

Allen-Bradley 1769-PA4 Manual

Brand	Allen-Bradley
Product Series	1769
Product Type	I/O Power Supply

Description

The Allen-Bradley 1769-PA4 is a 1769 CompactLogix Power Supply. This Power Supply has a selectable input voltage range of 85 - 265VAC or 170-265 VAC. It has a nominal input of 120V/220V AC. The module's Current capacity of 4.0A at 5.0V and 2.8A at 24VDC. Technical specifications for 1769-PA4

Manufacturer Rockwell Automation / Allen-Bradley

Brand Allen-Bradley

Part Number/Catalog No. 1769-PA4

Product Line CompactLogix

Product Type: I/O Power Supply

Module Type AC Power Supply Module

Input Power 120 Volts AC

Input Voltage range: 85...265V AC or 170...265V AC, switch selectable

Power Supply Distance Rating 8; 8 I/O modules can be connected on either side of the power supply for a maximum of 16 module.

Input frequency range: 47...63 Hz

Shipping Dimensions 8 x 8 x 5 inches

Power consumption: 200 VA @ 120V AC 240 VA @ 240V AC

Enclosure Type None (Open Style)

Power dissipation: 8 W @ 60 °C (140 °F)

Series A and B

Current capacity @ 5V DC: 4.0 A

Warranty 1 year

Current capacity @ 24V DC: 2.0 A

Wire Type Copper wire withstanding 90 degrees Celsius

Inrush current, max: 25 A @ 132V AC

Solid Wire Size 22 to 14 AWG

Fuse type: Littelfuse 02153.15MXP; Wickmann 19195-3.15A

Input Frequency 47 to 63 Hertz

Dimensions (HxWxD), approx.: 118 x 70 x 87 mm (4.65 x 2.76 x 3.43 in.) height including mounting tabs is 138 mm (5.43 in.)

Stranded Wire Size 22 to 16 AWG

Weight: 525 g (1.16 lb)

UPC 10612598276889

Wire size: 14 AWG (2.5 mm2) solid copper wire rated at 90 °C (194 °F) or greater, 1.2 mm (3/64 in.) insulation max

Certifications: c-UL-us; CE; C-Tick Description

The Allen-Bradley 1769-PA4 is a CompactLogix I/O power supply. It can provide 120 to 240 Volts of AC power and 24 Volts of DC power to the CompactLogix 1769-L3x processors, controllers, and the I/O modules connected to it. Up to 8 modules can connect to each side of the 1769-PA4 for a maximum of 16 modules for one power supply. This power supply provides 4A of current at 5 Volts DC or 2A at 24 Volts DC. This module measures 2.76 x 3.43 x 4.65 inches and weighs approximately 630 g (1.39 lb). This power supply supports DIN rail or panel mounting. It has an open-style enclosure with integrated fuse that is replaceable with part numbers Littelfuse 02183.15MXP or the Wickman 19195-3 fuses. The 1769-PA4 has components that include a bus lever with a locking function, LED status indicator, a power supply door with an identification label, both movable and stationary bus connectors (with

male and female pins), a nameplate label, upper and lower tongue-and-groove slots, upper and lower DIN rail latches, a terminal block with finger-safe cover, and a housing cover for the replaceable fuse. This power supply has a selectable input voltage range of 85 to 265 Volts and 170-265 VAC along an input frequency range of 47 to 63 Hertz. Its power consumption is around 200 VA at 120 Volts AC and 240 VA at 240 Volts AC and its maximum inrush current is 25 Amps at 132 Volts AC. The 1769-PA4 has a current capacity of 4 Amps at 5 Volts DC and one of 2 Amps at 24 Volts DC, a nominal input voltage of 120 to 220 Volts AC, a Wattage of 18 Watts, and an output voltage of 24 Volts DC. Its isolation voltage is continuous at 265 Volts from AC power input to the system.

The Allen-Bradley product with part number 1769-PA4 is a CompactLogix component that functions as an I/O Power supply. This CompactLogix I/O power supplies backplane power which is distributed to the 1769 Compact I/O modules. This power supplies is capable of powering modules from both sides of the unit. Compact I/O modules may be installed on each side of the I/O expansion power supply where up to Eight (8) modules may be installed for a total of 16 Compact I/O modules.

This power supply features selectable voltage input range of 85 to 265V AC or 170 or 265V AC. Before energizing the power supply, ensure that the correct selection is activated to prevent damage to the module. This power supply component has a rated current output of 4.0A at 5VDC and 2.0A at 24VDC. This Power supply is compatible for installations in a CompactLogix assembly with a high number of discrete outputs and analog modules.

This power supply is installed with an internal fuse. This fuse may be replaced with the part numbers Wickmann 19195-3.15A or Littelfuse 02153.15MXP.

Power supply planning is essential in building a CompactLogix assembly this is due to the fact that the power supply is the module referenced by the power supply distance rating requirement. This module requirement must be followed to maintain a valid CompactLogix configuration. Including the processor and communication modules, any module must not exceed the defined power supply distance rating. About 1769-PA4

The power supply unit with the catalog number 1769-PA4 is made by Allen-Bradley/Rockwell Automation. The unit is part of the 1769 CompactLogix I/O series and it is built in accordance with all the relevant standards and regulations. The 1769-PA4 compact power supply has an operating voltage range of 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit) and it can be stored in a temperature range of -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit). The unit is used in relative humidity range of 5 to 95% (non-condensing) and it can withstand 30 g of shock. The specified vibration rating of the unit is a 5 g at 10 to 500 Hertz.

The 1769-PA4 power supply has an input voltage range of 85 to 265 Volts AC or 170 to 265 Volts AC. The voltage range can be selected with the use of a switch. The nominal input voltage is 120/220 Volts AC. In addition to that, the power consumption of the 1769-PA4 power supply unit is 200 Volt-Amps at 120 Volts AC and 240 Volt-Amps at 240 Volts AC. The power dissipation of the unit is 18 Watts at the maximum temperature. The 1769-PA4 unit has a current capacity of 4 Amps at 5 Volts and 2 Amps at 24 Volts. The maximum inrush current is 25 Amps at 132 Volts AC and the continuous isolation voltage is 265 Volts. The unit uses a Wickmann 19195-3.15A or Littelfuse 02183.15MXP fuse and it provides 2 mounting options. The mounting options include DIN rail mounting or panel mounting. The 1769-PA4 unit weighs around 525 grams or 1.16 pounds and it has the following dimensions (H x W x D): 118 x 70 x 87 millimeters (4.65 x 2.76 x 3.43 inches).

Technical Specifications

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