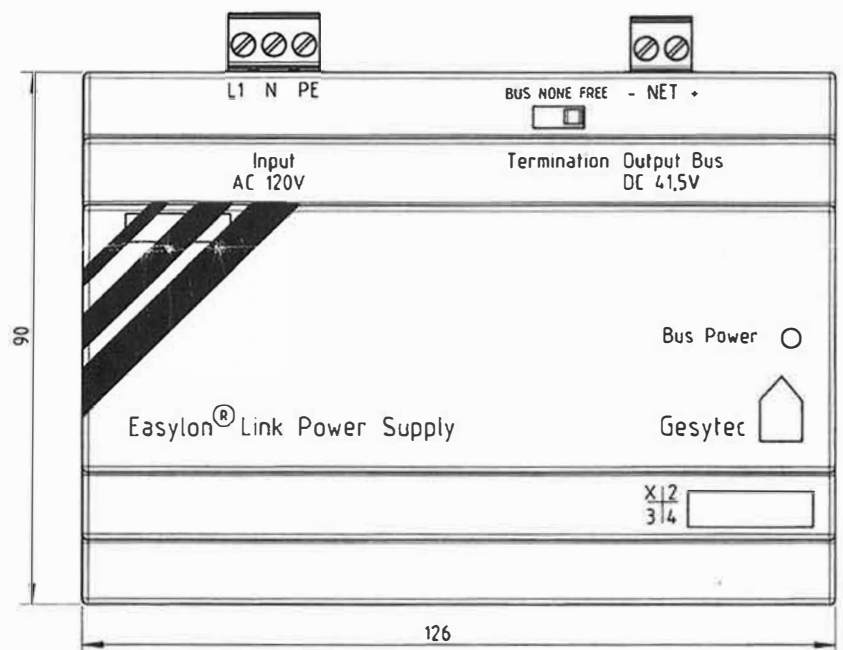
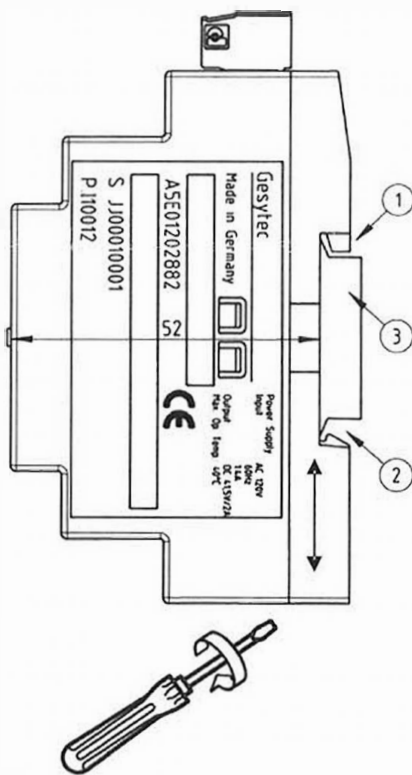


Operating instructions

A5E01202882B-01

Dimensional drawing / Installation note



**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. Technische Änderungen jederzeit vorbehalten. In Zweifelsfällen gilt der deutsche Text.



### Warning notes

Link Power Supply 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.



### Risk 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.

### Installation

Link Power Supply 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.

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 ② and press until the spring ③ snaps into place (see page 1). If difficulty is experienced in snapping the unit on to the bar, loosen the spring ③ slightly as described under "Removing the Power Supply Unit". To remove from the DIN bar, use a screw driver to loosen the spring ③ in the direction of the arrow.

To ensure proper heat dissipation, install the unit vertically with the input and output terminals on the top. Clearances of 5 cm should be provided above and beneath the unit, in order not to restrict the convection.

⚡ Before starting any installation or maintenance work, turn the main switch of the system 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. When using the Link Power Supply together with devices subject to the class of protection I (with PE conductor), a link M – PE having a min. cross section of 1.5 mm<sup>2</sup> must be established.

Use a screw driver with a 3 mm blade for wiring. No connector sleeves are required for the terminals of the enclosed connector. You can use wires up to a cross-section of 1 x 2.5 mm<sup>2</sup> (AWG 14) or 2 x 1.5 mm<sup>2</sup> (AWG 16).

### Network Connection

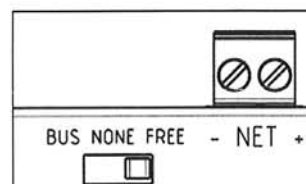
The bipolar netbuswire have to be connected by screw coupling to the enclosed connector. The polarity is shown by an inscription NET+ and NET- on the housing.

The coupling between power supply and bus for LPT and FTT networks is LPI compatible.

### Bus termination

By using Link Power Supply there are three possible kinds of bus termination:

- Nettopology with onesided bus termination: shift the slide switch to the right position (FREE)
- Nettopology with bothsided bus termination: shift the slide switch to the left position (BUS)
- If no termination is required, shift the slide switch to the middle position (NONE)



### Technical specifications Link Power Supply

#### Input data

Rated input voltage  $U_E$ :  
AC 120 V

Input voltage range:  
AC 96 V to 144 V

Rated frequency, frequency range:  
60Hz +5%

Mains buffering time:  
> 20 ms at rated input voltage

Rated input current  $I_E$ :  
1,4 A

Inrush current:  
≤ 20 A

Efficiency  $\eta$ :  
≥ 75% at rated input voltage and rated output current

Recommended circuit-breaker (IEC 898)  
in the mains supply line:  
up from 6A char. D; up from 10A char. C  
or up from 16 A char. B

#### Output data

Rated output voltage  $U_A$ :  
DC 41.5 V +2.2 % / -2.2 %

Output voltage ripple:  
< 80 mV<sub>pp</sub> at 10 kHz  
< 200 mV at  $f > 200$  kHz

Spikes:  
< 200 mV<sub>pp</sub> at 200 kHz <  $f < 1$  MHz

Rated output current  $I_A$ :  
2A

Overload protection typical at:  
2.3 A; permanent short circuit-proof with pulsing  
try of restart

Startup delay and time of restart:  
5 sec. <  $t < 10$  sec.

#### Weight

approx. 0.5 kg (1.1 lb.)

#### Ambient conditions

Permissible ambient temperature:  
- during transport/storage: -40°C to +70°C  
- during operation: 0°C to +40°C

Relative air humidity: 5 to 95 %, without condensation

#### Safety

Degree of protection to EN 60529:  
IP 20

Protection class to EN61140: I (with PE)

Galvanic isolation primary/secondary:  
SELV to EN 61140

#### Electromagnetic compatibility

Emitted interference :  
EN61000-6-3, class B,  
EN50090-2-2

Interference immunity:  
EN 61000-4-2/3/4/5/6, class A

### Certificates

CE (98/336 EWG, 73/23 EWG)

#### Note:

This manual instruction contains all detailed information for all types of the product. Furthermore it does not consider each possible case of installation, operation and maintenance. Subject to technical alteration. In cases of doubt the German text is valid.