

Allen-Bradley 1756 Series Service Manual

1756-A4

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-A4
Series	ControlLogix
Slots	4
Module	Type Chassis
No.	of Slots Four (4)
Power	Dissipation (Max) 4 Watts
Mounting	Horizontal
Dimensions	20 x 20 x 8 inches
Weight	1.7 pounds (0.75 kilograms)
Enclosure	Open
Backplane	Current (5 Volts DC) 10 amps
Backplane	Current (24 Volts DC) 2.8 Amps
Available	Series Series A, B, C Description
The	Allen-Bradley 1756-A4 is a ControlLogix Chassis. It is a 4-Slot ControlLogix Chassis with Power dissipation and 1.8 W power consumption. It has dimensions of 50.8 x 50.8 x 20.3 cm (20 x 20 x 8 in.).in and weighs 1.7 lbs. It is horizontally mounted inside the panel and it has an open enclosure. It has a maximum Backplane current of 1.5 A at 1.2 V DC, 4 A at 3.3 V DC, 15 A at 5.1 V DC, and 2.8 A at 24 V DC.

3. Product Information

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Mfr. Part Number:

1756-A4

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-A4 4 Slot ControlLogix Chassis

Full Description: Allen-Bradley 1756-A4 4 Slot ControlLogix Chassis. Allen-Bradley 1756-A4 ControlLogix chassis provides the physical connections between modules and the ControlLogix backplane. The 1756-A4 is designed for horizontal-only, back-panel mounting and compatible with the following Power Supplies: 1756-PA72, 1756-PB72, 1756-PA75, 1756-PB75, 1756-PC75, 1756-PH75. Slot filler modules (1756-N2) are required to fill empty slots. Number of Slots: 4; Backplane current, chassis/slot max @ 1.2V DC: 1.5 A/1.5 A; Backplane current, chassis/slot max @ 3.3V DC: 4 A/4 A; Backplane current, chassis/slot max @ 5.1V DC: 15 A/6 A; Backplane current, chassis/slot max @ 24V DC: 2.8 A/2.8 A; Power dissipation: 6.1 BTU/hr; Power consumption: 1.8 W; Dimensions (WxHxD): 263 x 169 x 145 mm (10.35 x 6.65 x 5.71 in.); Cabinet size (WxHxD), min: 507 x 507 x 203 mm (20 x 20 x 8 in.); Weight, approx.: 0.75 kg (1.7 lb). The Allen-Bradley 1756-A4 is a ControlLogix Chassis with Four (4) Slots. This Chassis is used to house ControlLogix and encompass partner modules and provides backplane power through the provided electronic circuitry which also function as the local bus connection. weighs 0.75 kg (1.7 lb.) and measures 50.8 x 50.8 x 20.3 cm (20 x 20 x 8 in.). Technical specifications for 1756-A4

Manufacturer Rockwell Automation

Brand Allen-Bradley

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Series ControlLogix

Slots 4

Module Type Chassis

No. of Slots Four (4)

Power Dissipation (Max) 4 Watts

Mounting Horizontal

Dimensions 20 x 20 x 8 inches

Weight 1.7 pounds (0.75 kilograms)

Enclosure Open

Backplane Current (5 Volts DC) 10 amps

Backplane Current (24 Volts DC) 2.8 Amps

Available Series Series A, B, C Description

The Allen-Bradley 1756-A4 is a ControlLogix Chassis. It is a 4-Slot ControlLogix Chassis with Power dissipation and 1.8 W power consumption. It has dimensions of 50.8 x 50.8 x 20.3 cm (20 x 20 x 8 in.).in and weighs 1.7 lbs. It is horizontally mounted inside the panel and it has an open enclosure. It has a maximum Backplane current of 1.5 A at 1.2 V DC, 4 A at 3.3 V DC, 15 A at 5.1 V DC, and 2.8 A at 24 V DC.

The chassis backplane provides a high-speed communication path between modules and distributes power to each of the modules within the chassis.

The 1756-A4 Standard Chassis provides easy maintenance with the Removal and Insertion Under Power (RIUP) feature. For preventing replacement errors, it also offers electronic keying.

The 1746-A4 is and Allen-Bradley ControlLogix chassis that provides mounting to ControlLogix modules processors, IO modules, communication adapters, specialty module, intelligent, encompass partner and 3rd party modules.

The 1746-A4 features Four (4) slots. Aside from providing module installation slots, this chassis houses the electronic backplane to which backplane power is distributed that powers-up any module attach to individual chassis slot.

The chassis also provides the installation means of the system power supply. The system power supply is not included to the slot count as the power supply is installed outside the chassis through the provided power supply interface. Being a Four (4) slot chassis, the minimum rated ControlLogix power supply is capable of powering up the modules attached to it.

ControlLogix chassis also supports distributed application. With distributed application, I/O modules may be installed to a chassis remote to the processor. This prevents installation of individual signal cable home runs. With a distributed application, Distributed I/O channels does not have a processor instead, it is installed with a communication adapter along the required ControlLogix modules. Any chassis within the ControlLogix system may be used as distributed I/O chassis including the 1756-A4. Each chassis require an individual system power supply.

ControlLogix chassis come with other variants of chassis including 1756-A7, 1756-A10 and 1746-A13 and 1756-A17.

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