Manual Instruction of 16039-B

Specifications

Receiver

Input Voltage: AC110V-250V 50HZ/60HZ Motor Voltage: AC110V-250V 50HZ/60HZ

Protective Tube: 250V 10A Output Power: 1000W Temperature: -20℃-65℃

Remote

Working Voltage: Black Type(with 4 keys): 12V (23A battery*1)

Working Current: ≤15mA Working Frequency: 433MHz

Temperature: -20°C-65°C

Remote Distance: ≤50m Remote storage capacity:50 PCS. If

more than 50 pcs, the first study remotes will be deleted.



Key function description:

STUDY-Remote control learning key:

- 1. Increase the remote control
- 2. Delete all the remote control keys

Dial switch instruction

OFF -- ON

- 1, Impulse Open -- Deadman open
- 2, Impulse Close -- Deadman close
- 3, Motor direction control Open, close -- Close, open
- 4. One-key/multi-key control Multi-key conrol -- One-key control

Add/delete remote

1. Add remote: Push "study" key and loose it until you hear a sound, now it is study mode. Push one key on new remote three times continuously, when you hear a sound, then study successfully. If fail, please follow these steps and study again. You need to finish the study within 8s, if more than 8s, the study mode will be off automatically (you will hear the sound twice)

(Note: For four keys remote, push key 2 and key 3 together, it will be distance studying guidance mode. If this four keys remote has studied successfully, you can enter/exit the distance studying mode by push this key).

- 2. Delete remote: Keep pushing "study" key, don' t loose it when you hear a sound, and loose it until you hear the sound sounds for a while, it means delete all remotes.
- 3. Remote storage capacity: 50pcs. If more than 50pcs, the first study remotes will be deleted.

One key/multi-key control

1. For one key control, only the first studied key can control. If change to another key, you need to study again, push "study" key.

2. One key control is same as line control, open, stop, close, stop.

3. For inching/linkage control, pushing the key is open/close, loose it is stop.

Remote instruction

Key 1: Open

Key 2: Close

Key 3: Stop

Key 4: Lock

Push key 2 and key 3 together: Enter/exit distance study mode.

Note: For one key mode, distance study can not be entered. If it has been studied before, then it can still work.

Security description:

1. It has the function of Photocell. When the door is blocked, it will automatically rebound 3S.

2. The normally closed signal is normally used as a trigger signal. Once the line is disconnected, it can be immediately known and checked.

3. The boxed button can be used as an emergency stop button and can be stopped at work.

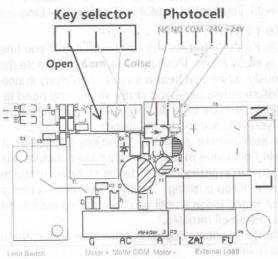
4. The use of potting transformer is safer than ordinary transformer.

5. Boxed fuse protection line

6. Acousto-optic reminding

7. In remote control learning, the same button should be pressed 3 times in a short time to prevent crosstalk.

Key selector and Photocell wiring diagram:



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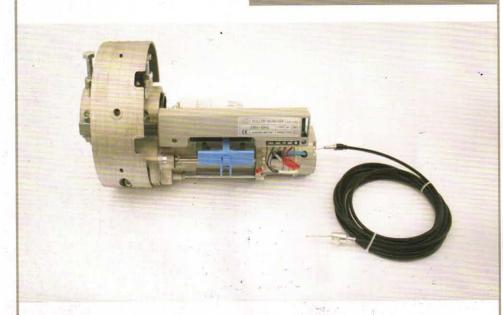
SINCE 1984 -

MOTORIDUTTORI PER SERRANDE 230V 230V GEARED MOTORS FOR ROLLING SHUTTERS





ROLLER180/60CEF ROLLER360/60CEF ROLLER360/762MCEF



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ENGLISH Standard installation / technical data Page 2 Impianto tipo / dati tecnici Pagine 8 Page Pagina Important remarks Avvertenze importanti Page 9 Pagina Preliminary checks Verifiche preliminari Page -9 Installation instructions Pagine Istruzioni per l'installazione Pagina Breaking down the geared motor Page 9 Scomposizione del motoriduttore 10 Geared motor installation part I Page Pagina Installazione motoriduttore parte I 5 Manual release cable installation 10 Installazione blocco a cordino Pagina Page 5 Geared motor installation part II Page 10 Pagina Installazione motoriduttore parte II Page 11 Collegamento elettrico Pagina Electrical connection Page 12 Fissagio motoriduttore alla serranda Pagina Fastening the motor to the rolling shutter Page 12 Pagina Adjusting the travel limits Regolazione finecorse 12 7 Maintenance Page Manutenzione Pagina

ATTENTION! IMPORTANT SAFETY INSTRUCTIONS

CEEDING WITH THE INSTALLATION, PAY PARTICULAR ATTENTION TO ALL THE PARAGRAPHS MARKED WITH THE SYMBOL \triangle IN THIS ORIGINAL INSTRUCTION MANUAL. NOT READING THESE IMPORTANT INSTRUCTIONS COULD COMPROMISE THE CORRECT WORK-FUTURE USE. THE ORIGINAL INSTRUCTIONS AND RELATIVE UPDATES ARE AVAILABLE IN DIGITAL FORMAT FROM THE WEBSITE. ING ORDER OF THE SYSTEM AND CREATE DANGER SITUATIONS FOR THE USERS OF THE SYSTEM. SAVE THESE INSTRUCTIONS FOR READING THESE INSTRUCTIONS IS IMPORTANT FOR PERSONAL SAFETY, READ THE FOLLOWING REMARKS CAREFULLY BEFORE PRO-

Illicitly disposing of this product by the owner is punishable by law and disposal contributes to avoiding negative effects on the ambient and Suitable differential collection, environmental friendly treatment and will be dealt with according to the laws and standards of the individual consequently health as well as favouring the recycling of materials. goods or to send it back to the manufacturer if the intention is expired it must be disposed of separately from other rubbish. suitable differential collection site for electronic and electrical The user is therefore obliged to either take the product to a to replace it with a new equivalent version of the same product. This symbol indicates that once the products life-span has

- These instructions are aimed at professionally qualified All materials used must be approved and must suit the "Installers of electrical equipment" and must respect the local standards and regulations in force
- All maintenance operations must be carried out by professionally qualified technicians. Before carrying out any cleaning or at the mains and that any batteries have been disconnected. maintenance operations make sure the power is disconnected environment in which the installation is situated.
- which it has been made: The automation of Rolling Shutters. This appliance must be used exclusively for the purpose for
- aspect to the safety standards in force. Any non authorised dangerous modifications are to be considered improper and therefore This product and all its relative components conforms in every

when the earthing circuit is not efficient the local standards and regulations in force and in particular the use of an electrical installation which does not conform to The manufacturer accepts no liability for situations arising from

GENERAL SAFETY INSTRUCTIONS

- Before installing make sure that the guided parts are in good condition, correctly balanced and that they open and close
- Avoid becoming trapped between the moving parts and the fixed parts during the opening and closing movements.
- It is the responsibility of the installer to make sure that the conformity with the international standard 60245 IEC 57.
- following public safety conditions are satisfied:
- ۳ The controls (including emergency commands) must be shutter. Controls installed externally must be protected by a distance of 1.83 m (6 ft) from any moving part of the rolling safety device inhibiting unauthorised use. installed at a height between 1,5 and 1,8 m and at a minimum
- 2 At least two warning signs (similar to the example on the system of automatic operation. One inside the installation. These signs must be indelible the property and one on the public side of easily seen by the public, in the area of the right) should be placed, where they can be and not hidden by any objects (such as tree
- 3 by children aged from 8 years and above and persons with remote controls away from them. This appliance can be used Do not allow children to play with fixed controls and keep branches, decorative fencing etc.) reduced physical, sensory or mental capabilities or lack of

or instruction concerning use of the appliance in a safe way and understand the hazards involved. experience and knowledge if they have been given supervision

Attention! Only for EU customers - WEEE marking

4 Ahead of the automation a means of disconnection from the supply is completely cut off under the conditions of a category on the contacts of all the poles and ensures that the power power supply must be installed which has an opening distance III overvoltage situation.

- 5 A correct earth connection is fundamental in order to guarantee the electrical safety of the machine.
- 6) Before installing make sure that the ambient temperature falls within the range indicated on the appliance's data plate.
- ح If you have any questions about the safety of the boom operating system, do not install the operator. Contact your dealer
- In order to respect the requirements of the standard EN 12453 is set to SNS1. (dynamic impact force limitation) make sure the current sensor

If you can't respect the limits, increase the size high) this is obligatory in order to conform to the standard. Attention! If you use a rubber safety edge (at least 3 cm safety edge or change the type of edge used

You are still obliged to check the impact force using the relative

Frequently examine the installation for imbalance where applicable specialised personnel using original spare parts Eventual repair work or maintenance must be carried out by and signs of wear or damage to cables, springs and mounting.

adjusted according to the model (see technical data on page 12). The appliance is not suitable for continuous operation and must be

TECHNICAL DESCRIPTION

geared motor and crown wheel and in-built travel limits Automation for rolling grills and shutters with a cast aluminium

- Crown wheel in cast aluminium
- Steel gears and roller bearings
- Motor drive shaft mounted on double roller bearings
- The motor's power cable must be made of polychloroprene in Electric brake and manual release cord
- Maximum rolling shutter height 6m.

MODELS

shutter with a 60mm or 48mm drive shaft diameter and a crown lifting power of 170kg. This model may fitted to all types of rolling ROLLER 180/60 CEF: 230V geared motor permitting a maximum wheel diameter of 200mm or 220mm.

PRELIMINARY CHECKS

structure which is to be automated is in good working order and Before starting with the installation of the system check that the respects the local standards and regulations in force

time and are suitable for temperatures of -20 to +70°C then: which maintain unaltered friction characteristics over a period of and grease all the moving parts (pins, bearings etc.) using lubricants To this end make sure that the rolling guides "1" and "2" slide freely worse by placing more stress on weakened or damaged areas. . problems will not solve those problems and may even make them Automating an existing system which has sliding or balancing

- position a clean workbench near to the rolling shutter to be
- manually move the rolling shutter to the completely closed position (lowered rolling shutter) as shown in figure 1.



Equipment required for the installation



Equipment:

10,5 mm drill bit

12 mm drill bit

6 mm Allen key

17 mm spanner

16 mm spanner

0 type 2 small flat-nosed screwdriver 10 mm spanner

11 - type 3 medium Phillips screwdriver

wire strippers

14 - scissors

INSTALLATION INSTRUCTIONS



15 - centre of the rolling shutter support shaft:

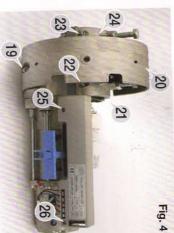
16 - Ø10,5 mm motor fastening hole;

17 - Ø12 mm power cable passing hole;

18 - Ø12 mm manual release cord passing hole

 Drill a 10,5 mm diameter hole "16" vertically under the shutter support tube at 5,5 cm from the centre of the shutter axis "15".

 Drill a 12 mm diameter hole "17" starting vertically under the of the shutter axis "15. shutter support shaft and exiting at "18" at 50 cm from the centre



Breaking down the geared motor (fig. 4/5)

Remove the geared motor from its packaging and place it on the work bench.

 Carefully remove the external crown "27", making sure you don't Remove the two screws crown holding screws "19" and "20" from the geared motor using the 6 mm Allen key "6".

Separate the two parts of the geared motor (upper body "29" from the lower body "30") by removing the screws "21, 22, 23 damage the rubber needle bearing "28" 24" using the 6 mm Allen key "6"

Unscrew the two screws "25" and "26" and take off the termina boards cover "31".

Remove the hand-grip and M10 screws + washer from the

At this point the components on the work bench should look something like those indicated in figure 5.

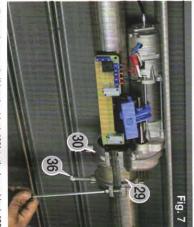


- 27 crown wheel:
- 28 rubber needle bearing; 29 - upper half bearing block;
- 8 upper half bearing block;
- 31 terminal board cover;
- 32 manual release hand-grip;
- 33 Ø10 mm motor rolling shutter fastening screw and washer
- 34 geared motor unit.

Geared motor installation part



Position the geared motor "34" over rolling shutter support shaft 5,5 cm from the centre of the shutter axis "15. and align the hole "35" with the hole "16" previously drilled at



- Fasten the upper half-bearing block "29" to the lower block "30" using the 6 mm Allen key. using the four M8 "21, 22, 23, 24" screws previously removed
- Fasten the M10 screw "36" using the spanner "7" and make sure hole "16" (drilled in fig. 3). it enters into the rolling shutter support shaft through the 10,5 mm

MANUAL RELEASE CABLE INSTALLATION



Pass the release cable "37" through the hole "18" and thread it through the tube until it exits to the left or right of the shutter support shaft. Cut the electric brake release cable to the correct length with the cable cutter "12" depending on the final position of the release hand grip "32".



- Unscrew the nut "38" using the 10 mm spanner "9" and slide off the screw nipple "39" from the release cable "40"
- Strip the end of the cable "40", remove the end cap "41" and fit it to the end of the cable just cut.
- Pass the steel cable through the hand grip "32", pull the cable core "40" down with the nut "39" using the pliers "12", thread it into the screw nipple "38" and fasten
- Tighten the release cable adjustment nut "42" (fig. 10) on the motor "34"
- Unscrew the hand grip "32" (fig. 9) to release the motor.

Geared motor installation part II



Insert the rubber needle bearing "28" into its housing in the crown wheel "27". Fit the first half crown wheel "27" to the geared motor and rotate it until it reaches position "43" as shown in fig. 11.





Fig. 15

Fit the second half crown wheel "27" and fasten it into position with the screw "19" using the 6 mm Allen key "9".



Rotate the crown wheel "27" through 180° to gain access to the on page 7 and you have unscrewed the hand grip "22" as shown in you have followed the paragraph "Manual release cable installation" second fastening hole. If the crown wheel doesn't rotate, make sure



CEF

closing button opening button; output for one 230V 650W motor for the model ROLLER 180/60 The minimum requirements for the electronic control unit are:

Allen key "9"

ELECTRICAL CONNECTION

Important remarks

- Before connecting the appliance make sure that the voltage and supply. frequency rated on the data plate conform to those of the mains
- The power cable must be made of polychloroprene in conformity HOSRN-F) with the international standard 60245 IEC 57 (e.g. 3 x 1.5 mm²
- The cable may only be replaced by qualified technicians.
- An all pole trip switch with at least 3 mm between the contacts must be installed between the unit and the mains supply.
- Don't use cables with aluminium conductors; don't solder the ends marked T min 85°C and resistant to atmospheric agents. of cables which are to be inserted into the binding posts; use cables
- The terminal wires must be positioned in such a way that both the wire and the insulating sheath are tightly fastened





Fit the terminal board cover using the two screws "25" and "26".

Fig. 16

Pass the power cable "44" through the hole "17" fig. 3 avoiding

any contact with mechanical moving parts until it exits to the left or right of the shutter support shaft.

45

Insert the screw "20" and fasten it down using the using the 6 mm

CONTROL UNIT Fig. 17

- Wire the power cable "44" to the electronic control unit. In the 05)6
- example shown in figure 17 we have connected:
- the brown wire to binding post 4;
- the black wire to binding post 5;
- the blue (neutral) wire to binding post 6;
- the yellow and green (earth wire) to binding post 7.
- If the motor rotates in the wrong direction (closing) invert the black shutter, will rotate to the completely open position Press the opening button "TA". The motor, not yet fixed to the rolling
- Reset the control unit, press the opening button TA" again and then press the closing button "TC"

and brown wires on the control unit

E

Fastening the geared motor to the rolling shutter



 If not already present, drill a hole "46 in the metal plate of the rolling shutter in alignment with the 10 mm fastening hole in the upper part of the crown wheel "27" and affix a metal support plaque on the under side of the shutter plate "46".



- screw "47" and the washer "48" using the spanner "8". Fasten the rolling shutter to the crown wheel with the M10 x 20
- the shutter to the crown using the M10 x 25 screw "50" and the If the play between the rolling shutter "51" and the crown wheel "27" is greater than 5 mm, insert the plastic shim "49" and fasten
- Block the geared motor by screwing the hand grip "32" as shown



ADJUSTING THE TRAVEL LIMITS

the rolling shutter completely closed and the motor blocked. Attention! Adjustment of the travel limits must be carried out with





Tel: Fax:

- Press the opening button "TA". The rolling shutter will rotate to the completely open position
- If the completely open position of the rolling shutter is not quite right it can be adjusted later on.
- Press the closing button "TC". The rolling shutter will rotate to the and rotate the wheel "55" completely open position. If the completely open position of the rolling shutter is not quite right, lift up the travel limit cover "52"
- is not completely closed; away from the micro switch activation blade if the rolling shutter anticlockwise "57" to move the travel limit adjustment wheel
- clockwise "58" if the rolling shutter is overreaching the completely closed position.
- If necessary, you may now adjust the completely open position of the shutter by rotating the wheel "53"



Once you have set the travel limits carry out several opening and closing cycles to check the rolling shutter travel limits.

MAINTENANCE

the motor power cables are disconnected. operations make sure the power is disconnected at the mains and Attention! Before carrying out any cleaning or maintenance

using original spare parts. Eventual repair work must be carried out by specialised personnel

maintenance has been carried out to the machine 'rolling shutter' valid if the following controls have been observed and eventual any case the 24 month or 1 million manoeuvre guarantee is only The motor does not normally require particular maintenance; in

unaltered throughout time and are suitable for temperatures of if required using lubricants which maintain their friction levels periodically check the moving parts for wear and tear and grease -20 to +70°C;

periodically check the correct operation of all safety devices (photoelectric cells, safety edges etc.);

in validating the guarantee as stipulated in the General Sales Conditions. These checks must be written down as they are paramount



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