MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6EP1334-1SL12

24 V DC POWER SUPPLY

Used with the applicable SITOP power 10 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6EP1334-1SL12

SIEMENS

SITOP-Stromversorgung
SITOP-Power supply
Alimentation SITOP
Alimentazione SITOP
Fuente de alimentación SITOP

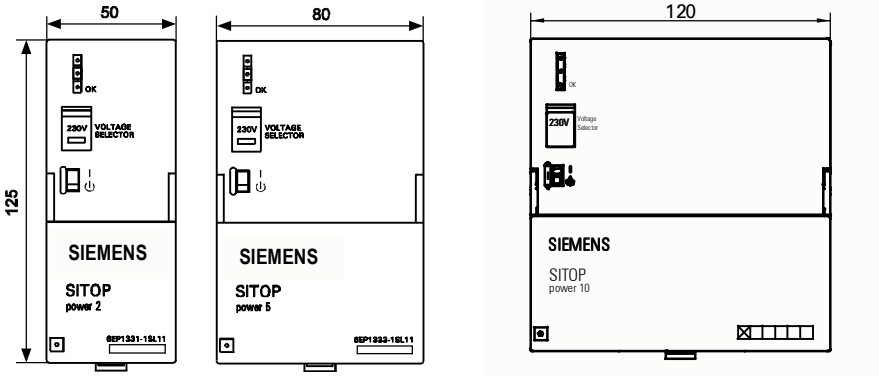
SITOP power 2	**24V 2A**	**6EP1331-1SL11- Index 4, 5 ....**
SITOP power 5	**24V 5A**	**6EP1333-1SL11- Index 5, 6 ....**
SITOP power 10	**24V 10A**	**6EP1334-1SL12- Index 1, 2 ....**

Betriebsanleitung
Operating instructions
Instructions
Istruzioni di servizio
Instrucciones

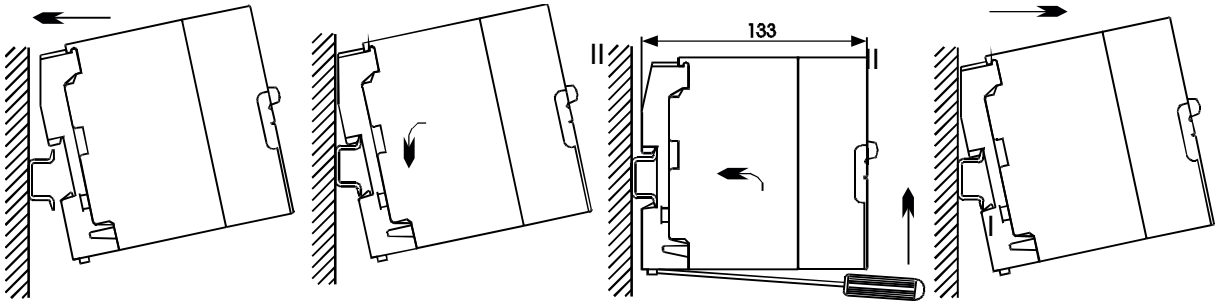
Best. Nr.: C98130-A7553-A2-03-6419



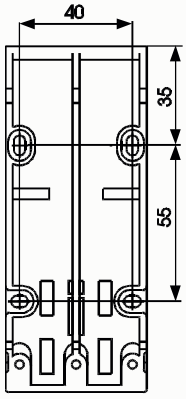
Maßbild **SITOP power 2** **SITOP power 5** **SITOP power10**
Dimension drawings
Encombrement
Dimensioni d'ingombro
Croquis acotado



Montage Installation Montage Montaggio Montaje



Wandmontage
Wall mounting
Montage murol
Montaggio su muro
Montaje mural



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 this electrical equipment during operation. Failure to properly maintain the equipment can result in death, severe personal injury or substantial property damage. Only qualified personnel is allowed to work on or around this equipment. The successful and safe operation of this equipment is dependent on proper handling, installation and operation.

CAUTION
Electrostatically sensitive device (EGB). The device may only be opened by qualified personel.

Description and construction

The SITOP 24V/2A, 5A, 10A power supplies are rail-mounted built-in units. The relevant DIN/VDE regulations or equivalent local regulations must be observed during installation.

Primary switched-mode power supply for mounting on a DIN EN 50022-35x15.

For connection to 120 or 230V, 50/60Hz single-phase AC system.

Output voltage +24V DC, potential-free, protected against short-circuit and open-circuit conditions.

Technical specifications

6EP1331-1SL11	6EP1333-1SL11	6EP1334-1SL12

Input data

AC input voltage:
120/230V, 50/60Hz

Tolerance: 85-132V
170-264V

Overvoltage proof:
according to EN61000-4-1 A.2

Efficiency at full load and 230V:
>82% 87% 89%

Limitation of inrush current (25°C) standard at 230V AC:
<20A, 1A^{2}s 45A, 1.2A^{2}s 55A, 3.3A^{2}s

Recommended circuit breaker, characteristic C.
3A 6A 10A

Input current(120/230V):
0.9/0.6A 2.2/1.3A 4.1/1.8A

Power consumption:
58W 138W 270W

Weight

0.42kg/0.92lb. 0.75kg/1.65lb. 1.10kg/2.42lb.

Output variables

DC output voltage:
24V ± 3%

Ripple content of output voltage:
<150mV$_{ss}$ ripple
<240mV$_{ss}$ spikes

DC output current:
0-2A 0-5A 0-10A

Two units of the same type may be connected in series to increase the voltage output (see notes in Catalog KT10). Parallel connection to increase the power output is not allowed.

Environmental conditions

Temperature
Non-operating: -40 to +85°C (-40 to +185°F)
Operating: 0 to +60°C (+32 to +140°F)

Humidity rating:
according to EN 60721 class 3K3
<75% as the annual average
35% in 30 days
no moisture condensation

Natural air convection cooling

Protection and monitoring functions

Current limitation:
Typ. 1.1 - 1.3 I_{rated}

Response to short-circuit (output):
Automatic restart

Mains buffering time:
>20ms at 93/187V line voltage and full load
UA overvoltage protection already in standard version

Fuse:
T 1.6A/250V F 4A/250V 6.3A/250V

Standards and specifications

Degree of protection: IP20 to IEC 529

Degree of protection: 1 to IEC 536

Safety to EN50178: SELV

Emission: EN 50081-1, RI suppression to EN55022, limit curve B

Noise immunity: EN 50082-2 incl. Table A4;
IEC 61000-4-5: 2/4kV,EN61000-6-2

The input current harmonics are limited according to EN 61000-3-2.

UL508: FILE E143289 (cULus)
FM; C-Tick;
GL: 6EP1331-1SL11 and 6EP1333-1SL11

Installation

To ensure adequate cooling, the device must be installed vertically, with the input and output terminals at the bottom. Be sure to leave a minimum free space of 40mm (1.6in.) above and below the device.

The supply voltage (AC 120/230V) 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.

The voltage selector is to be adjusted by means of a suitable screw driver, in accordance with the respective input voltage.
U_{IN} 170 – 264V - position 230V; U_{IN} 85 – 132V - position 120V.

Connections and terminal assignment

Terminals	Function	Connected load	Remarks
L1, N	Input voltage AC 120/230 V	0.5 ... 2.5mm^2	Screw-type terminals
PE	Protective earth conductor	22...12 AWG	Use a screwdriver with a blade width of 3.5mm (0.14in.)
L+, M	Output voltage DC 24 V		Recommended tightening torque 0.4 to 0.6Nm (3.6 to 5.4lb.in.)