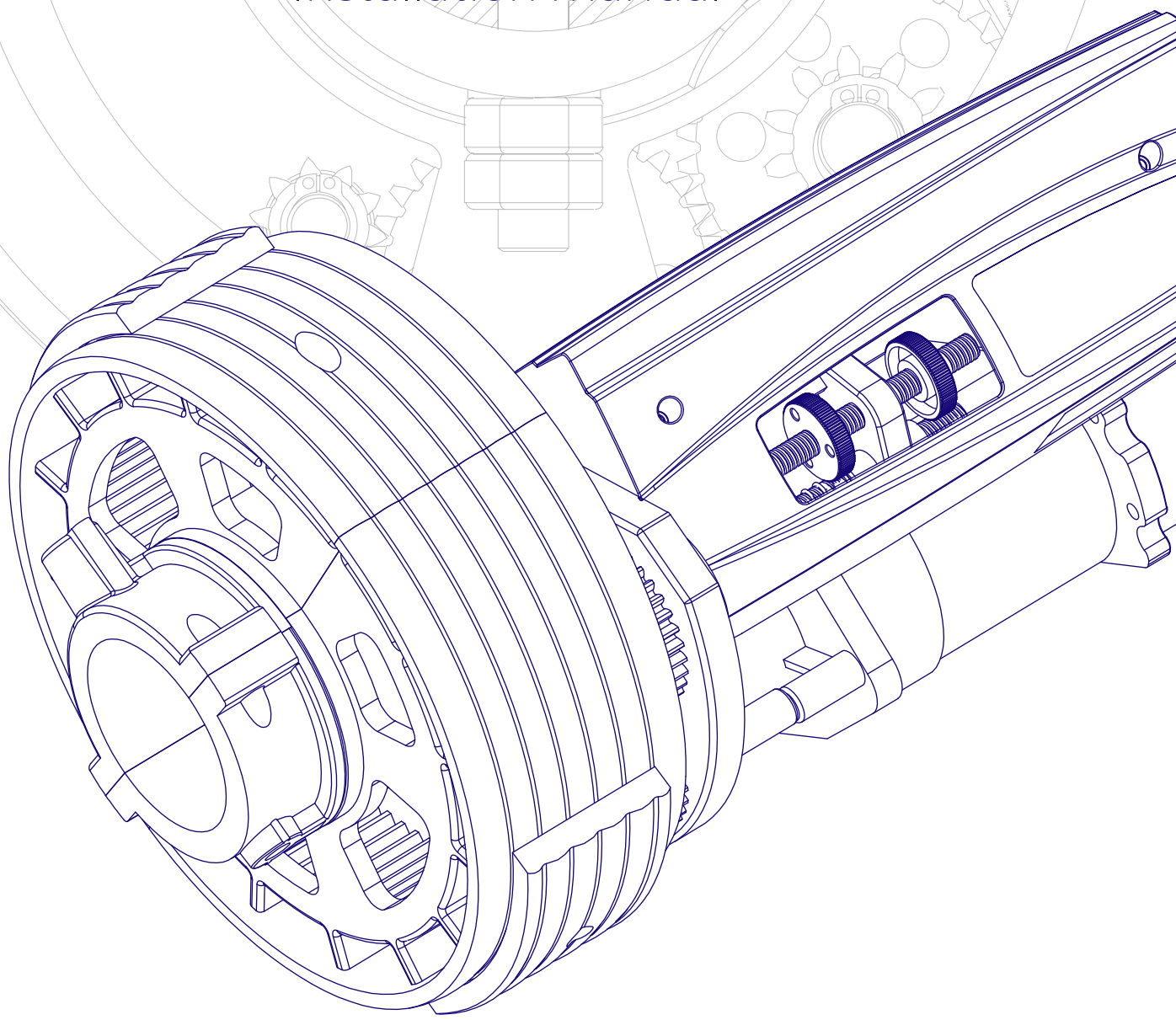
ROBUST I

Central Gearmotors for Rolling Shutters
Installation manual



CASCAN
Rolling Doors

IMPORTANT SAFETY INSTRUCTIONS

WARNING:
Follow these personal safety instructions very carefully. Incorrect installation may create serious risks.

- Read the instructions carefully before starting to install. Save this manual for future reference.
- This product was designed and built strictly for the use indicated in this documentation.
- The manufacturer declines all liability in the event of incorrect installation or improper use of the product.
- Do not install the gearmotor in presence of fumes or inflammable gas.
- The mechanical parts must conform to the provisions of standard EN 12604 and EN 12605.
- Manufacturer is not responsible for failure to observe good technique in the construction of the closing elements to be motorised, or for any deformation that may occur during use.
- The installation must conform to standards EN 12453 and EN 12445.
- Before start any job on the system, cut out electrical power.
- The mains power supply of the automated system must be fitted with an all-pole switch with contact opening distance of 3mm. Use of a 6 A thermal breaker with all-pole circuit break is recommended.
- Make sure that the earth system is perfectly constructed.
- The safety devices (photocells, etc.) protect any danger areas against mechanical movement risks, such as crushing, dragging, and shearing.
- Use of at least one indicator-light is recommended for every system, as well as a warning sign, in addition to the safety devices.
- Do not command more than one gearmotor with each button.
- For maintenance, exclusively use original parts.
- Do not in any way modify the components of the automated system.
- The installer shall supply all information concerning manual operation of the system in case of an emergency, and shall hand over to the user the warning handbook supplied with the product.
- Do not allow children or adults to stay near the product while it is operating.
- Keep radiocontrols or other pulse generators away from children, to prevent the automated system from being activated involuntarily.
- The user must not attempt any kind of repair or direct action whatever and contact qualified personnel only.
- Transit is permitted only when the automated system is idle.
- Maintenance: check at least every 6 months the efficiency of the system.
- Anything not expressly specified in these instructions is not permitted.

INSTALLATION INSTRUCTIONS

1. Close the rolling shutter.

2. Effect on the tube of the shutter 3 perforations as shown in figure 1.

3. Remove the M10 screw (C) from the crown of the gearmotor (see figure 2).

4. Remove the two semi-crown (D) unscrewing the two M8 screws (E) as shown in figure 2.

5. Carefully remove the plastic band with rolls (F) avoiding heavy folds that would cause the spillage of the rolls.

6. Separate the two elements of the gearmotor (G) unscrewing the four M8 screws (H).

7. In case the diameter of the tube is inferior to 60mm, use the reductions Ø33 / Ø42 / Ø48 (I) positioning them on the 10mm hole drilled previously (see figure 1).

8. Assemble on the tube of the shutter the two elements of the gearmotor (G) using the four M8 screws (H) removed before.

9. Screw the M10 screw (A) without hexagon nut, screwing it inside the hole 10mm (see figure 1).

10. Tighten the M10 screw with nut (B) so as to block the gearmotor on the shaft and tighten said nut.

11. Install the plastic band with rolls (F) in its appropriate place.

12. Install the two semi-crown (D) fixing them with the two M8 screws (E). In presence of spring boxes diameter 220 mm use the adapter (K) (see figure 2).

13. Make 12 mm hole in the last element of the shutter, in correspondence of the filleted hole M10 existing on the crown motor.

14. Place the last element of the shutter on the motor and secure it through the screw M10 (C) with washer (see figure 1).

15. Make the electrical connections as shown in figure 3 passing the 4x1mm cable supplied, inside the shutter shaft avoiding any contact with the rotating parts (see figure 1). In presence of motor with electrobrake, insert the sheath of the brake inside the other hole Ø12.

16. Connect the power supply cable to the limit switch respecting the right direction (see figure 4).

17. Close the limit switch through the plastic cover (Z) and then tighten with the two screws checking the correct disposition of the cables (see figure 4).

18. After having installed the mechanical parts and electrical connections, proceed to the regulation of the limit switches as shown in figure 5.

19. Rotate the plastic washer (Q1) by hand until you hear the click of the microswitch 1 (down regulation completed).

20. Rotate the other plastic washer (Q2) towards the microswitch 2 (up). Give tension to the motor through an electric command and verify if the shutter, climbing, stop in desired point. Adjustments of the position can be effected acting always on the same plastic washer and operand through electric command.

21. Should the shutter need to be installed contrary to the description on figure 1, the steps described above should be carried out to the contrary as microswitch 2 will stop the descent and microswitch 1 will stop the opening.

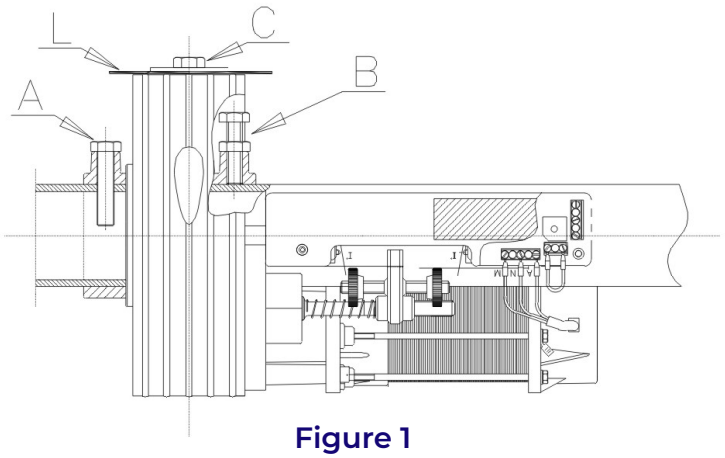


Figure 1

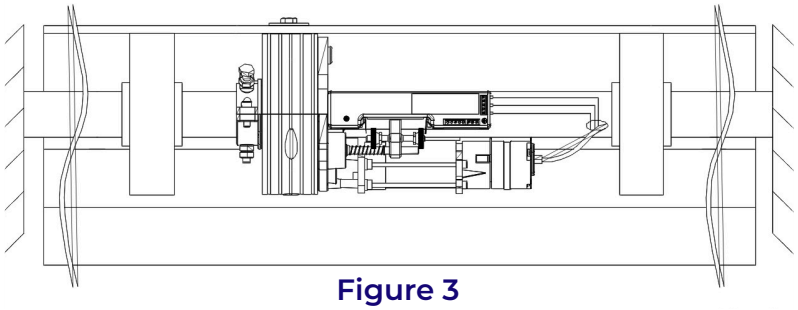


Figure 3

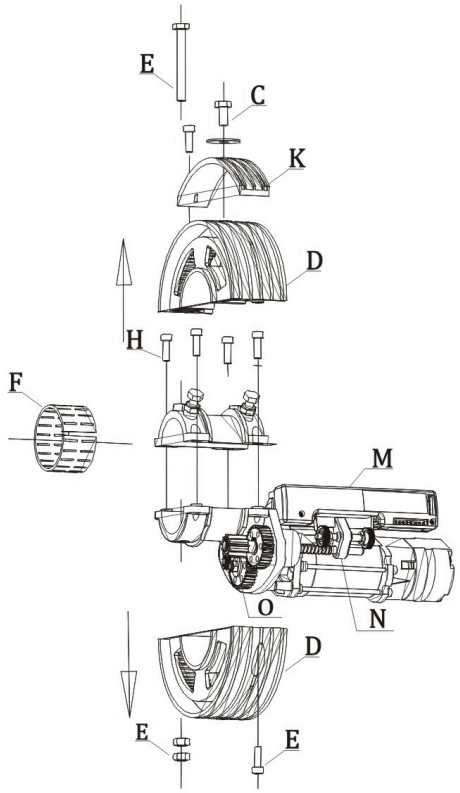


Figure 2

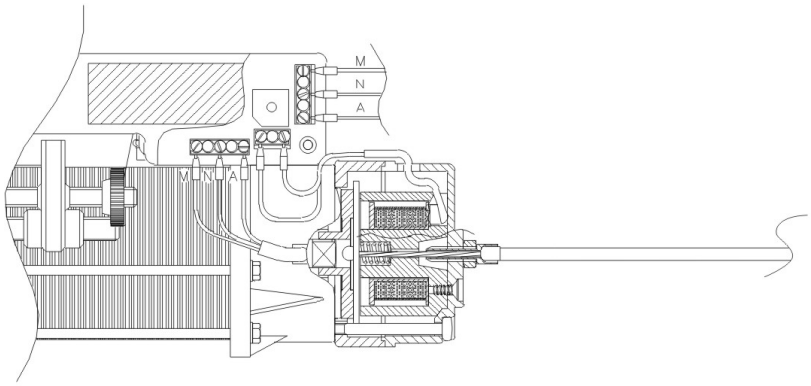


Figure 4

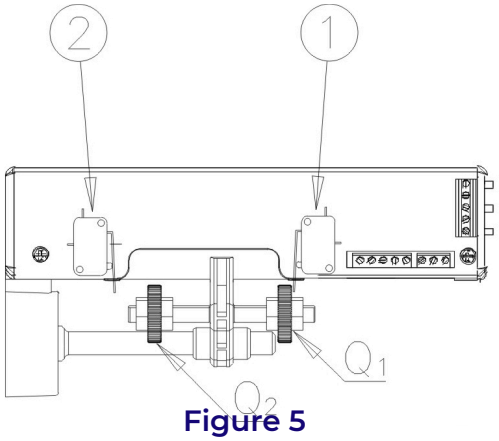


Figure 5

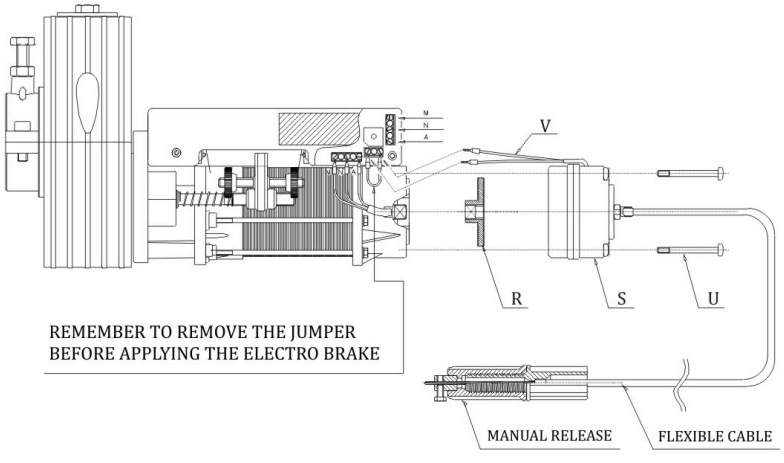


Figure 6

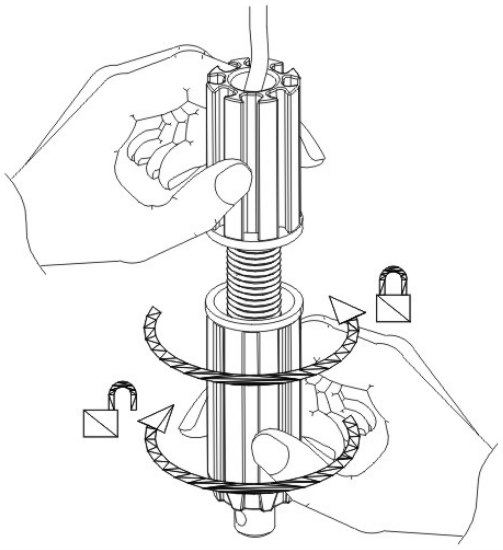


Figure 7

INSTALLATION OF THE ELECTROBRAKE

1. Insert the brake (R) on the back of the electrical motor (see figure 6).

2. Fixing the electrobrake (S) to the motor through the screws M5x50 (U).

3. Remove the bridge (T) from the limit switch.
Do not damage the bridge pulling on the wire and keep it for future use

4. Connect the electric cables (V) of the brake to the terminal of the limit switch.

CENTRAL MOTOR WITH SAFETY DEVICE

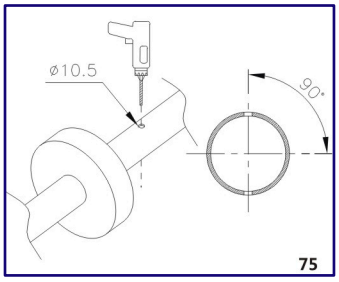
Central motor with safety device carried out to the stop the free fall of roller shutters and at the same time, in Plus version, to interrupt the motoreductor's feeding.

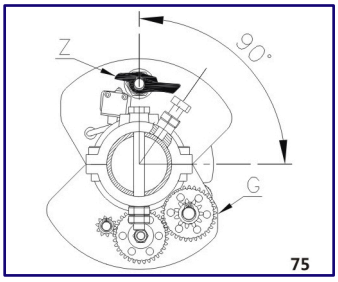
1. Effect on the tube of the shutter a passing perforation Ø10 perpendicular to the axis. (see figure 9).

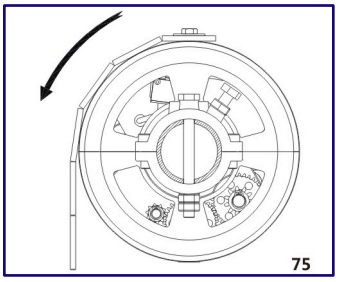
2. After assembled the two elements of the gearmotor (G), check that the pawl (Z) is in the highest position perpendicular to the rolling shutter axis (see figure 10).

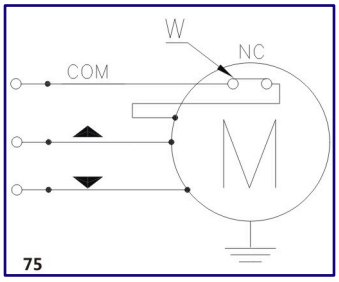
3. The downward run of the roller shutter shall be consistent with the downward run of the safety brake. Place the gear motor as shown in figure 11.

4. For Plus Versions, connect the micro switch's cable (W) in series to the feeding cable (common) of the gearmotor (see figure 12).









Model	Torque (Nm)	R.P.M	Limit Switch (m)	Cut Out Temperature (min)	Power Absorbed (w)	Consumption (Kg)	Lifting (Kg)	Tuberolling (mm)	Pulley (mm)
Robust I	210	9.5	6	4	650	2.85	175	ø76	ø240
Robust I	230	9.5	6	4	715	3.12	190	ø76	ø240

CASCAN Rolling Doors

Ave. Albert thomas, 260, Santo Domingo,
Distrito Nacional, República Dominicana 10406

Tel: (809) 541 - 2117
Cel: (829) 255 - 4444

Tienda web:
industriascascan.com