RHINO Installation Instructions for PSS24-035 Power Supply

Automation Direct

READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.

1. Safety instructions

- To ensure sufficient convection cooling, always maintain a safety distance of ≥ 20 mm [.79in] from all
 ventilated surfaces while the device is in operation.
- The device is not recommended to be placed on low thermal conductive surface, for example, plastics.
- Note that the enclosure of the device can become very hot depending on the ambient temperature and load
 of the power supply. Do not touch the device while it is in operation or immediately after power is turned OFF.
 Risk of burning.
- Do not touch the terminals while power is being supplied. Risk of electric shock.
- Prevent any foreign material, particles or conductors from entering the device through the openings during
 installation. It can cause electric shock, safety hazard, fire, and/or product failure.
- Warning: When connecting the device, secure GND connection before connecting L and N. When disconnecting the device, remove the L and N connections before removing the GND connection.

2. Device description (Fig. 1)

- (1) Input & Output terminal block connector
- (2) DC voltage adjustment potentiometer
- (3) DC OK control LED (green)

3. Installation of the Device (Fig. 2)

- A. Mounting holes for power supply assembly onto the mounting surface. Power supply shall be mounted on minimum 2 mounting holes using M3 x 0.5 screw minimum 5 mm (0.19in) length.
- B. This surface belongs to customer's system or panel where the power supply is mounted.
- C. Connector.

Use flexible (stranded wire) or solid wire 0.52-3.3 mm² (AWG 20-12). The torque at the connector shall not exceed 1.3 Nm (11.3 in-lb). The insulation stripping length should not exceed 0.28 in or 7 mm. AutomationDirect P/N BM-00120 lug or equivalent recommended for stranded wire. Refer to figure 3.

4. Installation of Mounting Accessories (Fig. 4)

- Only use M3 screw ≤ 6 mm through the base mounting holes. This is to keep a safety distance between the screw and internal components.
- Recommended mounting tightening torque: 0.4 to 0.8 Nm (3.5 to 7 in-lb).

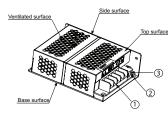


Figure 1 - Device Descriptions





Base Mounting (Vertical)

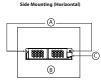


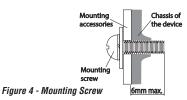
Figure 2 - Mounting

AutomationDirect P/N BM-00120 can be used.





Figure 3 - Wire Type



Technical Data For PSS24-035

Inspiration Section	Technical Data For P3327-033	
Frequency	Input (AC)	
Nominat Juriert	Input voltage range	85-264VAC (DC input range 100-375 VDC)
Normal current	Frequency	47-63Hz (0 Hz @ DC input)
Lestage current - 1 mA		0.72A Max. @ 115VAC, 0.4A Max. @ 230VAC
Recommended closed browler (Characteristic B)	Inrush current limitation. I2t (+25 °C) typ.	< 30A @ 115VAC, 60A @ 230VAC
Dulput (IC)	Leakage current	<1 mA
Nominal output Voltage / Adjustment range	Recommended circuit breaker (Characteristic B)	10A
Saw	Output (DC)	·
Again Agai	Nominal output Voltage / Adjustment range	24VDC / 22-28VDC
PARD (piple and noise) (20MHz)	Output power	35W
Start-up time	Output current	1.46A
Start-up time	PARD (ripple and noise) (20MHz)	<150mVpp (@nominal values)
Hold-up lime		
Rise time		
SBS% @ 115VAC, Selfs @ 230VAC	Rise time	< 30ms @ 100% load (25°C [77°F])
Line regulation	Efficiency	
Load regulation		
Case cover		
Aluminium (Al1100)	- v	7,000,000,000,000
Dimensions (L x W x H) 128 mm x 97 mm x 38 mm (\$.04 in x 3.82 in x 1.50 in)		Aluminium (Al1100)
Weight D.237 kg (0.52 lb)		
MTBF		
Noise Sound pressure Evel (SPL) < 40 dBA	MTBF	
Convection Convection	Noise	
Input/Output terminal Terminal block 5 Pin rated 300V/20A	Coolina	
Wire size / torque 0.52-3.3 mm² (AWG 20-12) / 1.3 Nm (11.3 in-lb) Input/Output wire AWG20-12 Shock test 30g half sine, 3 time per direction, 6 directions, per IEC60068-2-27 Vibration 10 to 150Hz, 5g, 20 min. each axis per IEC60068-2-6 Safety / Environmental FCC Title 47, Class B/EN55032;CISPR32, Class B EMC / Emissions FCC Title 47, Class B/EN55032;CISPR32, Class B Immunity EN 61000-4-2,1995; EN61000-4-3,1998; EN61000-4-4,1995; IEC61000-4-5,1995; EN61000-4-6,1996; EN61000-4-12 or IEEE C62.41; EN61000-3-2,1994 Voltage dips Conform to EN61000-4-11 Galvanic isolation Input to Output: 3KVAC, Input to Ground: 1.5KVAC, Output to Ground: 0.5KVAC Approvals UR/cUR recognized to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL62368-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL62368-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC62368-1, CE (EMC and Low Voltage discenses and cSA C22.2 No. 62368-1; CB test certificate and report to IEC62368-1, CE (EMC and Low Voltage discenses and cSA C22.2 No. 62368-1; CB test certificate and report to IEC62368-1, CE (EMC and Low Voltage discenses and cSA C22.2 No. 62368-1; CB test certificate and report to IEC62368-1, CE (EMC and Low Voltage discenses and cSA C22.2 No. 62368-1; CB test certificate and report to IEC62368-1, CE (EMC and Low Voltage discenses and cSA C22.2 No. 62368-1; CB test certificate and report to IEC62368-1, CE (EMC and Low Voltage		Terminal block 5 Pin rated 300V/20A
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Safety / Environmental EMC / Emissions FCC Title 47, Class B/EN55032;CISPR32, Class B Immunity EN 61000-4-2,1995; EN61000-4-3,1995; EN61000-4-4,1995; EC61000-4-5,1995; EN61000-4-6,1996; EN61000-VIEC61000-4-12 or IEEE C62.41; EN61000-3-2,1994 Voltage dips Conform to EN61000-4-11 Galvanic isolation Input to Output: 3KVAC, Input to Ground: 1.5KVAC, Output to Ground: 0.5KVAC Approvals UR/cUR recognized to UL60950-1 and CSA C22.2 No. 60950-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR recognized to UL60950-1 and CSA C22.2 No. 62368-1; CB test certificate and report to IEC60950-1, UR/cUR rec	Vibration	
EMC / Emissions FCC Title 47, Class B/EN55032;CISPR32, Class B	Safety / Environmental	1
Immunity	EMC / Emissions	FCC Title 47. Class B/FN55032:CISPB32. Class B
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Slorage lemperature -25 °C to +85 °C (-13°F to 185°F)		-10 °C to +70 °C* (14°F to 158°F)
Humidity at 125 °C no condensation	Storage temperature	
CIUTIUM AL TESTON, NO CONTROLEMANT	Humidity at +25 °C, no condensation	< 95 % RH non-condensing

^{*} Operating to 70 °C (158°F) possible with a linear derating to half power from 50 °C to 70 °C (122°F to 158°F)