

Tubular motor:

GEIGER XS56

Motor control:

XS56 SoftPerfection-X01

for rolling shutters with stoppers and anti-lift device

Type designation

GJ56..-E16





Original assembly and operating instructions

ΕN

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1. General information

Dear customer,

By purchasing a GEIGER motor you have decided on a quality product from GEIGER. Thank you very much for your decision and the confidence placed in us.

Before you put this drive into operation please observe the following safety instructions. It serves for the prevention of danger and for the avoidance of personal injury and damage to property.

The installation and operating instructions contain important information for the installer, the specialist electrician and the user. Please pass on these instructions if you transfer the product. These instructions should be kept by the user.

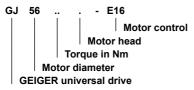
2. Guarantee

In the case of incorrect installation contrary to the installation and operating instructions and/ or constructional modification, the legal and contractual guarantee for property damage and product liability lapses.

3. Intended use

The tubular motors of the model range **XS56 (GJ56..-E16)** are designed for the operation of rolling shutters with anti-lift device and stoppers

The motors may not be used for the operation of roller grilles, garage doors, furniture and lifting tools.



4. Safety instructions

<u>/</u>!

ATTENTION: Important safety instructions. For personal safety, it is important to follow these instructions. Please keep these instructions for future reference.

- Do not allow children to play with stationary controls. Keep remote controls away from children.
- The installation is to be checked regularly for defective balance, signs of wear or damaged cables and springs, if relevant.
- Do observe the moving sun protection system and keep persons away until it has closed completely.
- ▶ When operating the manual release with the sun protection system open, please be cautious as it can fall down quickly if springs or tapes wear off or are broken.
- Do not operate the device if operations such as, for example, window cleaning are to be carried out in the vicinity.
- Disconnect the automatic controlled device from the mains power supply if operations such as, for example, window cleaning are being carried out in the vicinity.
- During operation observe the danger zone.
- > Do not use the installation if people or objects are in the danger zone.
- Urgently shut down damaged installations until repair.
- Unconditionally shut down the unit during maintenance and cleaning operations.
- Pinching and shearing points are to be avoided and must be secured.
- This appliance can be used by children aged 8 and above and persons whose physical, sensorial or mental capacities are impaired, or who have no experience or know-how if they have been supervised or been given instructions on the use of the appliance and if they understand the possible resulting dangers. Children are not permitted to play with the device. Cleaning and maintenance should not be carried out by children.
- The rated sound pressure level is less than 70 dB(A).
- Disconnect the device from the mains power supply for maintenance and replacement of parts.

If the motor is disconnected via a plug connection the operator must be able to control - from any place to which it has access – that the plug is removed. If this is not possible - due to design or installation - the disconnection from the power supply must be ensured via locking in the disconnected position (e.g. isolator).

The motor tube can get very hot during prolonged use. When working on the unit, do not touch the tube before it has cooled down.

5. Safety instructions for assembly

ATTENTION: Important safety instructions. Follow all installation instructions, as incorrect installation can lead to serious injuries.

- When mounting the motor without any mechanical protection of the driven parts and of the tube which may become hot, the motor must be installed at a height of at least 2.5 m above the ground or of another level which provides access to the drive.
- Before the motor is installed, all cables which are not needed are to be removed and all equipment which is not needed for power-operated actuation is to be put out of operation.
- The actuating element of a manual release must be mounted at a height of less than 1.8 m.
- If the motor is controlled by a switch or pushbutton, the switch or pushbutton must be mounted within eyeshot of the motor. The switch or pushbutton must not be located in the vicinity of moving parts. The height of installation must be at least 1.5 m above the floor.
- Permanently installed control devices must be attached visibly.
- In case of devices extending horizontally, a horizontal distance of at least 0.4 m must be respected between the fully extended part and any other fixed element.
- The rated speed and the rated torque of the motor must be compatible with the device.
- The mounting accessories that are used must be designed in accordance with the selected rated torque.
- Good technical knowledge and good mechanical skills are necessary for the motor installation. Incorrect installation can lead to serious injury.
 Electrical work must be carried out by a qualified electrician in accordance with the regulations in force locally.
- Only use connecting cables that are suitable with the environmental conditions and which meet the construction requirements. (see accessories catalogue)
- If the device is not equipped with a connecting cable and a plug, or other means for disconnecting from the mains with a contact opening on each pole according to the conditions of the overvoltage category III for full disconnection, a disconnecting device of this type must be incorporated into the permanently installed electrical installation according to the wiring rules.
- Do not mount the connecting cables near hot surfaces.
- ► A plug for the disconnection of the motor from the power supply must be accessible after installation.
- Damaged connecting cables must be replaced by GEIGER connecting cables of the same type.
- The device must be mounted as described in the installation instructions. Fixations shall not be made with adhesives since they are regarded as unreliable.

6. Installation instructions



Before fixing, the strength of the masonry or of the subsurface is to be checked.



Prior to installation please check to ensure there is no visible damage to the motor like cracks or open cables.



Caution: If the tube is screwed/riveted to the drive, the measure must be taken from the tube end to the center of the drive and marked on the tube.

If the motor is inserted into the winding shaft from above, no impacts or blows must be applied to the tubular motor during assembly.

When drilling the winding shaft never drill into the area of the tubular motor!

No impacts or blows may be exerted on the tubular motor during demounting either.

When inserting into the shaft, the tubular motor must not be struck and must not be allowed to fall into the shaft.

The unit with the tubular motor installed may only be transported **in a lying position**. If the unit is set up sideways, the tube motor must point downwards.

Installation into the rolling shutter:

Fix motor support to available stud bolts or in the side frame.

Insert motor into the shaft with a suitable adapter and drive up to the stop of the shaft adapter.

Insert roller capsule on the opposite side.

Put shaft with motor on motor support or on pivoting engine bearer. On the opposite side pull out roller capsule until bolt fits into ball bearing.

Screw together roller capsule with shaft.

Screw together shaft with tubular carrier.

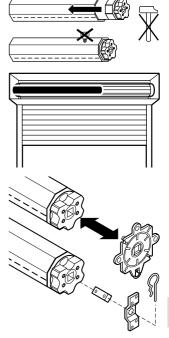
Fix rolling shutter casing to shaft.

Alternative: Use fixation plates for front box units. Attach the motor. The bearing locks into place. To loosen, turn the spring washer.

In order to adjust the end positions, a rolling shutter system with upper end stop and anti-lift device is required.



The GEIGER XS56 is suitable for roller shutters with a 60 mm 8-sided shaft (length > 370mm), shaft material < 0.60 mm.



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7. Information for the specialist electrician



Caution: Important installation instructions. Please follow all instructions since incorrect installation can lead to the destruction of the motor and the switching unit.

The operations with the service clamps may be accomplished only by an electrical specialist.

Motors with electronic limit stops can be connected in parallel. In this case the maximum load of the switching unit must not be exceeded.

When changing the running direction the switchover must be effected through an off-position.

When changing the running direction the switchover time must be at least 0.5 s.

With a three-phase network, please use the same external conductor in order to control the UP and DOWN directions.

PVC cables are not suitable for equipment used outdoors or exposed to prolonged high levels of UV radiation. These cables should not be used if they are likely to touch metal parts that can heat up to temperatures exceeding 70°C. Connecting cables with plug connectors of the Hirschmann Company are tested and approved with couplings of the Hirschmann Company.

In order to prevent a malfunction caused by coupling. the supply line (ref. NYM) from the actuator/switch to the motor must not exceed 100 m in case of motors with electronic end stops

8. Setting of end stops

- 1. Connect the connecting cable to the motor
- 2. Move the shutter to both end positions once (any order will do)
- X01 version: the final positions are not learned until the 5th ride.

3. DONE!

9. Delete the end positions

1. Move the curtain to any position of your choice.

Please note: respect a distance of approximately 50 cm from the end positions

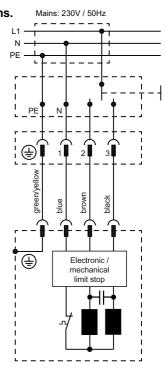
2. Operate as follows:

 break	-	UP	-	break	-	DOWN	-	break	-	UP	-	break	-	UP	-	break
		\bigtriangledown									•		-		~	
5 sec	1	sec		5 sec		1 sec		5 sec	-	1 sec		5 sec		1 sec		5 sec



Please note: a break of at least 5 seconds must be respected between the different runs.

3. DONE!



10. Obstacle recognition

When, after the teaching of the first complete, uninterrupted travel from one end position to the other end position is carried out, the torque needed is learnt.



X01 Version: the motor learns the upper end stop on the fifth run upwards to the upper stop. Afterwards, the required torque can be programmed.

In any following complete, uninterrupted travel from end position to end position, the torque needed is automatically reset. Slow changes in the installation due to ageing, soiling, cold or heat are thus automatically taken into consideration.

If a travel movement in UP direction is blocked by an obstacle, the motor switches off and a small return motion takes place.

The running direction in which the obstacle was recognized is blocked.

The block is removed if the motor has been operated in the opposite direction for a certain time. An obstacle must thus first be released before the motor can be operated again in the direction of the obstacle.

11. End position correction



The engine needs to be taught with the end stops (stopper and anti-lift device).

Checking of the end position, and if appropriate an end position correction, takes place after 5, 20, and then every 50 cycles.

Should a hangings elongation have resulted, due to temperature changes, this is corrected at the next end position correction.

If, due to temperature changes, modified winding behaviour should arise and the hangings should run against the stop, an immediate end position correction takes place. In addition, the

counter for the end position correction is started afresh.

12. What to do if...

Problem	Solution
Motor does not run.	 Motor not plugged in. Please check the plug connection. Check connecting cable for possible damage. Check the mains voltage and allow the cause of the voltage breakdown to be tested by a specialist electrician.
Instead of in the upwards direction, motor runs downwards.	The control leads are interchanged. Exchange black/brown control leads.
Motor only runs in one direction.	 Motor in the end position. Run motor in the opposite direction. Re-adjust the end positions, if necessary.
After running several times, the motor breaks down and no longer responds.	The motor became too hot and has switched off. Try it again after a cooling time of about 15 min.

13. Maintenance

The drive is maintenance-free.

14. Declaration of conformity

EU Deo	claration of Conformity	
Antriebst Schleifmi		
Product de	signation	
Troduct de	Venetian blinds motor, motor for rolling shut	tters motor for awnings
Time desig	· · · · · · · · · · · · · · · · · · ·	teris, motor for awnings
Type desig	GJ56, GR45, GU45, GSI56, GB45, GB3	5
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Applied di		
	2006/42/EG 2014/53/EU	
	2011/65/EU + (EU)2015/863 + (EU)2017/21	02
Applied sta	andards:	
	EN 60335-1:2012/AC:2014 EN 60335-1:2012/A11:2014 EN 60335-1:2012/A13:2017 EN 60335-1:2012/A13:2017 EN 60335-1:2012/A1:2019 EN 60335-1:2012/A2:2019 EN 60335-1:2012/A2:2019 EN 60335 Bcr.1:2008 EN 62233:2008 EN 55014-1:2017 EN 55014-2:2015 EN 61000-3-2:2019 EN 61000-3-2:2019 EN 61000-3-2:2019 EN 51000-3-2:2019 EN 51000-3-2:2000-3-2019 EN 51000-3-2000-3-2000-3-2000-3-2000-3-2000-3-2000-3-200	A12:2015
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Current declarations of conformity are available under www.geiger.de

15. Technical data

Technical data of tubular motor XS56-SOC (GJ5606)					
GJ5606-E16					
Application	Roller shutters with a 60 mm 8-sided shaft (length > 370mm), shaft material < 0.60 mm				
Voltage	230 V~/50 Hz				
Current	0,40 A				
Cos Phi (cosφ)	>0,95				
Inrush current (factor)	x 1,2				
Power	93 W				
Torque	6 Nm				
Speed	26 rpm				
Protection class	IP 54				
Total length ¹⁾	316,7 mm				
Operating mode	S2 4 min				
Sound pressure level ¹⁾	34 dB(A)				
Diameter	55 mm				
Weight	ca. 1,50 kg				
Air humidity	dry and non-condensing place				
Storage temperature	T = -15°C +70°C				

¹⁾ The average sound pressure level data are intended for guidance only. The values were determined by GEIGER at a distance of 1 m, with a hanging motor at idle speed and averaged over 10 seconds. There is no reference to any specific test standard.

Subject to technical modifications. Please find information to the ambient temperature range of our GEIGER motors under www.geiger.de

16. Notes on waste disposal

Recycling of packaging materials

In the interest of environmental protection, please contact your local government's recycling or solid waste management department to learn more about the services it provides.

Waste disposal of electric and electronic equipment

Electrical and electronic equipment must be collected and disposed of separately in accordance with EU regulations.

For technical questions, please call our service team at: +49 (0) 7142 938 333. They will be happy to assist you.



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