

Installation and Operating Instructions for Terminal box – electric connection

(B.1110.4.GB)

Electric connection of the terminal box

Two terminal box versions are possible with an order of brakes with a terminal box:

Terminal box size 1

Dimensions: 64 x 58 x 36 mm (L x W x H)



The terminal box size 1 can alternatively be assembled with:

- a half-wave -/ bridge rectifier of the size 1
- a 2-pole terminal block
- a spark quenching unit

The elements are directly assembled into the box or via a mounting plate.

Terminal box size 2

Dimensions: 79,5 x 66,5 x 37 mm (L x W x H)



The terminal box size 2 can alternatively be assembled with:

- a half-wave -/ bridge rectifier of the sizes 1 - 4
- a 2/4/6-pole terminal block
- a spark quenching unit

The elements are assembled via a mounting plate.

Terminal cross section

- Terminal block: max. 2,5 mm² / AWG 22-12
- Connector block: max. 1,5 mm² / AWG 26-14

Electric connection

The terminals 1-n of the terminal block can be assigned with various functions, dependent on the design of the brake. Please take the connection possibilities from the wiring diagram attached in the terminal box cover.



When using a rectifier, a spark quenching unit or a micro switch the corresponding installation and operating instructions are to be observed as to the connection (see installation and operating instructions B.02+0006.GB for half-wave and bridge rectifiers as well as B.0700006.GB for spark quenching unit).

Supply line

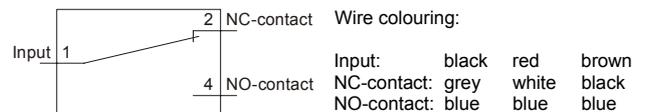
At the terminal end a M20-metal cable gland with a clamp range of 6 – 12 mm is available.

Grounding

The grounding is made via the earth connection screw in the terminal box. An inspection conforming to standards of the connections of all accessible metal parts to PE is to be accomplished!

Release monitoring

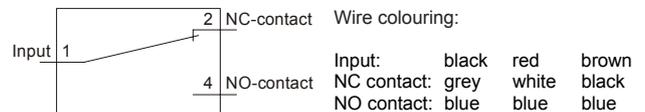
The release monitoring prevents a starting of the drive motor towards the closed brake. The signal of both switch states must be evaluated on the customer side. If nothing else is mentioned in the attached operating and installation instruction, the following applies:



The micro switch has a change-over contact. The contacts 1 and 2 are closed with a closed brake, in case of a released brake the contacts 1 and 4.

Wear monitoring

The wear monitoring unit monitors the wear of the friction linings. If the set wear dimension is exceeded, the contact in the micro switch switches over. The signal of both switch states must be evaluated on the customer side. If nothing else is mentioned in the attached operating and installation instruction, the following applies:



The micro switch has a change-over contact. The contacts 1 and 4 are closed in case of a wear-free condition, if the wear dimension is exceeded (adjustment of the brake is necessary) the contacts 1 and 2 are closed.