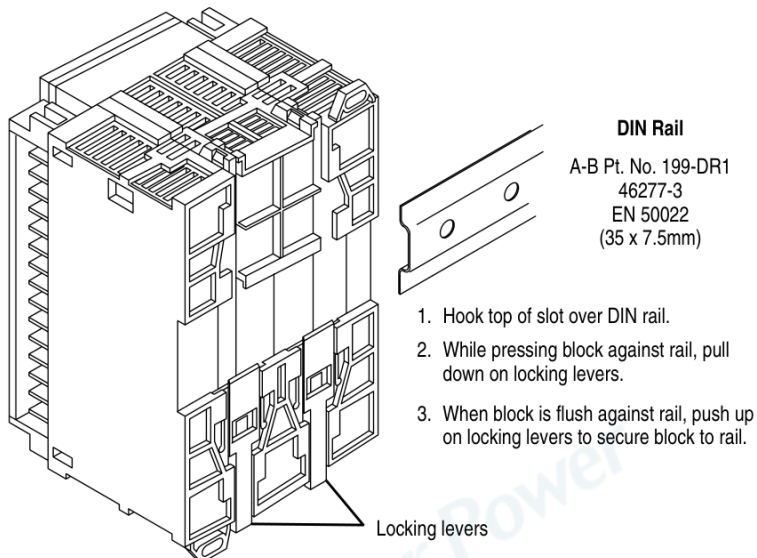
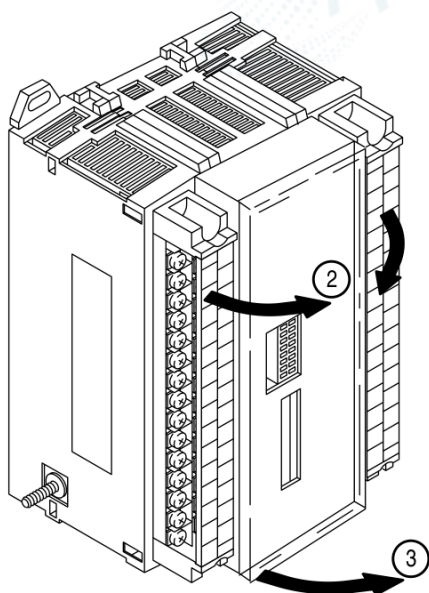


Figure 3
Inserting Labels



Installation Instructions
Block I/O
Cat. No. 1791-16BC Series B

1791-16BC Specifications

Input Specifications		
Inputs per Block		16 – 2 groups of 8
On-state Voltage Range		10–30V dc
On-state Current	Maximum Minimum	11.0mA @ 30V 2.5mA @ 10V
Off-state Voltage	Maximum	5V dc
Off-state Current	Minimum	1.5mA
Input Impedance	Maximum	3.4K ohms
Input Signal Delay	Fast Slow	1.0ms on; 5.0ms off (maximum) 1.0ms on; 18.0ms off (maximum)
Output Specifications		
Outputs per Block		16 – 2 groups of 8
Output Voltage Range		10–30V dc
Output Current Rating	Vertical Mtg. Horizontal Mtg.	500mA @ 60°C, 1A @ 30°C 250mA @ 60°C, 500mA @ 30°C
Surge Current		3A for 50ms each, repeatable every 2 sec.
Minimum On-state Current		1mA per output
Maximum On-state Voltage Drop		1.0V @ rated current
Off-state Leakage Current (maximum)		0.5mA
Output Signal Delay		0.5ms on; 1.0ms off (maximum)
Specifications continued on next page		

Installation Instructions

Block I/O

Cat. No. 1791-16BC Series B

1791-16BC Specifications

General Specifications

External Power (internally protected - no external fuse required)		
Voltage		19.2–30V dc
Current		300mA
Dimensions	Inches	6.95H X 4.35W X 3.85D
	Millimeters	176.5H X 110.5W X 98D
Isolation	Power supply to R/O	500V ac
	I/O Group-to-Group	500V ac
	I/O Group-to-Logic	500V ac
Power Dissipation	Maximum	17.8 Watts
Thermal Dissipation	Maximum	60.6 BTU/hr
Environmental Conditions		
Operational Temperature		0 to 60°C (32 to 140°F)
Storage Temperature		–40 to 85°C (–40 to 185°F)
Relative Humidity		5 to 95% noncondensing
Conductors	Wire Size	14 gauge (2mm ²) stranded maximum 3/64 inch insulation maximum
	Category	2 ¹

¹ You use this conductor category information for planning conductor routing as described in the system level installation manual.



ALLEN-BRADLEY

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