

Application/special features/scope of delivery/accessories

Application:

- Electronic drive for indoor/outdoor venetian blinds
- Suitable for head rails as of 51 x 57 mm (height x width)

Special features:

- Drive on both sides with silent soft brake
- Limit stop: electronic
- Slow travel during rotation of slats
- Standstill detection of drive shaft
- Soft start (2 speeds: slow/fast)
- The travel directions OPEN and DOWN are permanently assigned.

Important:

Observe the direction of the movement symbol on the cable side on the drive

- Safety cut-out limit switch: Optional as a reference point for band length compensation by means of cyclical reference runs

Standard scope of delivery:

- Drive with 0.5 m connecting cable with plug STAS3, assembly kit, safety instructions and assembly instructions

Accessories:

- Deflector for connecting cable, blind clamping set, clips, damper systems, QuickSnap shaft couplings, mushroom button extension (cut-out extension)
- STAK3 couplings, control units

Safety instructions



Important safety instructions Observe all assembly instructions. Incorrect assembly can lead to serious injuries. General safety instructions for use, including installation of venetian blind drives, can be found in the "Safety instructions" leaflet supplied with each drive. Please read these assembly instructions carefully as the procedure in this manual is a prerequisite for correct use of the product. Figures included are for illustration purposes only. The illustrations may differ from your product on minor details and are provided for general information only.

elero GmbH continuously strives to improve all products. As a result, the specifications, features and technology of this product may be changed at any time. The information provided is based on current information at the time of publication. Do not perform any modifications to the device. No claims can be derived from the technical data, images and information provided in this manual.

Additional assembly instructions:

- Before installing the drive, all lines and equipment which are not required for operation must be deactivated.
- The rated torque and rated operating time must be suitable for the properties of the driven part (the blind).



Risk of injuries due to hot surfaces. The drive will heat up during operation, the drive casing can become hot. Skin burns are possible.

- Wear personal protection equipment (protective gloves).
- Venetian blind drives that are installed below 2.5 m above the floor or at another level that allows access to the drive must be installed so that direct contact of the drive or other components that heat up during operation is precluded e.g. by installing a cover.

Assembly



The drive is intended exclusively for horizontally right hand installation with its lower end position preset. Right-hand installation refers to the view from the outside of the building looking in, cable outlet and front with marking (direction of movement symbol) are located on the right.

Mounting the safety cut-out

On the underside of the limit switch housing, insert the safety cut-out into the openings and clip it in. Check the safety cut-out is working. Any malfunctions may lead to damage. If the safety cut-out is not long enough, it can be extended by 10 mm at a time with the safety cut-out extension (Accessories, article number 161014501) (attach max. 3 cut-out extensions).

Insert a small flat screwdriver into one of the notches on the orange cover and apply pressure to the blade towards the middle of the mushroom button, levering off the cover. Clip on the extension and then clip on the cover again.

Mounting the optional mushroom button extension

- Use the extended version of the mushroom button (accessories) instead of the original mushroom button. Clip this in/out to replace it.

Mounting of QuickSnap coupling

1. Attach the coupling on the drive shaft so it is diagonal. When doing so, pay attention to the position of coupling and shaft. The retaining springs must slide on the top surface.
2. Push on the coupling until the retaining spring audibly latches in the notch. Hold the drive shaft steady by pushing against it at the other end.
3. Jerk the coupling to check whether it is held securely.

Dismantling the QuickSnap coupling

- Lift the retaining spring on the coupling using a suitable screwdriver and pull off the coupling.

Installation in venetian blind head rail

Note: Select the damper system according to the specified shaft height (see Accessories).

1. Attach the damper on the drive or the head rail. Install the drive without pressure into the head rail so it is positioned correctly (mushroom button pointing down). Do not knock the drive, shaft or coupling. Do not load the drive shaft in radial direction.
2. Note: Secure the drive from turning in the head rail using the countersunk screws and the optional clips.
3. Insert the venetian blind shafts into the QuickSnap couplings so they are in the correct position and secure them to prevent them from sliding out.

After installation of the venetian blind, attach these instructions to the connecting cable for the electrician.

Electrical connection



All electrical work may only be carried out by authorised electricians according to the applicable rules and regulations of the trade association and the requirements laid out in DIN VDE 0100. Furthermore, the national legal regulations applicable in the respective country of use must be observed. Connect the electrical connection only when the power is turned off. To do so, disconnect the mains supply cable from the power supply and secure it. Persons failing to observe the requirements may be held liable for damage to property and personal injuries.

Connect according to the following scheme while observing the following notes:

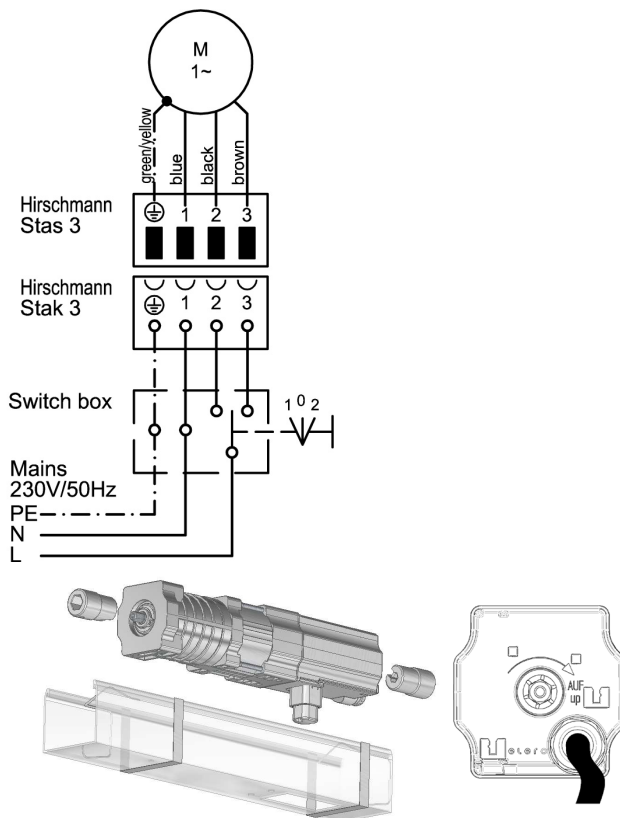
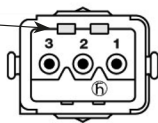
- Min. switchover delay 500 ms (voltage-free) in case of a change in direction of rotation due to locked push buttons/switches/control units.
- Parallel connection of up to 3 drives of type JA Comfort is possible.
- Please note the maximum switching capacity of the control unit.

The use of non elero controls must be checked by the customer in each individual case.

Adjusting the end positions and turning range

Plug drive cable assignment

PE	Yellow/green protective conductor
N	① Neutral conductor/blue
L ₁	② Phase/black OPEN
L ₂	③ Phase/brown DOWN



Adjusting the end positions and turning range

On initial commissioning, the drive is in delivery condition: Lower end position has been reached. Upper end position needs to be set (see **Setting upper end position**). The end positions and turning range of the slats are set with the **elero** assembly cable.

Connection for elero assembly cable

- Drive is powered via "OPEN" or "DOWN" via one of the cables a), b) or c)
 - Assembly cable 23 395.7702: Operation with coupling STAK3 (without adapter cable and connection terminal in box) and rotary switch in right position.
 - Assembly cable 23 243.0002 with connection terminal
 - Assembly cable 23 246.0001 with STAS3 coupling
- Setting the end positions and turning range: see "Setting the end positions and turning range"
- If, after travel, "OPEN" and "DOWN" are pressed simultaneously, setting the end positions starts and the transmitter operation commences. After 9 seconds or after pressing the hand-held transmitter, setting the end positions is cancelled.

Turning range of slats

- This is the range of movement in which the position of the slats is set at low speed. The standard setting is 270° based on the drive shaft.
- This can optionally be changed upon setting the lower end position, at minimum 90° (first OPEN movement plus 1 increment), maximum 360°.

Setting end positions

Generally speaking, only one end position (top or bottom) can be reset; this leads to a deletion of the previous setting.

- If both the top and the bottom end position are to be set, the procedure needs to be carried out twice accordingly.
 - On initial commissioning (lower end position reached, drive is in the setting mode for upper end position), skip point 1 below and continue at point 2 depending on the upper limit stop required later on.
- With the **elero** assembly cable connected and in middle blind position, press the buttons **OPEN** and **DOWN** simultaneously and hold them down until the drive initiates brief upward and downward motion.

Freely configuring the upper end position without influence of the mushroom button

- Press the **OPEN** button until the desired position is reached (drive starts up, stops briefly and continues).
- Corrections are possible in inching mode using the OPEN and DOWN buttons. If the DOWN button is pressed down permanently, this position will be stored.
- Press the **DOWN** button until the drive stops automatically. *The upper end position has been freely configured. Even if a mushroom button is present, no reference runs will be made.*
- Remove the assembly cable, connect the electrics, check assignment of the travel directions.

Setting upper end position on the mushroom button

- Press the **OPEN** push button until the drive is stopped by the mushroom button (drive starts up, stops briefly and continues).

Upper end position is set and is at the position of the mushroom button. No reference runs are performed.

- Remove the assembly cable, connect the electrics, check assignment of the travel directions.

Adjust the upper end position to the cover position *) (with cyclical reference runs)

*) Cover position: 3 turns of the drive shaft below the mushroom button at maximum

- Press the **OPEN** push button until the drive is stopped by the mushroom button (drive starts up, stops briefly and continues).
- Press and hold down the **OPEN** button and the **DOWN** button too until the desired position is reached. Release both buttons.

Upper end position is set and is located at the position in front of the mushroom button. Cyclical reference runs are performed.

When the cyclic reference runs are activated, the upper end position is automatically readjusted: in the 1st cycle, every 5 cycles up to the 20th cycle, every 10 cycles up to the 100th cycle, then every cycles.

- Remove the assembly cable, connect the electrics, check assignment of the travel directions.

Setting the lower end position and the turning range to standard

- Press the **DOWN** button until the desired position is reached (drive starts up, stops briefly and continues).
- Corrections are possible in inching mode using the OPEN and DOWN buttons.
- Press the **OPEN** button until the drive stops automatically. *The lower end position has been set. The turning range is set to 270° (standard).*
- Remove the assembly cable, make an electrical connection, check assignment of the travel directions.

Technical data and dimensions

Freely configuring the lower end position and the turning range (minimum 90° to maximum 360°)

2. Press the **DOWN** button until the desired position is reached (drive starts up, stops briefly and continues).
 3. Corrections are possible in inching mode using the **OPEN** and **DOWN** buttons.
 4. Press and hold down the **OPEN** button until the desired turning range is reached (slats open slightly to begin with and continue opening further in small increments after 2 seconds).
- Corrections to the turning range in down direction are not possible. Releasing the **OPEN** push button will save the turning range.

The lower end position has been set. The turning range is set.

5. Remove the assembly cable, make an electrical connection, check assignment of the travel directions.

EU Declaration of Conformity

This product conforms to basic requirements and all other pertinent provisions in EU Directives. For the full declaration of conformity, see www.elero.com/downloads-service/

Manufacturer's address	Service
elero GmbH 73278 Schlierbach GERMANY www.elero.de	If malfunctions have occurred or the device has been damaged despite proper handling, please contact your contractor or dealer.

Technical data	JA 06 com- fort	JA 09 com- fort	JA 04/35 comfort	JA 06/35 comfort	JA 04/50 comfort
Rated torque [Nm]	6	9	4	6	4
Rated speed Slow travel [1/min]	26 6	26 6	35 6	35 6	50 6
Rated voltage [V]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Rated frequency [Hz]	50	50	50	50	50
Noiseless soft brake	✓	✓	✓	✓	✓
Rated current [A]	0.50	0.68	0.50	0.68	0.68
Rated power consumption [W]	115	156	115	156	156
Protection class I	✓	✓	✓	✓	✓
Limit switch range (revolutions)	100	100	100	100	100
Protection class (IP)	54	54	54	54	54
Operating time (min S2)	5	4	5	4	4
Length "a" [mm]	139	154	139	154	154
Length "b" [mm]	243	258	243	258	258
Weight [kg]	1.60	1.95	1.60	1.95	1.95
Ambient operating temperature [°C]	-20 to 60	-20 to 60	-20 to 60	-20 to 60	-20 to 60
Standby energy efficiency [W]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Connecting cable [m] with plug STAS3 and clip	0.5	0.5	0.5	0.5	0.5
Item number	35 221.0001	35 231.0001	35 225.0001	35 235.0001	35 245.0001

