

LOGO!Power

Betriebsanleitung

Operating instructions

Instructions d'utilisation

Istruzione per l'uso

Instrucciones de uso

Nr.: C98130-A7562-A1-01-6419



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. über die Homepage <http://www.siemens.de/sitop>. Technische Änderungen jederzeit vorbehalten. In Zweifelsfällen gilt der deutsche Text.

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 visit our homepage <http://www.siemens.de/sitop>. Subject to change without prior notice. The German text applies in cases of doubt.

Nota

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 notre site <http://www.siemens.de/sitop>. Sous réserve de modifications techniques. En cas de divergences, le texte allemand fait foi.

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 la homepage <http://www.siemens.de/sitop>. Ci riserviamo eventuali modifiche tecniche. In caso di differenze o problemi è valido il testo tedesco.

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 visite la Web <http://www.siemens.de/sitop>. Sujeto a cambios técnicos sin previo aviso. En casa de duda, prevalece el texto alemán.



Warning notes

LOGO!Power is a stabilized power supply unit designed for use on the single-phase a.c. mains. The power supply unit must be installed in compliance with the relevant DIN/VDE Regulations or the specific national standards. The connection to the supply voltage must be performed in accordance with VDE 0100 and VDE 0160. A protective device (fuse) and a disconnecting switch for safety isolation of the power supply unit must be provided. Trouble-free and safe operation of the unit is dependent on proper transport and storage, as well as installation by qualified personnel.

Danger of electric shock !

During the operation of any electric devices, it is inevitable that certain parts of these devices are subject to hazardous voltages. Improper use of these devices can therefore result in loss of life or severe personal injuries, as well as substantial property damage. Potentiometer U_A is only allowed to be actuated using an insulated screwdriver!



Caution !

Electrostatically sensitive devices (ESD). Devices may only be opened by qualified personnel !

Installation and assembling:

LOGO!Power may only be installed and wired by a qualified expert who is conversant with and observes the generally applicable technical standards and the relevant standards and specifications.

⚠ Danger Before starting any installation or maintenance work, turn the main switch of the plant off and secure the unit against being re-energized. An appropriate disconnecting switch must be provided for maintenance, in order to be able to disconnect the unit from the supply circuit. LOGO!Power is a built-in device and must therefore be installed in a distributor box or a control cabinet. After installation, it must be ensured that all the terminals are properly covered. Only then is the unit sufficiently protected against accidental touching of live parts.

The unit can be snapped onto DIN EN 50022-35x15 or DIN EN 50022-35x7,5 bars. To snap the unit on to the DIN bar, hang it with its nose ① into the bar ③ and press until the spring ② snaps into place (see page 7). If difficulty is experienced in snapping the unit on to the bar, loosen the spring ② slightly as described under "Removing the Power Supply Unit". To remove from the DIN bar, use a screw driver to loosen the spring ② in the direction of the arrow.

Use a screw driver with a 3 mm blade for wiring (Terminal torque is 4,4 Lb-in). No connector sleeves are required for the terminals. You can use wires (use copper wire rated 65/75 °C) up to a cross-section of $1 \times 2,5 \text{ mm}^2$ (AWG 14) or $2 \times 1,5 \text{ mm}^2$ (AWG 16). Under no circumstances may the mains cable and the outgoing feeder be routed together! When using LOGO!Power together with devices subject to the class of protection I (with PE conductor), a link „-“ to “PE” having a min. cross section of 1.5 mm^2 must be established.

To ensure proper heat dissipation, install the unit vertically with the input and output terminals on the top. Clearances of 2 cm should be provided above and beneath the unit, in order not to restrict the natural convection.

Parallel connection of two similar devices to increase the power is permitted (provided the difference of the output voltages is $< 0,2 \%$ and the line impedances are equal to the load).

Technical specifications Specifications valid for input voltage 230 V AC and ambient temperature $+25 \text{ °C}$, unless otherwise stated. They are subject to change without prior notice.

Type: 24V/4A
Order-No.: 6EP1332-1SH51

Input:

Rated voltage V_{in} : 100-240 V AC
Voltage range AC: 85...264 V AC
Voltage range DC: 120...250 V DC
Line frequency range: 47...63 Hz
Mains buffering: $> 40 \text{ ms}$
Rated current I_{in} : 1,95-0,97 A
Protection in the mains supply line: recommended: circuit breaker (IEC 898) up from 16 A char. B or up from 10 A char. C

Output:

Rated voltage V_{out} : 24 V DC
Residual ripple/spikes: $< 200/300 \text{ mV}_{pp}$
Setting range: 22,2...26,4 V DC
Rated current I_{out} : 4 A
Derating: during durable working voltage under 120 V max. 95 W, under 100 V max. 85 W
Current limitation : 4,7 A typ.
Maximum output current: 10 A
Efficiency at full load: 89 % typ.

Environmental conditions:

Transportation and storage temperature: $-40 \text{ °C} \dots +70 \text{ °C}$
Ambient temperature during operation: $-20 \text{ °C} \dots +55 \text{ °C}$ (Notice: Temperatures below -5 °C and voltages $V_{in} < 100 \text{ V}$ may result in a delay for few seconds in booting of the device)
Degree of protection: IP 20
Pollution Degree environment: 2
Humidity rating: Climate category 3K3 acc. to EN 60721, relative air humidity 5...95 %, without condensation
EMC interference emission: EN 50081-1, class B acc. to EN 55022
EMC interference immunity: EN 61000-6-2, EN 61000-4-2/-3/-4/-5/-6/-11

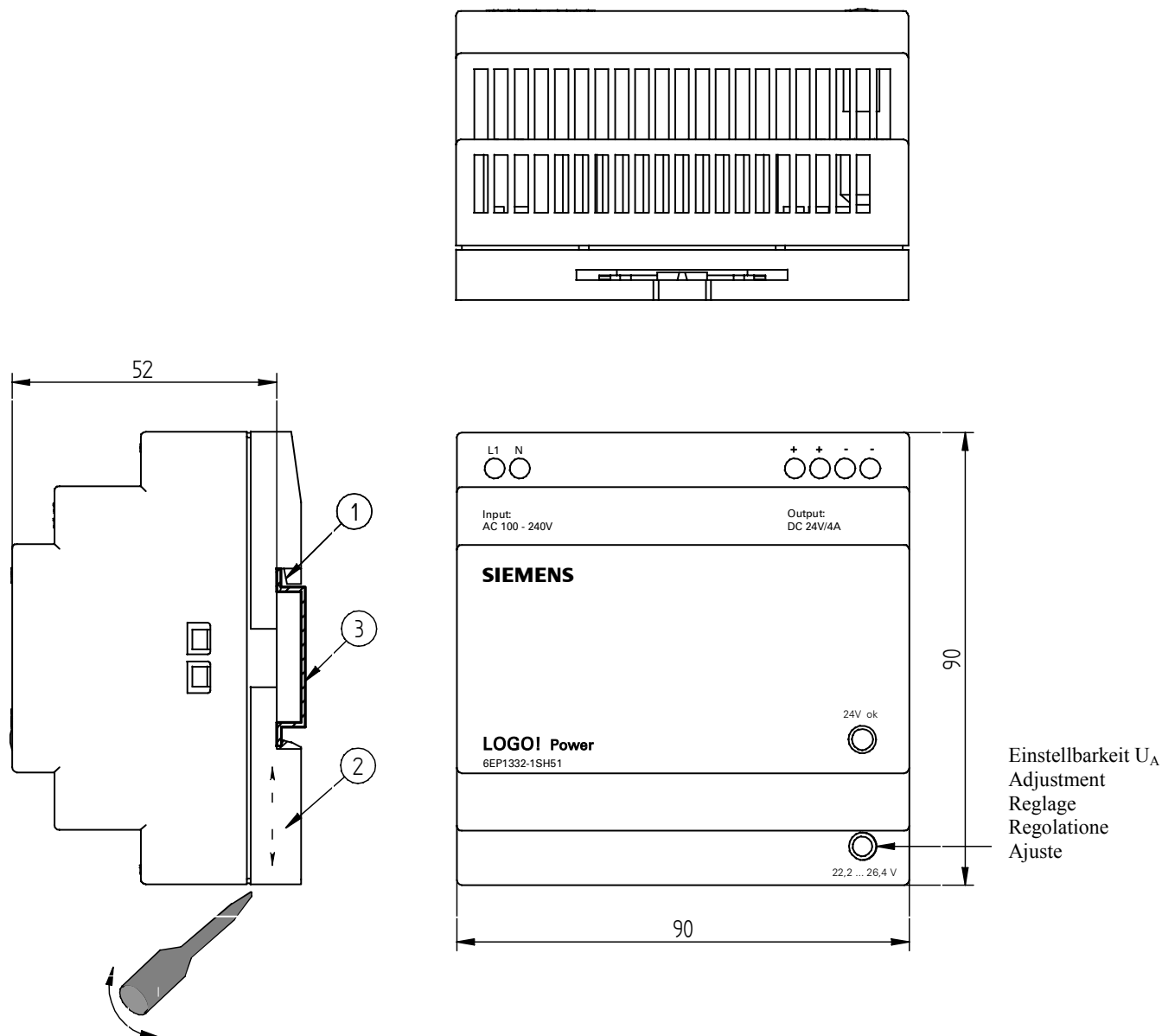
Safety:

Protection class: EN 60950 / UL 60950, Class II (double insulated, without protective earth PE)
Galvanic isolation primary/secondary: SELV output voltage acc. to EN 60950 and EN 50178

Certificates:

CE CE marking acc. to 98/336 EEC and 73/23 EEC
UL UL 508 (Listed, File E197259), UL 60950 (Recognized, File E151273)
CB Scheme IEC 60950-1(ed.1)
FM Class I, Division 2, Groups A,B,C,D, T4
GL Approval for shipbuilding to Germanischer Lloyd

Maßbild/ Montagehinweis
Dimensional drawing/ Installation note
Dimensions / montage
Disegno Quotato / Indicazioni di montaggio
Dimensiones / Indicaciones de montaje



Gewicht ca. / Weight approx. / Poids ca. / Peso ca. / Peso aprox. 0,34kg (0,75 lb)

Herausgegeben von:
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