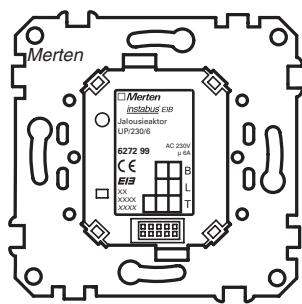


Blind actuator, flush-mounted/230/6**Article no.**

627299

1. Function

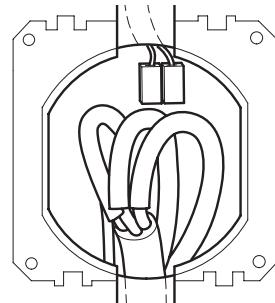
The INSTABUS blind actuator, flush-mounted/230/6 is used for switching a blind or roller shutter motor and has a common connection for the phase and two switched connections (changeover contacts) which are assigned "UP" and "DOWN". The device has an integrated bus coupler and a 10-pole application interface; INSTABUS application modules can thus be clipped on. The function of the application module is determined by the loaded application software.

2. Installation

The switch actuator is located in a plastic housing. It is a flush-mounted device (FM) for screw fixing in a size 60 installation box. The INSTABUS is connected via the bus connecting terminals. The switched channels and the mains voltage, "UP", "DOWN", "L" are connected via three screw terminals. The device is connected and operated according to the connection example.

The programming button and the programming LED are located on the top of the device as well as a 10-pole PEI socket for the connection of different application modules. When connecting the 230 V mains voltage and the bus voltage, it should be ensured that the individual cores of the low voltage cable maintain a minimum distance of 4 mm from those of the bus line.

To guarantee the minimum distance of 4 mm, the following should be noted:



- The opposite entry openings of the installation box should be used for the 230/400 V low voltage cables and the bus line.
- The sheath of the bus cable should be cut as short as possible at the bus terminal (sheath length = 12 mm, insulation strip length = 6 mm).
- The flexible insulating tubes supplied are slipped over the individual cores.

Table of Contents

| | |
|--|---|
| 1. Function | 1 |
| 2. Installation | 1 |
| 3. Commissioning | 2 |
| 4. Technical Data | 2 |
| 5. Settings in the EIB Tool Software (ETS) | 3 |
| 6. Application overview | 3 |

3. Commissioning

After wiring the device, the assignment of the physical address and the parameterisation are carried out:

- Connect the serial interface to the bus
- Connect the bus voltage to the system
- Press the programming button in the device (red LED lights up) Load the physical address from the ETS (red LED is extinguished) Load the prepared parameterisation via the serial interface into the device
- Insert the required application module
- When the device is ready for operation, check the required function (also possible with the help of ETS)

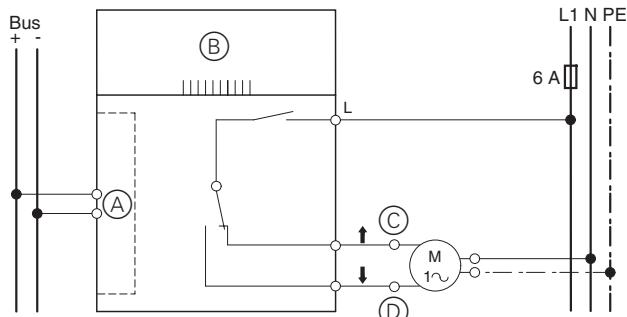


Note:

To guarantee the full functionality of the application under ETS2, it is necessary to use ETS2 from version 1.1 with Service Release A or higher. If you have any queries, please contact the Merten infoline.

4. Technical Data

| | |
|-----------------------------|---|
| External auxiliary voltage: | none |
| Power supply from the bus: | DC 24 V/max.10 mA |
| Bus coupler: | BCU system software 2.x |
| Insulation voltage: | AC 4 kV between the bus and switch outputs |
| Switch contacts: | one make contact, floating in series with a changeover contact |
| Nominal voltage: | AC 230 V, 50 to 60 Hz |
| Connected load: | |
| Ohmic load: | 6 A, $\cos = 1$ with 20,000 switching cycles |
| Inductive load: | 6 A, $\cos = 0.6$ with 20,000 switching cycles |
| Motor load: | AC 230 V, 500 W/VA with 20,000 switching cycles |
| Ambient temperature: | |
| Operation: | -5 °C to +45 °C |
| Storage: | -25 °C to +55 °C |
| Transport: | -25 °C to +70 °C |
| Environment: | The device is designed for use at a height up to 2000 m above sea level |
| Max. humidity: | 93 %, no moisture condensation |
| Operating elements: | Programming button |
| Display elements: | 1 red LED: For checking the programming |
| Connections | |
| Bus: | via two 1 mm pins for bus connecting terminal |
| Application module: | 10-pole socket connector |
| Outer conductor: | three screw terminals for cable cross-section of max. 2 x 1.5 mm or 1 x 2.5 mm |
| Mounting width: | Suitable for size 60 flush-mounted box |
| EC guidelines: | corresponds to low voltage guideline 73/23/EEC; corresponds to EMC guideline 89/336/EEC |

Connection example:

- (A) Bus coupler
- (B) 10-pole socket connector for clipping on the application module
- (C) UP
- (D) DOWN

5. Settings in the EIB Tool Software (ETS)**Selection in the product database**

Manufacturer: Merten
 Product family: 4.5 Blind actuator
 Product type: 4.5.05 Flush-mounted FM
 Program name: Blind without module 5600/1.0
 Push-button + Blind 5614/1.0
 Multi-function push-button + Blind 5615/2.0
 ARGUS 180 FM + Blind 5616/1.0
 Product name: Blind actuator, flush-mounted/230/6
 Order number: 627299

6. Application overview

The following applications can be selected:

| Application | Vers. | Function |
|------------------------------------|-------|--|
| Blind without module 5600/1.0 | 1.0 | Group addresses: Number = 40/Associations = 40, dynamic Operation of blinds and roller shutters Pause on change in direction Wind alarm |
| Push-button + Blind 5614/1.0 | 1.0 | Group addresses: Number = 40/Associations = 40, dynamic Actuator function as "Blind without module 5600/1.0" For 1- to 4-gang push-buttons Status feedback object for each push-button pair Switch (1 bit, 1 byte in %) TOGGLE (1 bit, 1 byte) Pulse edges: 2 objects (1 bit, 1 byte) Dimming (dual surface) Blinds (dual surface) Temperature (2 byte) Value (=pulse edges with 1 byte) |
| Multi-function push-button + Blind | 2.0 | Group addresses: Number = 40/Associations = 40, dynamic Functions as Push-button + Blind 5614/1.0, but in addition: IR function Status feedback object for each push-button for TOGGLE and pulse edges |
| ARGUS 180 FM + Blind 5616/1.0 | 1.0 | Group addresses: Number = 40/Associations = 40, dynamic Actuator function as "Blind without module 5600/1.0" 3 independent blocks Common trigger object 1 bit or 1 byte object per block Disable object per block |