

Installation instructions for tubular motors Type 11 with plug-in cable



Keep these instructions in a safe place!

After installation of the tubular motor attach these instructions to the cable for the electrician!

Mounting instructions

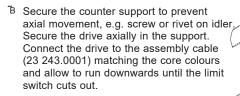
Installation in round tubes

- 1 On round tubes, cut a slot in the end of the tube on the drive side!
- 2 Push the drive (do not knock in) so that the drive lug engages in the slot.
- 3 Screw on or rivet on the coupling (adaptor).

Installation in profile tubes

A Push drive with matching drive adaptor and crown into the profile tube (do not knock in!).

Install the shaft with drive and counter support so that the limit switch adjustment mechanism is accessible. Lay the motor cable so that it is protected, do not kink!



Attach the roller shutter to the shaft!



Do not drill in the area of the tubular motor!

Warning advice and installation instructions (tubular drive, type 11)



Important safety advises!

Observe the following instructions.



Risk of injury due to electrocution.

The connections to the 230 V mains must be made by authorised specialist personnel.

Check the system (roller shutters, awnings) regularly for wear or damage.

The regulations of the local energy supply company as well as the regulations for wet and damp rooms according to VDE 0100 must be followed when making the connections.

Only use unmodified original elero electrical parts.

Keep people away from the system until it is stationary.

When working on the system (servicing, cleaning windows etc.), always separate it from the mains supply.



Installation

Observe the following installation instructions!

- The drive must be fixed in such a way that it is not a danger to personnel.
- Before installing the drive, all lines and equipment, which are not required for operation, must be removed from the site.
- Due to feedback voltage from the capacitor motors must not be connected in parallel!
- During installation, during operation and when work is carried out on the system, the option to separate all three poles from the mains must always exist (Hirschmann connector and Hirschmann coupling or a two-pole switch with minimum 3 mm contact gap or all-pole main switch).
- Only use interlocked venetian blind switches or push-buttons.
- When reversing direction of travel the drive must first be dead for at least 0.5 seconds.
- If the drive is controlled by a switch with OFF pre-setting (dead man's button), the pushbutton must be fitted at a height of more than 1.50 m and separated from the moving parts. The travel range of the systems must always be visible during operation.
- Moving parts in a drive, which are below 2,5 m, must be guarded.
- For drives supplied without a driven part the design torque and the design operating time must agree with the properties of the driven parts.

Please note the technical data on the type plate.

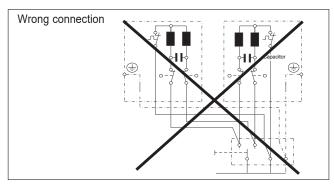
- Please note that with this drive (type 11 tubular motors) the smallest internal tube diameter corresponds with 60 mm.
- The drive must be installed so that it cannot get wet
- Do not install drives in surroundings which are at risk of explosion or in mobile appliances (e.g. motor vehicles).
- In the case of awnings it is essential to ensure that a horizontal safety distance of >0.4 m is left between the fully-unrolled awning and a fixed object.
- Keep children away from the (remote) control unit.

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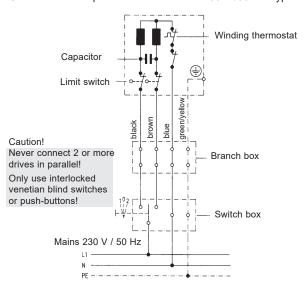


Flectrical connection



Caution: Due to feedback voltage from the capacitor motors must not be connected in parallel!

Connection example for a tubular motor 230V~/50 Hz Type 11



Important: When reversing direction of travel the drive must first be dead for at least 0.5 seconds.

Remove of the motor cable plug



Risk of injury due to electrocution.

When the motor cable plug is removed the supply line must be volt free.



Delivery condition







Remove the motor cable plug

Switch off voltage supply.

- 1. Press locking mechanism on the motor cable plug towards the cable using a screwdriver.
- 2. Pull out the plug.

Insert the motor cable plug

3. Switch off voltage supply. Insert plug until the locking mechanism engages.

Limit switch adjustment

The limit switches are set at the factory to 8 revolutions of the shaft. The maximum limit switch range is 21 revolutions of the shaft for type 11.

Adjustment of the "Up" direction

- 1. Attach the roller shutter to the shaft
- 2. Allow the drive to run in the "up" direction. At the same time, turn limit switch adjusting screw "up" in ,-(minus) direction until the drive stops.
- 3. Then hold the "up" button on the assembly cable depressed. At the same time, turn limit switch adjusting screw "up" in ,+ (plus) direction until the desired end position is reached.
- If the end position is not reached, lower the roller shutter again and repeat the adjustment.

Adjustment of the "Down" direction

- 1. Allow the drive to run in the "down" direction. At the same time, turn limit switch adjusting screw "down" in ,-' (minus) direction until the drive stops.
- 2. Then hold the "down" button on the assembly cable depressed. At the same time, turn limit switch adjusting screw "down" in ,+ (plus) direction until the desired end position is reached.

Checking the limit positions

1. Allow the drive to run alternately in both directions until the limit switches cut out.

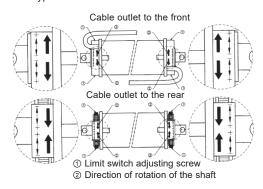
Carry out a fine adjustment of the setting, if necessary.

One turn of the adjusting screw corresponds to an approx. 90° turn of the shaft. The drive has a running time of approx. 6 minutes before the thermal protection cuts out. The drive will once again be ready for operation after at minimum of 15 minutes

Adjusting tool Gear rack



For drives Type 11 with knurled screws



Identify the limit switch adjusting screws from the direction of travel arrows. Turn limit switch adjusting screws as follows:

minus (-) = shorter travel (+) = longer travel plus

Note: The limit switches will only work after the motor has been installed in the shaft.