

GS2/24V

en

Assembly and Operating Instructions

DC control unit for 24 V DC tubular drives

Important information for:

- Fitters / • Electricians / • Users

Please forward accordingly!

These instructions must be kept safe for future reference.

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General

The DC control unit GS2 is a power supply unit for controlling 24 V Becker DC drives. The performance figures for the control unit are tailored to these drives. If the transformer is overloaded, a thermoswitch in the transformer will deactivate and will only re-activate when the control unit has been disconnected from the mains.

Parallel operation with the DC control unit GS1 is possible, i.e. the drive is powered by DC control unit GS2 when mains voltage is present, and is automatically switched to GS1 battery mode in the event of a power failure. The tubular drive is powered by the supplied voltage at terminal A.

The control unit is encased in a splash-proof housing as a compact unit.

Explanation of pictograms

	CAUTION	CAUTION indicates a hazardous situation which, if not avoided, could result in injury.
	ATTENTION	ATTENTION indicates measures that must be taken to avoid damage to property.
		Denotes user tips and other useful information.

Warranty

Structural modifications and incorrect installation which are not in accordance with these and our other instructions can result in serious injuries, e.g., crushing of limbs. Therefore, structural modifications may only be carried out with our prior approval and strictly in accordance with our instructions, particularly the information contained in these Assembly and Operating Instructions.

Any further processing of the products which does not comply with their intended use is not permitted.

The end product manufacturer and fitter have to ensure that all the relevant current statutory, official and, in particular, EMC regulations are adhered to during utilisation of our products, especially with regard to end product manufacture, installation and customer advice.



Safety instructions

General information

- Only use in dry rooms.
- Only use unmodified original parts from the control unit manufacturer.
- Keep children away from control units.
- Observe all pertinent country-specific regulations.



Caution

- **Risk of injury due to electric shock.**
- **The limits given in the technical data must not be exceeded.**
- **Connections to the 230 V mains must always be established by an authorised specialist.**
- **Disconnect the connecting cable from the power supply prior to assembly.**
- **Always comply with the regulations of local energy supply companies as well as the VDE 100 provisions for wet and damp rooms during installation.**
- **Keep people out of the system's range of travel.**
- **If the system is controlled by one or more devices, the system's range of travel must always be visible during operation.**
- **When connecting the control cables (protected extra-low voltages), only use cables with sufficient electric strength.**

Intended use

The control unit type in these instructions is intended for the supply and control of 24 V DC tubular drives from the company Becker-Antriebe, which are used for sun protection, roller shutters, roller doors and similar blinds or shutters.

The connection of external devices must be carried out in consultation with specialist retailers.

Installation

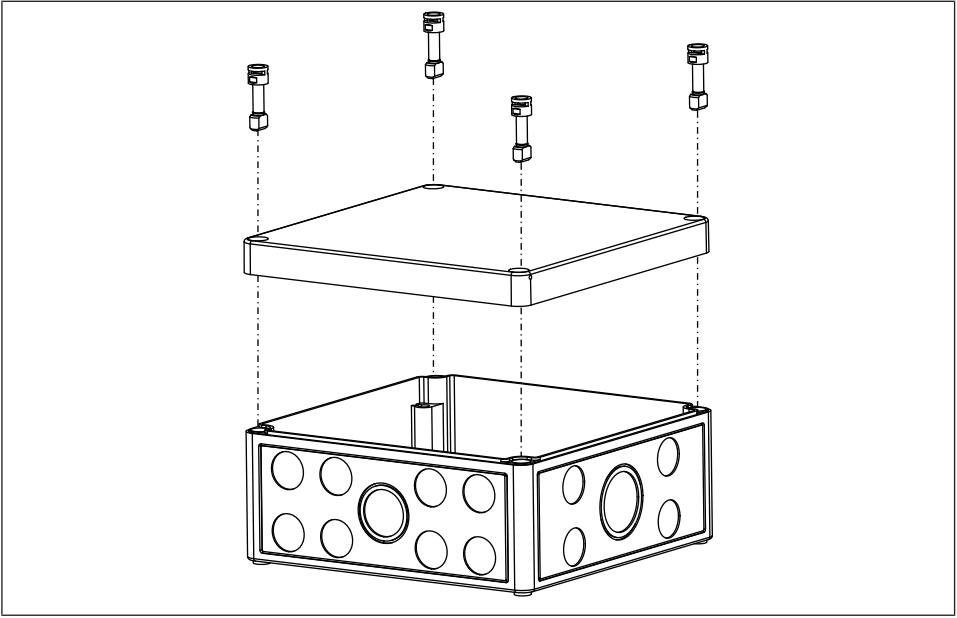


Caution

- **Before installation, the control unit must be checked for any damage sustained in transport or elsewhere. Damage to the interior of the control unit may lead to considerable consequential damage to the control unit and jeopardise the safety of the operator.**
- **It must be ensured that the control unit is installed distortion-free.**
- **During assembly, it must be ensured that the cable glands are pointing downwards.**
- **Any unused cable entries must be closed off by appropriate means in order to maintain the degree of protection of the housing.**
- **The cable entries must not be exposed to any mechanical load, in particularly tensile loads.**
- **The mains plug must be clearly visible and accessible from the control unit.**

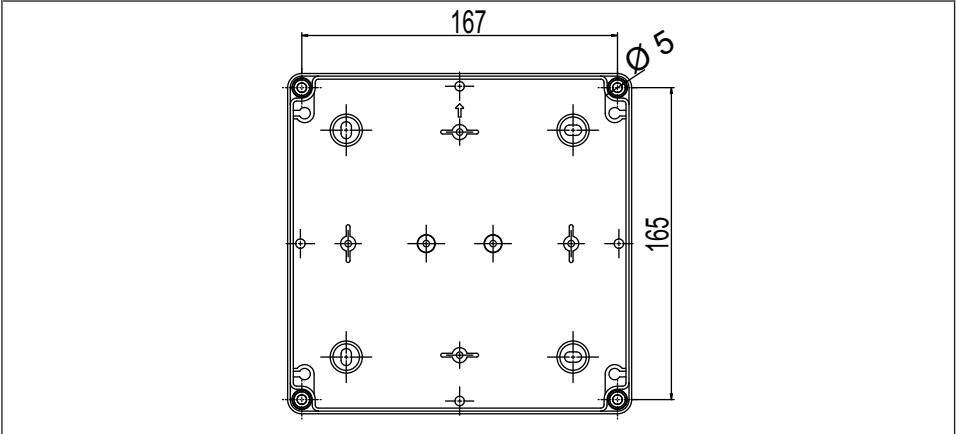


Opening the control unit

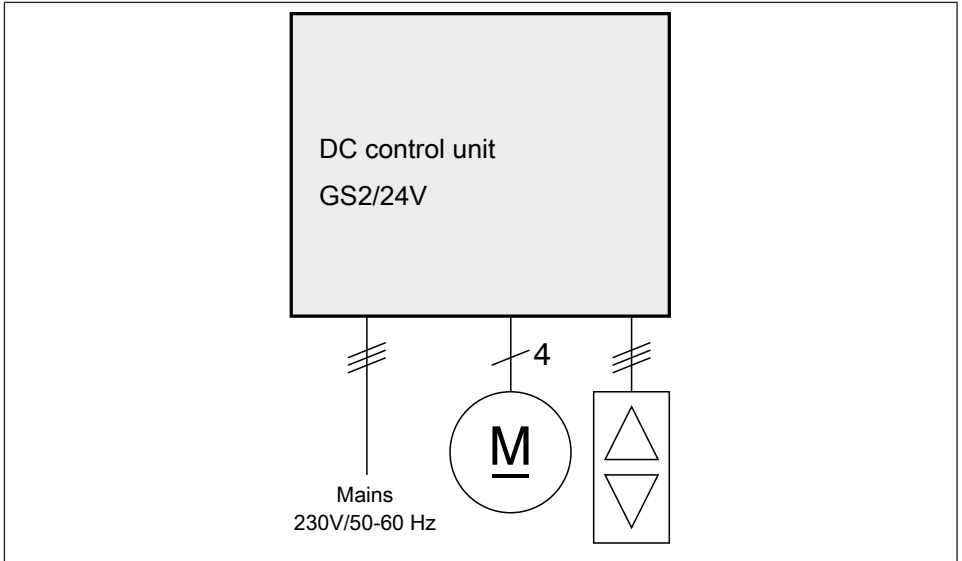


Installation on the wall

Fix the control unit to the wall with the holes provided for this purpose in the corners, using 4 screws (max. screw head diameter: 7.5 mm) that are suitable for the nature of the wall.



Block diagram



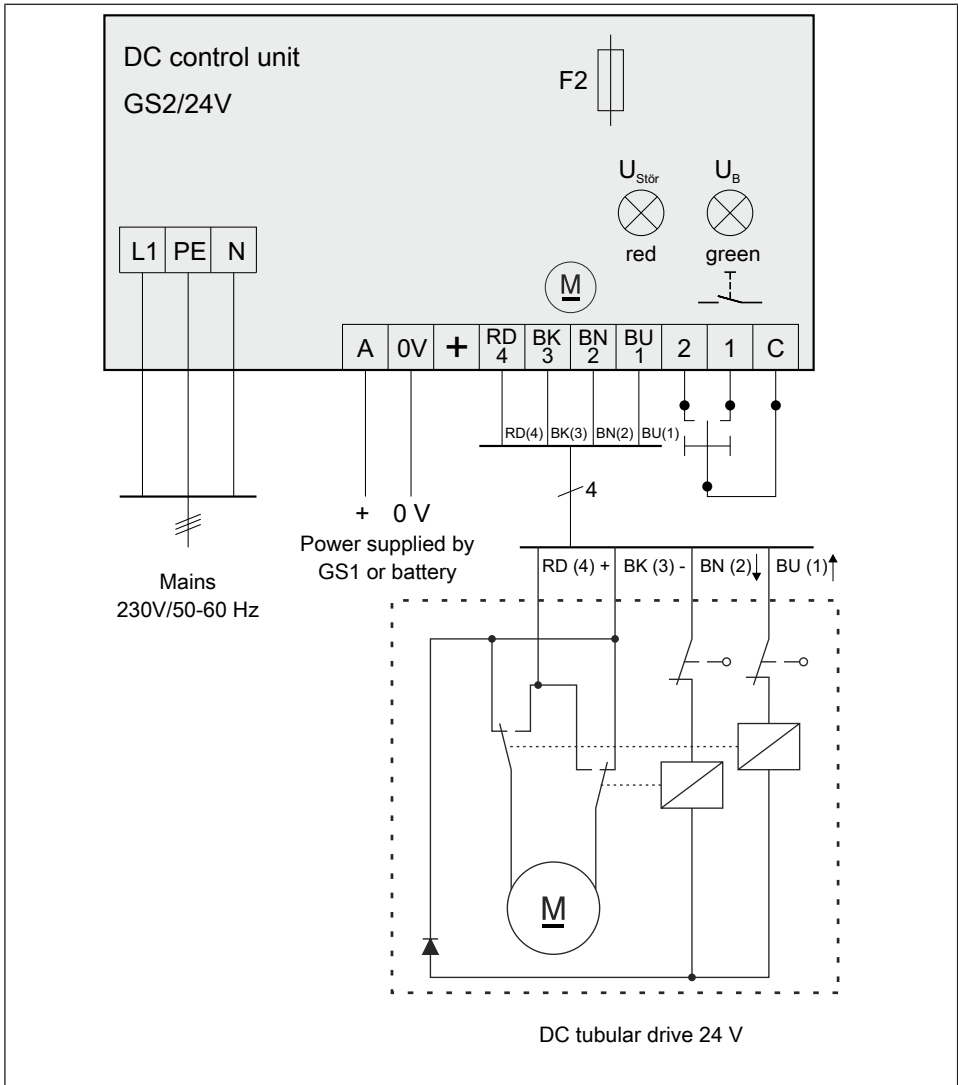
Electrical connection

Battery connection

At terminal A and 0V, power can be supplied either by DC control unit GS1 or by battery. In the event of a power failure, the voltage at terminal A will be used.



Wiring diagram



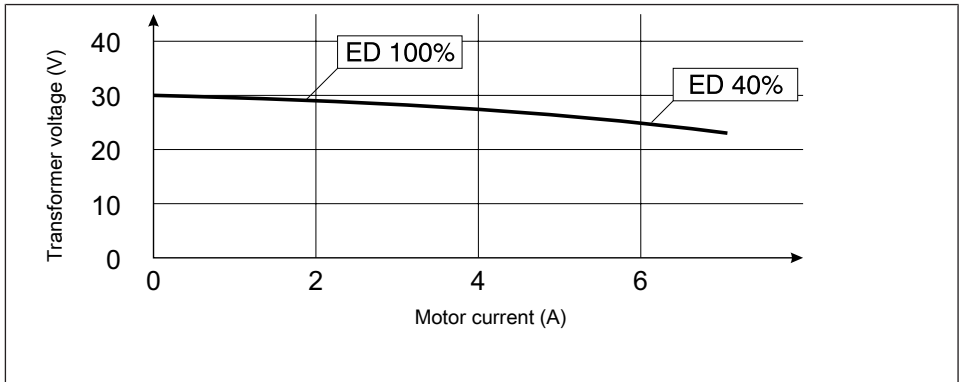
Operation

The green LED serves as a control for the 24 V supply voltage.
The red LED indicates impermissibly high generator operation.



If the tubular drive is powered at over double the rated speed, the voltage will increase to over 50 V, which will be indicated by the red LED. This operating situation must be avoided by means of design-based measures.

As the load on the tubular drive increases, the transformer voltage and the duty cycle decrease.



Maintenance

This control unit is maintenance-free.

Cleaning

Only clean the outside of the housing with a suitable cloth. Do not use cleaning agents, as these may damage the plastic.



Disposal



The crossed-out bin symbol on the product indicates that the device is subject to mandatory disposal separate from household waste. This product must be handed over to a collection point for electrical and electronic equipment at the end of its service life. The packaging material must be disposed of properly.

Technical data

Mains connection	230 V AC/50-60 Hz
Dimensions	180 x 182 x 90 mm (L x W x H) Plastic housing PS
Degree of protection	IP65
Class of protection	II
Permissible ambient temperature	-25 to +40°C, indoors only
Drive switching power	6A / 24 V DC
Fuse	6.3A Tr

Simplified EU declaration of conformity

Becker-Antriebe GmbH hereby declares that this control unit complies with Directives 2014/30/EU and 2014/35/EU.

The full text of the EU declaration of conformity is available at the following web address:

www.becker-antriebe.com/ce



Subject to technical changes without notice.





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