

Allen-Bradley 1756 Series Service Manual

1756-PSCA2XT

1. Description

The Allen-Bradley ControlLogix 1756-PSCA2XT is a Redundant Power Supply Chassis Adaptor.

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-PSCA2XT
Series	ControlLogix
Module	Type Redundant Power Supply Chassis Adaptor
Current	Capacity (1.2 Volts DC) 1.5 Amperes
Current	Capacity (3.3 Volts DC) 4 Amperes
Current	Capacity (5.1 Volts DC) 15 Amperes
Current	Capacity (24 Volts DC) 2.8 Amperes
Enclosure	Type None (Open-Style) Description
The	Allen Bradley 1756-PSCA2XT is a Redundant Power Supply Chassis Adapter. It has operating temperatures between -25 and 70 degrees Celsius (-13 to 158 degrees Fahrenheit) and nonoperating temperatures of -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit). The maximum surrounding air temperature of this power supply is 70 degrees Celsius (158 degrees Fahrenheit), and its relative humidity is based on IEC 60068-2-30 at 5% to 95%, non condensing.

3. Product Information

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Call for an immediate quote Technical specifications for 1756-PSCA2XT

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Series ControlLogix

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The operating vibration of this power supply is 2 G at 10 to 500 Hertz, with operating and nonoperating shocks of 30 and 50 G, respectively. Its Current capacity at 1.2 Volts DC is 1.5 A; at 3.3 Volts DC, the Current capacity is 4 A, at 5.1 Volts DC it is 15 A, and at 24 Volts DC, this module has a current capacity of 2.8 A. The ESD immunity of this module is 6 kV contact discharges and 8 kV air discharges.

Connecting or disconnecting this module's cable while the backplane power source is live can cause an electric arc to occur. This can result in an explosion or excessive wear on the contacts of the module and its mating connector. Contacts that are not maintained may cause electrical resistance which can affect the operation of the module. The 1756-PSCA2 is a Chassis Adapter Module for a redundant power supply. Manufactured by Allen Bradley under the ControlLogix series, this module comes with shipping weight of 8.1 ounces and shipping dimensions of 1.38 x 6 x 5.81 inches. It is mounted on left chassis and comes with 3 RTBs featuring a 1756-TBSH or a 1756-TBNH. The module can endure an operating temperature of 0 to 60 degrees Celsius while the recommended storage temperature for the 1756-PSCA2 is -45 to 60 degrees Celsius. The module can be placed on either of the slots on the left side chassis. With a Backplane current of 125 Milliamps at 24 Volts, the 1756-PSCA2 has a maximum power Dissipation of 25.7 Watts at 30 degrees Celsius and at 60 degrees Celsius, the maximum power dissipation is 21.3 Watts. This module provides two redundant power supplies into a single power connector on the chassis backplane and it is also an essential component when it comes to building ControlLogix Redundant Power Supply Systems. Only one of them is required for creating a system and comes compatible with the bulletin 1756-PA75R and the 1756-PB75R power supplies. Being an open type device, the 1756-PSCA2 redundant power supply has a current capacity of 1.5 Amps at 1.2 Volts DC, has 4 Amps at 3.3 Volts DC, 15 Amps at 5.1 Volts DC and 2.8 Amps at 24 Volts DC. Basically, the module is usually mounted horizontally on the left chassis and the left side cable used to connect the 1756-CPR2 to power supply. This cable comes with a bend of 5 inches as the minimum clearance to route and connect parts.