

Allen-Bradley 1756 Series Service Manual

1756-PA75

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Weight	0.95 kg (2.10 lb)
Dimensions	14.0 x 11.2 x 14.5 cm (5.51 x 4.41 x 5.71 in.)
Module	Type Standard DC Power Supply
Series	ControlLogix
Part	Number/Catalog No. 1756-PA75
Current	Capacity 4A at 3.3VDC; 13 A at 5.1VDC and 2.8 A at 24VDC
Brand	Allen-Bradley
UNSPSC	32151706
Nom	Input Voltage 120/240VAC
Input	Voltage Range 85-265VAC
Isolation	Voltage 250 Volts Continuous
Max	Inrush Current 30 Amperes
Hold	Up time 2 cycles @ 85V AC, 60 Hz 6 cycles @ 120V AC, 60 Hz 20 cycles @ 220V AC, 60 Hz
Location	1756 Chassis Left Side
Chassis	Compatibility 1756-A4/A, 1756-A7/A, 1756-A10/A, 1756-A13/A, 1756-A17/A, 1756-A4/B, 1756-A7/B, 1756-A10/B, 1756-A13/B, 1756-A17/B, 1756-A4/C, 1756-A7/C, 1756-A10/C, 1756-A13/C, 1756-A17/C
Input	Voltage 120-220 Volts AC
Voltage	Range 85-265 Volts AC
Input	Power 100 Watts
Input	Frequency 47-63 Hertz
Power	Output 75 Watts at 60 Celsius
Chassis	Series B
Location	Chassis Left Side
Operating	Temperature 32-140 Fahrenheit (0-60 Celsius)

3. Product Information

Mfr. Part Number:

1756PA75

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen Bradley 1756-PA75 ControlLogix Power Supply 85-265VAC / 5V@13A, Rack Mount

Full Description: Allen Bradley 1756-PA75 ControlLogix Power Supply 85-265VAC / 5V @ 13A, Rack Mount The Allen-Bradley 1756-PA75 is a ControlLogix Power Supply. This is a Standard Power Supply that is externally powered by an input Voltage range of 85-265VAC, 47-63 Hz. It has an output power rating of 75 W @ 0...+60 °C (+32...+140 °F) and current capacity of 4A at 3.3VDC; 13 A at 5.1VDC and 2.8 A at 24VDC. This module is installed at the left most side of the 1756 chassis. Technical specifications for 1756-PA75

Manufacturer Rockwell Automation

Weight 0.95 kg (2.10 lb)

Dimensions 14.0 x 11.2 x 14.5 cm (5.51 x 4.41 x 5.71 in.)

Module Type Standard DC Power Supply

Series ControlLogix

Part Number/Catalog No. 1756-PA75

Current Capacity 4A at 3.3VDC; 13 A at 5.1VDC and 2.8 A at 24VDC

Brand Allen-Bradley

UNSPSC 32151706

Nom Input Voltage 120/240VAC

Input Voltage Range 85-265VAC

Isolation Voltage 250 Volts Continuous

Max Inrush Current 30 Amperes

Hold Up time 2 cycles @ 85V AC, 60 Hz 6 cycles @ 120V AC, 60 Hz 20 cycles @ 220V AC, 60 Hz

Location 1756 Chassis Left Side

Chassis Compatibility 1756-A4/A, 1756-A7/A, 1756-A10/A, 1756-A13/A, 1756-A17/A, 1756-A4/B, 1756-A7/B, 1756-A10/B, 1756-A13/B, 1756-A17/B, 1756-A4/C, 1756-A7/C, 1756-A10/C, 1756-A13/C, 1756-A17/C

Input Voltage 120-220 Volts AC

Voltage Range 85-265 Volts AC

Input Power 100 Watts

Input Frequency 47-63 Hertz

Power Output 75 Watts at 60 Celsius

Chassis Series B

Location Chassis - Left Side

Operating Temperature 32-140 Fahrenheit (0-60 Celsius)

Enclosure None

UPC 10612598206855 Description

The 1756-PA75 is an Allen-Bradley Standard power supply. This module is installed on the dedicated power supply slot, located at the left most side any ControlLogix chassis. The primary purpose of this power supply is to deliver the necessary backplane power, used by each of the modules installed to the chassis. This backplane power energizes the modules to enter operational state.

The 1756-PA75 must be supplied with an external power to operate. It is compatible with 85-264VAC voltage range along a frequency of 47-63 Hz while the nominal input voltage are 120VAC / 240VAC. This power supply has an output power rating of 75 W when operated at 0...+60 °C (+32...+140 °F) and current capacities of 4A at 3.3VDC; 13 A at 5.1VDC and 2.8 A at 24VDC.

The 1756-PA75 is compatible with a variety of ControlLogix chassis such as 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17 and of chassis series, particularly Series B and Series C. If operating input supply to the 1756-PA75 is suddenly interrupted, this standard power supply provides a hold-up time of 2 cycles @ 85V AC, 60 Hz 6 cycles @ 120V AC, 60 Hz 20 cycles @ 220V AC, 60 Hz. Additionally, it has an isolation voltage of rating of 250V (continuous), Reinforced Insulation Type, Power Input to Backplane Type tested at 3500V DC for 60 s.

The 1756-PA75 requires hardware configuration.

The Allen-Bradley 1756-PA75 comes with a current capacity at 5.1V of 13 A. This power supply must be mounted on the left side of 1756 chassis and it has a non-replaceable fuse that intended to guard against fire hazards from short circuits. The 1756-PA75 is intended for use in Pollution Level 2 Industry Environments and in excessive Category II applications (as defined in the publication of IEC 60664-1). Note that the 1756-PA75 power supply can operate at an altitude of up to 2000 meters without derating.

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