

Allen-Bradley 1756 Series Service Manual

1756-PB75

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Dimensions	14.0 x 11.2 x 14.5 cm (5.51 x 4.41 x 5.71 in.)
Weight	0.95 kg (2.10 lb)
Location	1756 Chassis Left Side
Input	Power 95 W
Module	Type Standard Power Supply
Series	ControlLogix
Part	Number/Catalog No. 1756-PB75
Brand	Allen-Bradley
Nom	Input Voltage 24VDC
Input	Voltage Range 18-32VDC
Isolation	Voltage 250V (continuous), Reinforced Insulation Type, Power Input to Backplane Type tested @ 3500V DC for 60 s
Max	Inrush Current 30 Amperes
Current	Capacity 1.5A at 1.2 VDC; 4A at 3.3VDC; 13 A at 5.1VDC and 2.8 A at 24VDC
Output	Power 75 W @ 0...+60 °C (+32...+140 °F)
Hold	Up time 35 ms @ 18V DC; 40 ms @ 24V DC; 40 ms @ 32V DC
Chassis	Compatibility 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17
Chassis	Series Series B; Series C
Input	Voltage 24 Volts DC
Voltage	Range 18-32 Volts DC
Power	Output 75 Watts at 60 Celsius
Chassis	Series B
Operating	Temperature 32-140 Fahrenheit (0-60 Celsius)
Enclosure	None
UPC	10612598206862 Description
The	1756-PB75 is a Standa

3. Product Information

Mfr. Part Number:

1756-PB75

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-PB75 ControlLogix 18-32VDC Power Supply, Rack Mount

Full Description: Allen-Bradley 1756-PB75 ControlLogix 18-32 V DC Power Supply (5V @ 13 Amp), Rack Mount The Allen-Bradley 1756-PB75 is a ControlLogix Power Supply. This is a Standard Power Supply that is externally powered by an input Voltage range of 18-32VDC with nominal input voltage of 24VDC. It has an output power rating of 75 W @ 0...+60 °C (+32...+140 °F) and current capacity of 1.5 A at 1.2VDC; 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 Technical specifications for 1756-PB75

Manufacturer Rockwell Automation

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

Weight 0.95 kg (2.10 lb)

Location 1756 Chassis Left Side

Input Power 95 W

Module Type Standard Power Supply

Series ControlLogix

Part Number/Catalog No. 1756-PB75

Brand Allen-Bradley

Nom Input Voltage 24VDC

Input Voltage Range 18-32VDC

Isolation Voltage 250V (continuous), Reinforced Insulation Type, Power Input to Backplane Type tested @ 3500V DC for 60 s

Max Inrush Current 30 Amperes

Current Capacity 1.5A at 1.2 VDC; 4A at 3.3VDC; 13 A at 5.1VDC and 2.8 A at 24VDC

Output Power 75 W @ 0...+60 °C (+32...+140 °F)

Hold Up time 35 ms @ 18V DC; 40 ms @ 24V DC; 40 ms @ 32V DC

Chassis Compatibility 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17

Chassis Series Series B; Series C

Input Voltage 24 Volts DC

Voltage Range 18-32 Volts DC

Power Output 75 Watts at 60 Celsius

Chassis Series B

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

Enclosure None

UPC 10612598206862 Description

The 1756-PB75 is a Standard ControlLogix power supply. This power supply is a DC powered module, mainly used to deliver backplane power and enable module operation. This power supply is mounted on the left most side of a particular ControlLogix chassis.

The 1756-PB75 is compatible with most of ControlLogix chassis, particularly Series B and Series C 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17 chassis. When terminating incoming power connection to this power supply, recommended wire size is 2.5 mm² or 14 American Wire Gauge (AWG) solid or stranded copper wire with insulation rating of 90 °C (194 °F), or higher and maximum insulation thickness of 1.2 mm (3/64 in.). Tighten screw with Torque of 0.565 N-m (5 lb-in). This power supply has physical dimension of 14.0 (H) x 11.2 (W) x 14.5 cm (D) (5.51 x 4.41 x 5.71 in and weighs 0.95 kg (2.10 lb).

The 1756-PB75 is externally powered by a nominal supply voltage of 24VDC with applicable voltage range of 18-32VDC. It has an input power rating of 95W and inrush current rating of 30A. It delivers an output power of 75 W @ 0...+60 °C (+32...+140 °F) and current capacities of 1.5 A at 1.2VDC; 4A at 3.3VDC; 13 A at 5.1VDC and 2.8 A at 24VDC. This power supply also features hold up time of 35 ms @ 18V DC; 40 ms @ 24V DC and 40 ms @ 32V DC with isolation voltage of 250V (continuous), Reinforced Insulation Type, Power Input to Backplane Type tested @ 3500V DC for 60 s.

It is part of the 1756 ControlLogix product family that also provides power to the chassis backplane. The 1756-PB75 has an input voltage range between 18 and 32V DC with 24V DC nominal and a power rating of 95W input power and 75W maximum output power at 0-60 °C. The module has a maximum surge current of 30A and a signal hold up time of 35ms at 18V DC, 40ms at 24V DC, and 40ms at 32V DC. It has a current capacity of 1.5A at 1.2V, 4A at 3.3V, 13A at 5.1V, and 2.8A at 24V DC. The 1756-PB75 has an isolation voltage of 250V using a reinforced insulation type tested at 3500V DC for 60s between power input-to-backplane. Its circuitry uses 2.5 mm² (14 AWG) stranded or solid copper wire with a 0.8 N-m (7 lb-in) conductor screw torque. The 1756-PB75 has a designated T4 ATEX, IEC, and North America temperature codes and it comes with an open-style enclosure. It has a 0-60 °C (32-140 °F) functional temperature range at a relative humidity condition of 5-95% without condensation. The 1756-PB75 has an operational shock rating of 30G and it can withstand an operational vibration of 2.0G at 10-500Hz. It weighs approximately 0.95 kg (2.10 lb) and has a shipping dimension of 14.0cm x 11.2cm x 14.5cm (5.51in x 4.41in x 5.71in).

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