



Non-compliance with the specification might cause risk for life or health and can determine proper work of the roller shutter. We strongly recommend to comply with the specification. Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence (SEP - Association of Polish Electrical Engineers) or equal license.

1. General information



KM type motors are designed for automation roller garage doors. Motors head is equipped with emergency opening system that allows for gate door or roller shutter to be opened or closed in case of power outage. Can be controlled by a wall switch or through additional radio receiver. Motors are equipped with mechanically set limit positions allowing roller shutter to stop on desired level. The speed of 26 rpm allows for quick opening or closing of the gate.

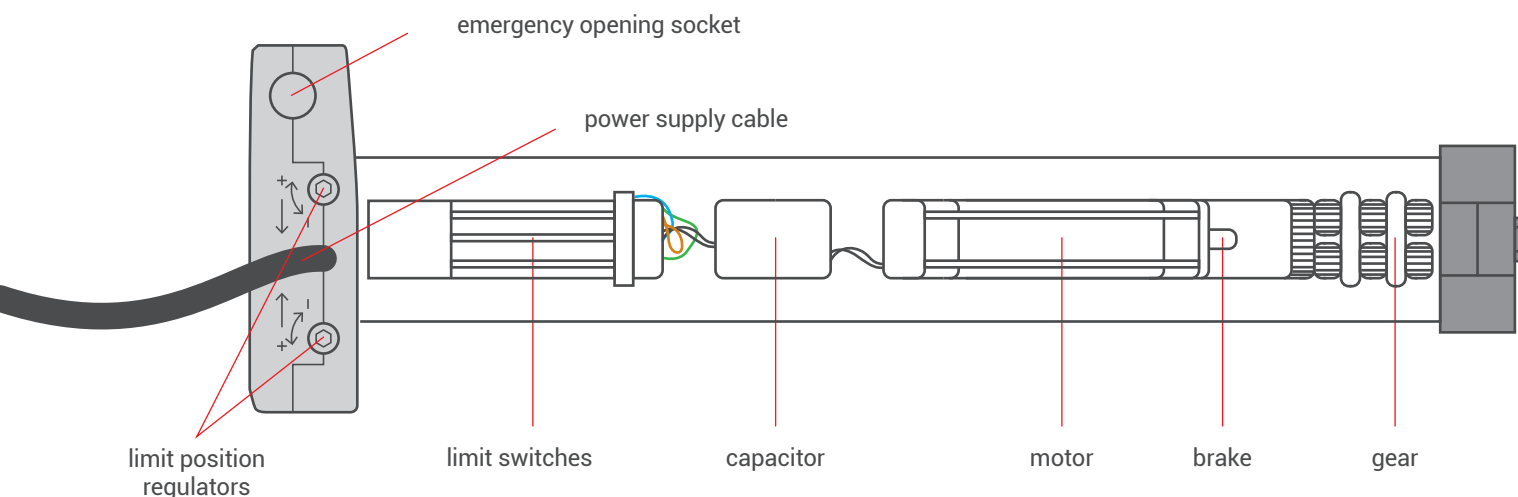
Max time of continuous work:
4 min.

Power supply:
230 V / 50 Hz

Operating temperature:
from -25°C to 50°C

Protection degree:
IP 44

Tubular motor 59 KM



Maximal time of continuous work is 4 minutes. After that time thermal protection will be activated preventing motor from overheating. After that motor will be disabled for about 20 minutes until it cools down.

2. Safety measures



Before installing or using motor please read the following instruction. Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence (SEP - Association of Polish Electrical Engineers) or equal license. The installer must comply with the standards and regulations in force in the country where the appliance will be installed and provide information to users about the conditions and maintenance of the device. Failure to follow these instructions can present risk to life and health, or invalid functioning of the roller shutter. This also results in the loss of warranty rights.



Motors torque parameter should be adequate to the weight of the roller shutter curtain.



Wiring should be mounted in a way preventing water from entering the tubular motor.



Electrical supply needs to be disconnected before conducting any maintenance, cleaning and/or repair work.



All contact of the motor with any liquids should be reduced to minimum.



Electrical system control should be performed regularly to detect any signs of use or damage of the motor.



No tools should be used when placing motor in the tube.



Motor and its control system should be kept out of reach of children.



During the adapter montage special attention must be paid not to damage the motor.



It is not allowed to control directly one motor with a few switches.



Controller should be placed not lower than 140 cm from the floor level and in distance allowing to observe the movement of the roller shutter.

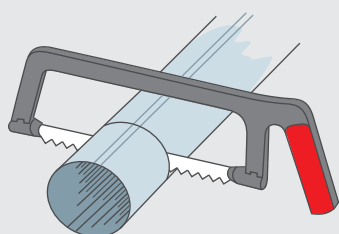


Direct control of a more than one motor by a single switch is impossible.

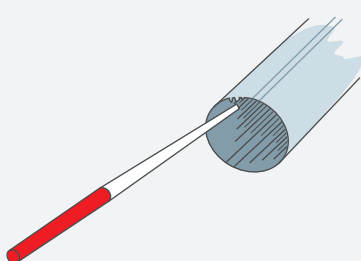
3. Placing motor in the tube



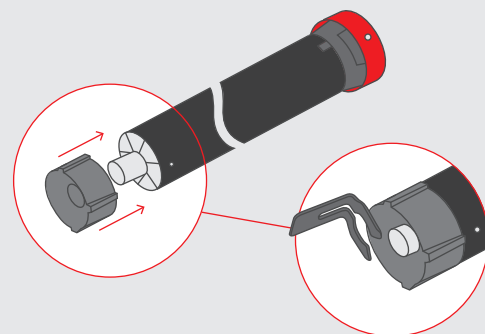
Motor should be mounted in places protected from unfavourable weather conditions.



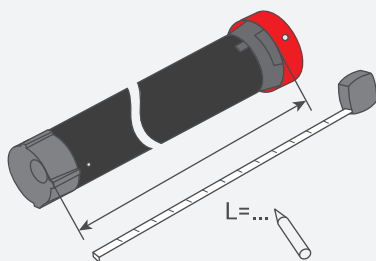
1. Cut the tube to the proper length.



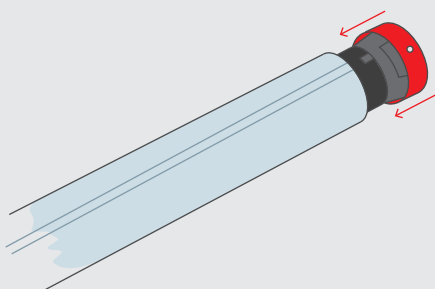
2. Deburr the edges and remove the metal residue.



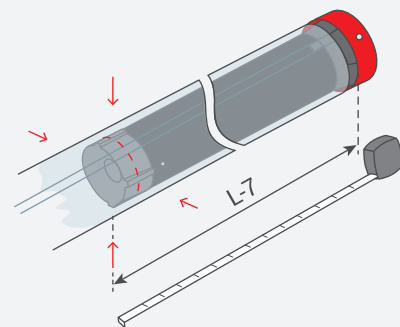
3. Place the adaptation on the motor.



4. Measure the distance (L) between the inner edge of motors head and the end of the motors adaptor.

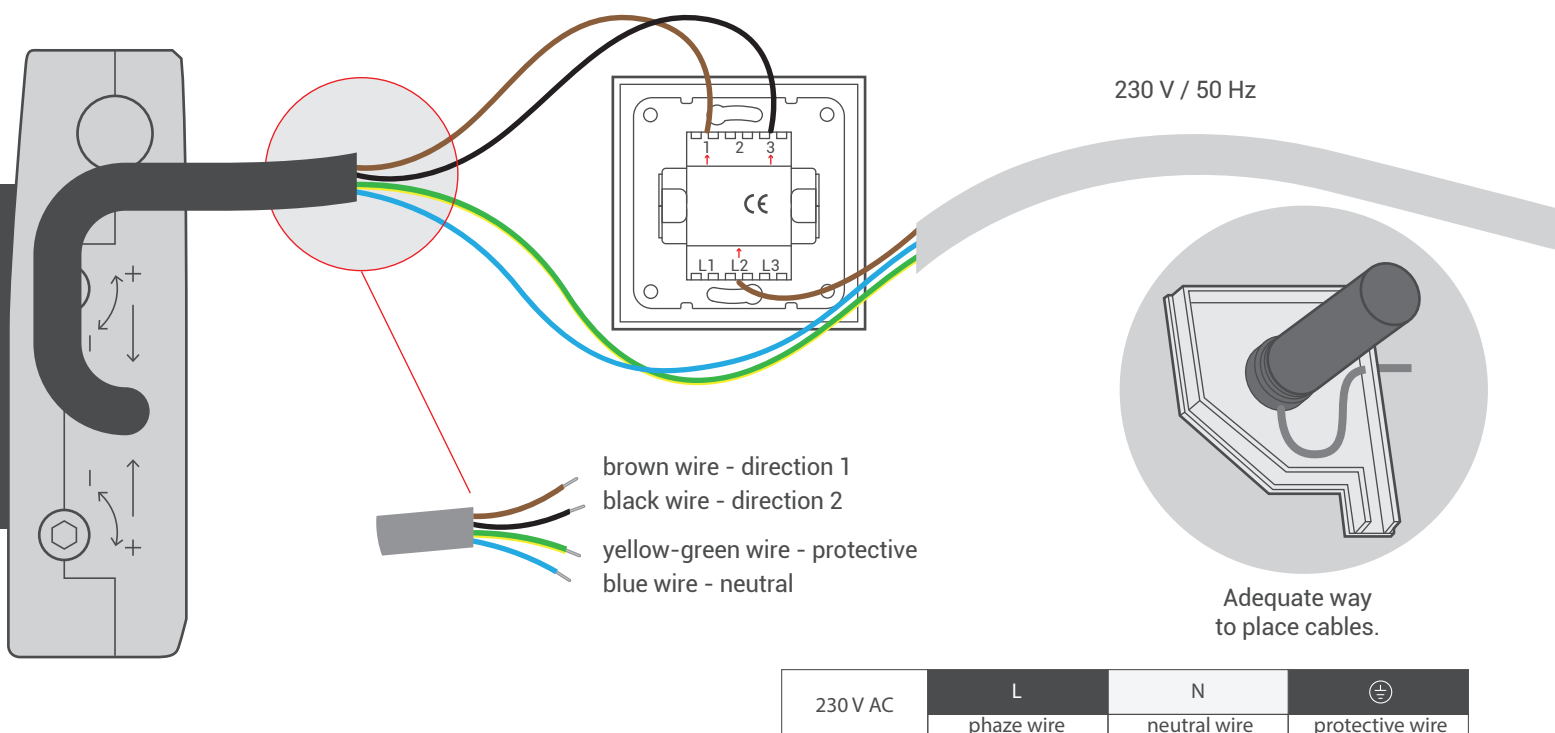


5. Insert the motor into the tube up to the point of connection between the edge of the tube and the inner edge of the motors head.



6. Secure the tube to the coupling part of the adaptation using 4 screws or rivets, placed at L-7 mm distance from the inner edge of the motors head.

4. Connection

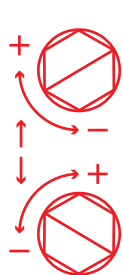


Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence (SEP - Association of Polish Electrical Engineers) or equal license. Device is designed to operate in places shielded from unfavourable weather conditions. Motor should be installed in accordance with all provisions of regional law and professional standards. All cables connecting power receiver with electric source should be protected from overload and short-circuits effects with devices automatically disconnecting power. Device should be powered with a separate source and protected only with a fast-blow fuse (never slow-blow fuse). Creating electrical system using inadequate fuse may result in losing rights under the provisions of warranty. When connecting device to power source with cables with adequate cross-section should be used. Long-lasting output load capacity table should be the ground for choosing adequate cables.

5. Setting limit positions



Limit positions need to be set manually using supplied regulator.



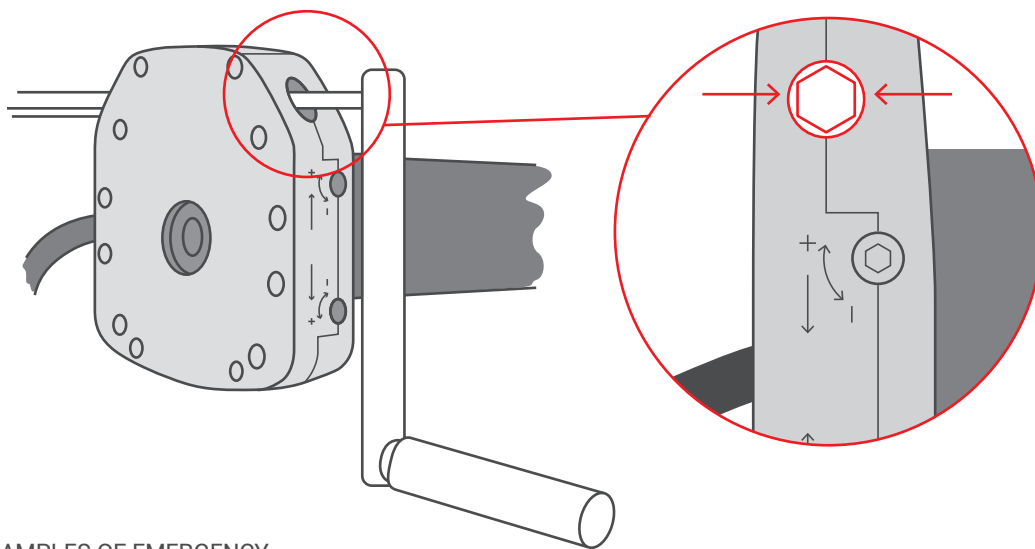
- Decrease of the range
- + Increase of the range
- ↑ ↓ Motors spin direction
- ↪ Direction of limit position switches regulation

For setting bottom or top limit position roller shutter needs to be started (opening or closing direction) until it stops at the factory set height. For increasing the range of limit position turn the rotary regulator in the '+' direction. Analogically, for decreasing the range, turn in the '-' direction.

6. Emergency opening mechanism



1. The emergency opening should only be used in the event of a power failure. 7 mm hexagonal pivot is needed to operate the emergency opening mechanism correctly.
2. To close or open gate using emergency opening mechanism crank should be placed in the emergency opening socket. Turning the crank will cause the gate to open or close.



EXAMPLES OF EMERGENCY OPENING SOLUTIONS:

1. Hexagonal pivot with socket for M type motors.
2. Bending connector for M type motors
3. Steel rod with crank
4. Cardan joint 45° with hexagonal pivot
5. Connection end for rods
6. Eye for Cardan joint
7. Steel rod with crank
8. Hexagonal pivot with eye
9. Galvanized hook for steel rod
10. Pivot tip for Cardan articulation

