SIEMENS

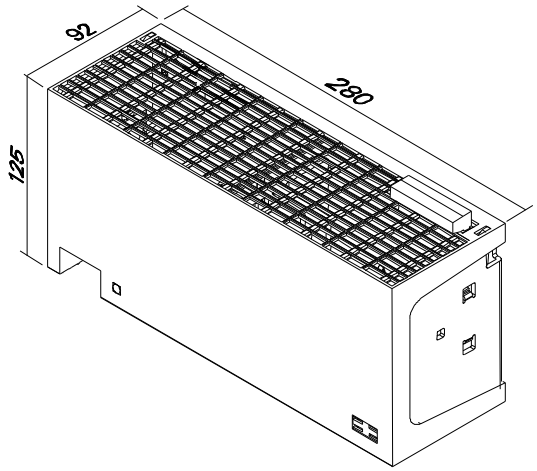
SITOP power 20 **6EP1336-2BA00**

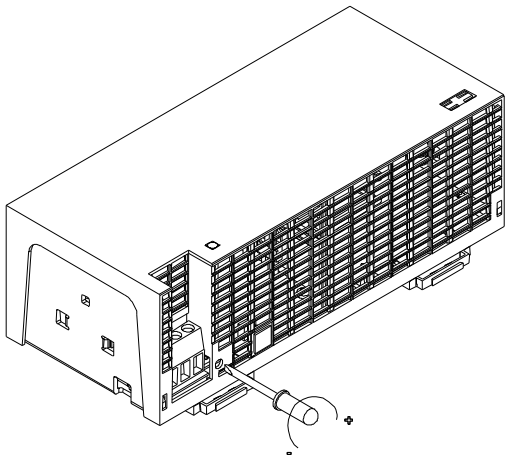
Betriebsanleitung
Operating instructions
Instructions
Istruzioni di servizio
Instrucciones

Best. Nr.: C98130-A7516-A1-02-19

Maßbild
Dimension drawings
Encombrement
Disegno quotato
Croquis acotado

SITOP power 20





Hinweis
Diese Betriebsanleitung enthält aus Gründen der Übersichtlichkeit nicht sämtliche Detailinformationen zu allen Typen des Produkts und kann auch nicht jeden denkbaren Fall der Aufstellung, des Betriebes oder der Instandhaltung berücksichtigen. Weiterführende Hinweise erhalten Sie über die örtliche Siemens-Niederlassung bzw. aus dem Katalog KT 10 Stromversorgungen SITOP power. Technische Änderungen jederzeit vorbehalten.

Note
These instructions cannot claim to cover all details of possible equipment variations, nor in particular can they provide for every possible example of installation, operation or maintenance. Further information is obtainable from your local Siemens office or from Catalog KT 10 Power Supplies SITOPpower. Subject to change without prior notice.

Note
Pour des raisons de clarté, cette notice ne contient pas toutes les informations de détail relatives à tous les types du produit et ne peut pas non plus tenir compte de tous les cas d'installation, d'exploitation et de maintenance imaginables. . Pour de plus amples informations, veuillez-vous adresser à votre agence Siemens ou consultez le catalogue KT 10 Alimentations SITOP power. Sous réserve de modifications techniques.

Nota
Ai fini della chiarezza le presenti istruzioni di servizio non contengono tutte le informazioni dettagliate su tutti i tipi del prodotto e non possono nemmeno trattare tutti i casi di installazione, di esercizio o di manutenzione. Per ulteriori informazioni rivolgersi alla filiale Siemens di zona o consultare il catalogo KT 10 Alimentatori SITOPpower. Ci riserviamo eventuali modifiche tecniche.

Nota
Por razones de claridad, estas instrucciones no contienen todas las informaciones detalladas relativas a todos los tipos del producto ni pueden considerar todos los casos de instalación, de operación y de mantenimiento imaginables. Para más información, contacte con la sucursal local de Siemens o consulte el catálogo KT 10 Fuentes de alimentación SITOP power. Sujeto a cambios técnicos sin previo aviso.

WARNING

Hazardous voltages are present in certain parts of this electrical equipment during operation.
Incorrect handling of the equipment can result in death, severe personal injury or substantial property damage.
Only qualified personnel are allowed to work on or around this equipment.
The successful and safe operation of this equipment is dependent on proper transport, storage and installation.
Potentiometer R230 is only allowed to be actuated using an insulated screwdriver to DIN 7437, because accidental contact may be made with parts inside the equipment carrying dangerous electrical voltage.

CAUTION

The device may only be opened by qualified personnel.
Electrostatically sensitive devices (ESD)

Description and Design

The SITOP 24V/ 20A power supply is a device of the built-in type. The pertinent DIN/VDE standards or country-specific specifications apply to the installation of the device.

Power supplies with primary AC input for mounting on standard rails as per DIN EN 50022-35x15/7.5.

For connection to a single-phase power supply. Rated voltages of 120V and 230V, 50/60Hz.

Output voltage +24V DC, electrically isolated, short-circuit proof and idling proof.

Technical Data

6EP1336-
2BA00

Input values

Rated input voltage:
120/230V 50/60Hz
Operating voltage range:
93 to 132V 187 to 264V

Efficiency at full load (typical):
87%

Inrush current limitation (25°C) as standard
<81A, <8A^{2}s

Recommended miniature circuit-breaker characteristic C
16A

Input current at 120/230V:

8.0/3.3A$_{rms}$

Power input (active power):
275W

Output values

Output DC voltage:
As supplied: 24V ±1%
Setting range by screwdriver adjustment of potentiometer R230 (beneath device, position shown on page 2) from 22.8 to 26.4V

Output voltage ripple:
<150mV$_{peak-to-peak}$ residual ripple
<240mV$_{peak-to-peak}$ switching peaks

Output DC current:
0 to 20A

It is permissible to connect two devices of the same type in parallel in order to increase the output.
(See notes in Catalog KT 10)

Environment

Temperature
Storage and transport: -25 to +85°C
Operation: 0 to +55°C
Operation in parallel connection or at increased output voltage: 0 to +45°C

Humidity rating: corresponding to Climatic Category 3K3 as per EN60721, Part 3

No condensation, natural air cooling

Protection and monitoring function

Steady-state current limitation: typ. 22A

Short-circuit behaviour (output)
automatic restart

Power system failure buffering:

>10ms at 93/187V

Standards and specifications

Degree of protection: IP20 to IEC 529

Class of protection: 1 to IEC 536

Safety to VDE 0160 and VDE 0805 (EN60950): SELV

Emitted interference to EN50081-1
Radio interference suppression to EN55022, limit value characteristic B

Noise immunity to EN 50082-2 incl. Table A4

Limitation of input current harmonics to EN61000-3-2

UL508/CSA 22.2 FILE E143289

Weight

2 kg

Installation

To ensure adequate cooling, the device must be installed vertically so that the input terminals are at the top and the output terminals at the bottom. Be sure to leave a minimum clearance of 50 mm above and below and 40mm to the left of the device.

The supply voltage (AC 120/230V) and optional jumper for the 120V range must be connected in accordance with VDE 0100 and VDE 0160. A protective device (fuse) and an isolating device for disconnecting the power supply must be provided.

The mains switch has to be switched off and prevented from being switched on again before installation or maintenance. If these rules are not adhered to, contact with live parts or improper use can result in death or severe personal injury.

If the equipment is operated in the 120V range, a jumper must be wired between the two "AC120V-JUMPER" terminals. It must have the same cross-section and insulation as the power supply cables. It must not be longer than 100mm (4in.).
Important: The optional jumper also carries dangerous electrical voltage!

Connections and terminal assignment

Terminals	Function	Terminal range	Remarks
L1, N	Input voltage AC 120/230 V	0.14 to 2.5mm^2 (AWG 22..12)	Screw-type terminals. Use a screwdriver with a blade width of 3.5 mm. Recommended tightening torque 0.5-0.7 Nm
PE	Protective earth conductor		
AC 120V-JUMPER	Optional jumper for operating voltage range 93-132V		
L+, M	Output voltage DC 24 V	0.33 to 10 mm^2 (AWG 22...8)	Screw-type terminals. Use a screw driver with a blade width of 5 mm. Recommended tightening torque 1.2 Nm.

The German text applies in cases of doubt