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#### **SIEMENS PSU300M**

# Siemens SITOP PSU300M DIN Rail Power Supply (6EP1436-3BA10) User Manual

#### 1. Introduction

This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of the Siemens SITOP PSU300M DIN Rail Power Supply, model 6EP1436-3BA10. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent potential hazards.

# 2. SAFETY INSTRUCTIONS

**Warning:** Electrical equipment must only be installed, operated, and maintained by qualified personnel. Failure to observe these instructions can result in death, serious injury, or property damage.

- Always disconnect power before performing any installation, wiring, or maintenance work.
- Ensure proper grounding of the device.
- · Protect against accidental contact with live parts.
- Observe all local and national electrical codes and regulations.
- Do not operate the device if it is damaged or if any components are missing.
- Ensure adequate ventilation to prevent overheating.

## 3. PRODUCT OVERVIEW

The Siemens SITOP PSU300M (model 6EP1436-3BA10) is a robust 3-phase DIN rail power supply designed for industrial applications. It provides a stable 24V DC output with a current capacity of 20A, delivering up to 480W of power. Its compact design and high efficiency make it suitable for various automation and control systems.



Figure 1: Front view of a Siemens SITOP Power Supply. This image illustrates the general appearance and terminal layout typical for Siemens SITOP DIN rail power supplies, including input and output connections. Note: The model number visible on the device in this image is 'PSU8200', however, this manual pertains to the Siemens SITOP PSU300M, model 6EP1436-3BA10.

# **Key Features:**

• Input: 3AC 400-500V, 50/60 Hz

• Output: +24V DC, 20A

• Power: 480W

• Form Factor: DIN Rail mountable

· High efficiency and reliability

## 4. Specifications

| Parameter          | Value                       |
|--------------------|-----------------------------|
| Brand              | SIEMENS                     |
| Model Number       | 6EP1436-3BA10               |
| Series             | PSU300M                     |
| Input Voltage      | 3AC 400-500V                |
| Input Frequency    | 50/60 Hz                    |
| Output Voltage     | +24V DC                     |
| Output Current     | 20A                         |
| Output Power       | 480W                        |
| Form Factor        | DIN Rail                    |
| Dimensions (LxWxH) | 13.39 x 15.75 x 7.48 inches |
| Weight             | 2.64 pounds (1.2 Kilograms) |
| Cooling Method     | Air                         |

## 5. SETUP AND INSTALLATION

## 5.1 Mounting

- 1. Ensure the mounting surface is stable and capable of supporting the device's weight.
- 2. Mount the power supply vertically on a standard 35mm DIN rail.
- 3. Allow sufficient clearance (minimum 50mm top and bottom, 10mm sides) for proper air circulation and cooling.
- 4. Secure the device firmly to the DIN rail using its integrated clips.

# **5.2 Wiring Connections**

Before making any connections, ensure that the main power supply is disconnected and secured against accidental re-connection.

- Input Connections (3AC 400-500V): Connect the three-phase AC input lines to terminals L1, L2, and L3. Connect the protective earth (PE) conductor to the PE terminal. Use appropriate wire gauges for the input current (1.2A-1.0A).
- Output Connections (+24V DC / 20A): Connect the positive (+) load wire to the +24V terminal and the
  negative (-) load wire to the 0V terminal. Ensure correct polarity. Use appropriate wire gauges for the output
  current (20A).
- Tighten all terminal screws securely to prevent loose connections, which can cause overheating or intermittent operation.

Refer to the product label and the image in Section 3 for the exact location of input and output terminals.

# 6. OPERATING INSTRUCTIONS

# 6.1 Powering On

- 1. Verify all wiring connections are correct and secure.
- 2. Ensure the load connected to the output is within the specified limits (24V DC, 20A).
- 3. Restore the main AC input power.
- 4. The power supply will start up and provide 24V DC output. Check for any status indicators (e.g., LED) on the device, if present, to confirm normal operation.

# **6.2 Powering Off**

- To power off the device, disconnect the main AC input power supply.
- The output voltage will drop to zero.

# 6.3 Output Voltage Adjustment (if applicable)

Some SITOP power supplies feature a potentiometer for fine adjustment of the output voltage. If present on your model, this adjustment should only be performed by qualified personnel using a calibrated voltmeter. Refer to the device's front panel for the location of any adjustment screws.

# 7. MAINTENANCE

The Siemens SITOP PSU300M is designed for minimal maintenance. However, periodic checks can help ensure long-term reliability.

- Cleaning: Ensure the device is free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents. Ensure power is disconnected before cleaning.
- Ventilation: Regularly check that ventilation openings are not obstructed to ensure proper airflow and prevent overheating.
- **Connections:** Periodically inspect terminal connections for tightness. Loose connections can lead to increased resistance and heat.
- Environmental Conditions: Ensure the operating environment remains within the specified temperature and humidity ranges.

## 8. TROUBLESHOOTING

Before troubleshooting, always disconnect the input power supply.

| Problem                      | Possible Cause   | Solution   |
|------------------------------|--|--|
| No output voltage            | No input voltage; Blown fuse;<br>Internal fault; Overload/Short<br>circuit | Check input power supply; Check external fuses; Disconnect load to check for overload/short circuit; If problem persists, contact support. |
| Output<br>voltage too<br>low | Overload; Incorrect wiring;<br>Internal fault                              | Reduce load; Verify wiring connections; If problem persists, contact support.  |

| Pı | roblem     | Possible Cause   | Solution   |
|----|------------|--|--|
| O  | verheating | Insufficient ventilation;<br>Overload; High ambient<br>temperature | Ensure proper clearance for airflow; Reduce load; Check ambient temperature. |

For issues not covered here, or if troubleshooting steps do not resolve the problem, contact Siemens technical support or a qualified service technician.

# 9. WARRANTY AND SUPPORT

For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact your Siemens distributor or sales representative. General product support and technical assistance can be obtained through the official Siemens website or by contacting their customer service department.

For further information, visit the official Siemens website: www.siemens.com

# **Related Documents - PSU300M**





# Siemens SITOP PSU300S 6EP1437-2BA20: 24V 40A Switch Mode Power Supply Operating Instructions

Comprehensive operating instructions and technical specifications for the Siemens SITOP PSU300S 6EP1437-2BA20, a 24V 40A 3-phase AC input switch mode power supply unit. Covers safety, mounting, connection, technical data, signaling, and accessories.



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#### Siemens SITOP PSU100S Series 24V DC Power Supply User Manual and Technical Data

Comprehensive operating instructions and technical specifications for Siemens SITOP PSU100S series 24V DC power supplies, including models 6EP1332-2BA20, 6EP1333-2BA20, and 6EP1334-2BA20. Covers installation, safety, technical data, and accessories.