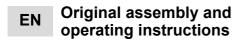


Venetian blind motor:

GEIGER GJ56.. E07 SMI For Venetian blinds





ΕN

Index

1.	General information	2
2.	Guarantee	2
3.	Intended use	3
4.	Safety instructions	3
5.	Safety instructions for assembly	3
6.	Identification number	
7.	Assembly note	5
8.	Installation instructions	
9.	Information for the specialist electrician	8
10.	Conductor assignment for SMI drives for mains voltage	9
11.	SMI drives on different AC phases	10
	For your notes	
13.	Setting of the end stops	12
14.	Activate the programming mode	12
15.	Programming/changing the end stops	13
16.	Referencing on the limit stop switch	13
17.	Enable/disable reference cycles	14
18.	Resetting to factory settings	14
19.	Obstacle detection and anti-freeze protection	14
20.	What to do if	14
21.	Declaration of conformity	15
22.		
23.	Technical data	16
24.	Notes on waste disposal	16

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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 motors of the model range **GJ56.. E07 SMI** with electronic end stop are designed exclusively for the operation of Venetian blinds.

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

GJ 56 xx x Design options Torque in Nm For head rails at least 56 mm GEIGER Venetian blinds motor

4. Safety instructions



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. Identification number

Four removable ID stickers are applied on the connecting cable of the motor **GJ56.. E07 SMI**. The printed number SMI-KEY-ID clearly identifies the motor in the bus system.

The stickers and / or the connecting cable must not be interchanged.

The stickers are useful if you want to note the installation location for a later bus integration of each motor (see "for your notes").



7. Assembly note

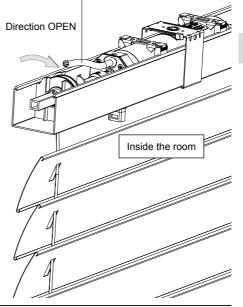
When viewed from inside the room, the power supply connection of the **GJ56.**. **E07 SMI** is located on the left side. The straps are wound on the winding rollers from the outside.

The **GJ56.. E07 SMI** must be installed in alignment with the turning bars.

It is important that the **GJ56.. E07 SMI** is installed centrally. Please make sure that the load is evenly distributed.

Inclined installation:

The inclined installation is permitted till 45° maximum to level.



Electric mains

8. Installation instructions

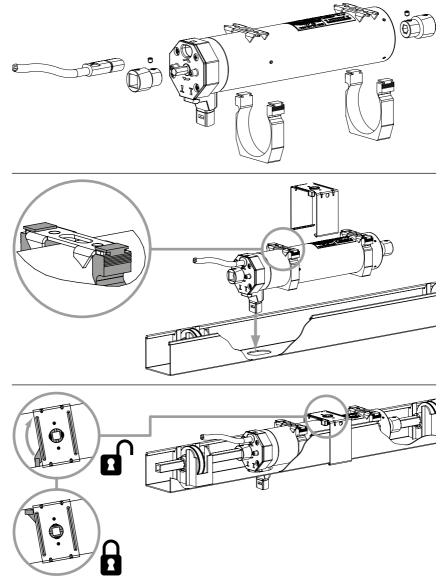


Prior to installation please check to ensure there is no visible damage to the motor like cracks or open cables.

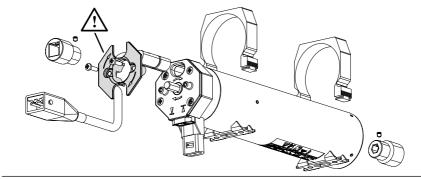


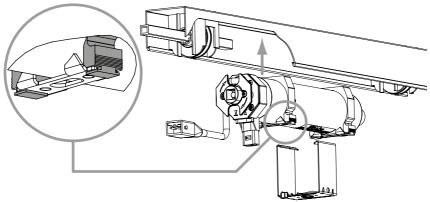
Before fixing please check the strength of the masonry and of the surface.

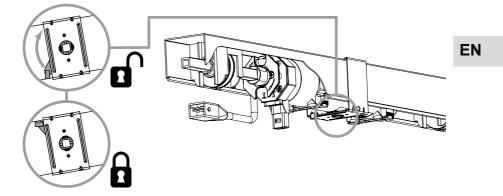
Head rail opening at top:



Head rail opening at bottom:







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9. Information for the specialist electrician



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



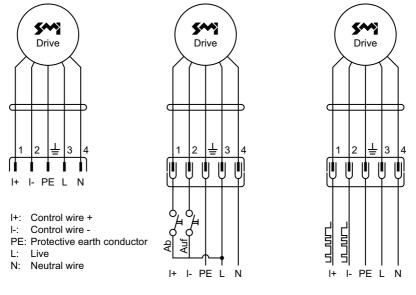
Attention! The bus voltage is not a safe low voltage. The bus is not galvanically isolated from the supply voltage.



The motor can only be operated with SMI certified actuators.

- For the operation with a setting switch, a locking switch is necessary (no simultaneous UP and DOWN commands).
- The operations with the service clamps may be accomplished only by an electrical specialist.
- The number of motors which can be connected to an actuator depends on the actuator. Please observe the instructions of the actuator manufacturer.
- In case of parallel connection, the maximum load of the electrical installation must not be exceeded.
- · By push-button operation the switchover must be effected through an off position.
- · By push-button operation the switchover time must be at least 0.2 s.
- Connecting cables with plug connectors of the Hirschmann Company are tested and approved with couplings of the Hirschmann Company.
- A 5-pole connecting cable with continuous power supply must be used for SMI motors. (GEIGER Flat5 with dark blue ring)
- In order to prevent a malfunction caused by coupling, the supply line (ref. NYM) from the actuator/switch to the motor must not exceed 100m in case of motors with electronic end stops.

10. Conductor assignment for SMI drives for mains voltage



Names

Push button operation

Telegram operation

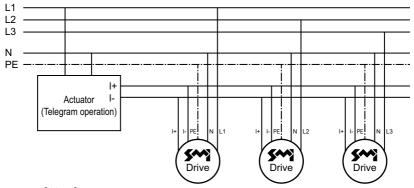
Changing the operating mode from telegram operation to pushbutton operation is done by switching the power supply off and on.

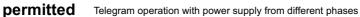
Connector on drive cables	The STAS4 connector from Hirschmann is recommended.			
Cable connections and connector	STAS 4 / STAK 4	Wire colour	Name	
assignment for the STAS4/STAK4 connection system with cables having black, grey, brown, blue and yellow-green wires	1 2 3 4 5 (PE)	black grey brown blue green-yellow	+ - L N PE	
Cable connections and connector	STAS 4 / STAK 4	Wire colour	Name	
assignment for the STAS4/STAK4 connector system with cables having 2 black wires		black 1 black 2 brown blue green-yellow ack wires: blue and green-yello brown and green-yello		
Note on laying SMI wires in custom cables	The I+ and I- SMI wires can be laid in the motor connec- tion line of the SMI drive (as above) or in their own cable. It is not permitted to lay SMI wires together with wires carrying other signals in one cable. If SMI drives wired in parallel are supplied with electrical power from different phases, the SMI I+ and I- wires must be laid in a separate cable.			

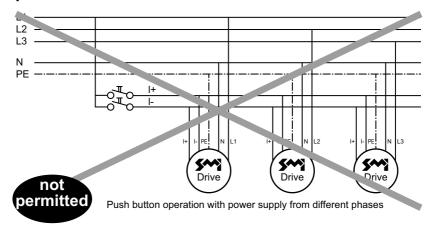
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11. SMI drives on different AC phases

Parallel connection to the control lines I+ and I- while supplying power to the drives from different phases, is only permissible in telegram operating mode.







12. For your notes ...

SMI-KEY-ID (sticker)	Place of installation e.g.: 1 st floor, left side, third room, 1 st window etc.

13. Setting of the end stops

General information

In order to set the end positions of the **GJ56.. E07 SMI** motors, any setting switch – with continuous power supply – can be used that has a programming key or that allows a simultaneous UP/DOWN command. In this case, the UP/DOWN keys must be activated simultaneously instead of the programming key.

Article number / GEIGER setting switch			
M56F152	with service terminal (D), 5 wires, SMI compatible		
M56F153	with service terminal (CH), 5 wires, SMI compatible		



Important: please observe the connecting diagram on the back of the setting switch.

Factory setting

- The motor is set on the lower end position at the factory. The upper end stop is at the very other end. (at least lower end stop + 200 motor rotations).
- The motor command is in normal operation.
- · The referencing is enabled on delivery.



Note: If the motor is installed in a closed Venetian blind and if the limit stop switch is used the motor can be operated without further settings.



If the factory setting has been carried out and if the programming mode is activated, max. 100 revolutions can be done downwards. Reset to factory settings for a further run downwards.

14. Activate the programming mode



Prerequisite: The motor is positioned between the upper and the lower end position. The limit stop switch should not be pressed.



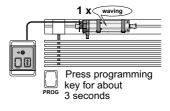
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The GJ56.. E07 SMI can be set with any setting switch that permits a simultaneous UP/DOWN command. In this case, the UP/DOWN keys must be simultaneously pressed instead of the programming key.

Activate the programming mode via limit stop switch

In order to activate the programming mode, the motor must be connected according to the diagram "push button operation" (see point 10).

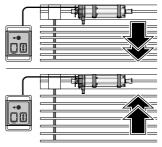
Press the programming key of the limit stop switch or the UP/DOWN keys simultaneously until, after about 3 seconds, the motor confirms "end position programming activated" with 1 x click-clack. Then release the key.



15. Programming/changing the end stops

The upper and lower end stops can be programmed and changed independently of each other.

- · Activate the programming mode.
- Run the motor in the direction of the desired end position. The motor interrupts its run just to show that it is in the programming mode:
- The direction in which the motor moves after the break* determines the end stop to be programmed. (UP = upper end stop, DOWN = lower end stop)
- When the desired end position is reached, move the motor in the opposite direction until 2 short breaks* show the last saved position.
- The programming is completed.
- * As long as the interruption of movement has not yet occurred, corrections can be done.



Start the setting process again to adjust another end position.

The referencing is automatically activated if the upper end position is programmed. Note: when referencing, the motor runs over the set upper end position until the limit stop switch.

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If the upper end position is reprogrammed on position, after the end position had been programmed on the limit stop switch, the referencing is automatically switched on. If the upper end position is programmed on position again, the referencing remains switched off or on.

Limit stop switch instead of upper end position

- If the direction UP should be turned off by the limit stop switch, there is no need to program the upper end stop. The blind moves every time against the limit stop switch.
- If an upper end position is already programmed and you now want to switch off with the limit stop switch, the programming mode must be activated and the blind moved against the limit stop switch. The lower end position is unchanged and the programming is completed.
- The motor is now always turned off by the limit stop switch.

Cancel the programming mode:

In order to cancel the programming mode, press the PROG key or press simultaneously the UP/DOWN keys until the motor confirms the cancellation of the programming mode after about 3 seconds with 2 x click-clack.

16. Referencing on the limit stop switch

The referencing on the limit stop switch can compensate a possible drifting of the upper end position due to the modified winding behaviour of the lifting tapes.

If the referencing has been activated (see below), the next UP run is done till the limit stop switch or after the programming of the upper end position.

The variation in distance between the upper limit position and the limit stop switch is stored.

After 1, 5, 20 and then every 50 cycles on the upper end stop, the motor runs against the limit stop switch in order to test if the variations in distance have changed. If this is the case, the upper end position is readjusted.

The motor stops on the limit stop switch by the reference runs.

17. Enable/disable reference cycles

The referencing is enabled at the factory. The referencing can only be effective if the upper end position is set on position.

Switching on/off referencing:

Press the programming keys (programming key/UP/DOWN keys/limit stop switch and DOWN key) until the motor jerks 1 x after about 3 seconds and another time after 6 seconds for feedback "Switching on/off referencing".

A subsequent UP command with 1 x jerking enables the referencing, a DOWN command with 2 x jerking disables it.

Automatic activation of the referencing

The referencing is automatically activated when the upper limit position was first learned on the limit stop switch and the referencing was disactivated.

If the upper end position is learned again on position and the referencing was not on, the referencing remains off

18. Resetting to factory settings

Press the programming keys (programming key/UP/DOWN keys/limit stop switch and DOWN key) about 10 seconds until the motor jerks 1 x after 3 seconds, 1 x after 6 seconds and 4 x after 10 seconds. Then the motor is reset to factory settings and the referencing is activated. Note: the position at which the drive has been reset to the factory setting is now defined as the lower end position and can be adjusted by activating the learning mode.

19. Obstacle detection and anti-freeze protection

For an optimal operation of the obstacle detection function, move the blind from bottom to top without interruption, after the programming has been completed.

After an obstacle detection (e.g. obstacle or blind frozen to the window sill), the UP direction is blocked.

A short command in the DOWN direction releases the UP direction.

20. 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 downwards direction, motor runs upwards.	 The control leads are interchanged. Exchange black/grey control leads.
Motor only runs in one direction.	 Motor in the end position. Run motor in the opposite direction. Readjust 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.
The blind is in the upper position, actuates the limit stop switch and can no longer be moved downwards.	• The motor was installed upside down or the lower end position has been overrun and the lift tapes were wound up incorrectly. Allow free mobility of the limit stop switch. Reset the end stops.

21. Declaration of conformity

EU Dec	laration of Conformity	
Antriebste Schleifmül		
Product des	ignation:	
	Venetian blinds motor, motor for rolling shu	utters, motor for awnings
Type design	ation:	
71	GJ56, GR45, GU45, GSI56, GB45, GB	35
Applied dire	actives:	
	2006/42/EG 2014/53/EU 2011/65/EU + (EU)2015/863 + (EU)2017/2	102
Applied star		
	EN 60335-1:2012/AC:2014 EN 60335-1:2012/A11:2014 EN 60335-1:2012/A11:2014 EN 60335-1:2012/A1:2017 EN 60335-1:2012/A1:2019 EN 60335-1:2012/A2:2019 EN 60335-2:97:2006+A11:2008+A2:20104 EN 62233 Ber.1:2008 EN 52014-1:2017 EN 55014-1:2017 EN 55014-2:2015 EN 61000-3-2:2019 EN 61000-3-3:2013 ETSI EN 301 489-1 V2.2.0(2017-03) ETSI EN 301 489-3 V2.1.1(2017-02) DIN EN IEC 63000:2019-05	+A12:2015
Authorized	representative for technical data:	
	Gerhard Geiger GmbH & Co. KG	
Address:		
Bietigheim-I	Schleifmühle 6, D-74321 Bietigheim-Bissing Bissingen, 20.04.2022	Roland Kraus (General Manager)
Phone +49(0)71- Sitz Bietigheim-Bi Komplementär: G	imbH & Co. KG 774321 Bietigheim-Bissingen 12 9380 Fax +49(0)7142938 230 info@geiger.de www.geiger.c singen Amsgericht Suttgart HRA 300591 USt-IdNr. DE1450021 eiger Verwaltungs-GmbH Sitz Bietigheim-Bissingen Amsgericht St 30 and Kraus WHEE-RegNr. DE47902323	146

22. Maintenance

The drive is maintenance-free.

23. Technical data

Technical data GJ56 E07 with electronic end stop					
	GJ5603k	GJ5606k	GJ5606 ¹⁾	GJ5610	GJ5620
Voltage			230 V~/50 Hz		
Current	0,40 A	0,40 A	0,40 A	0,60 A	0,85 A
Cos Phi (cosφ)			> 0,95		
Inrush current (factor)			x 1,2		
Power	90 W	93 W	90 W	135 W	190 W
Torque	3 Nm	6 Nm	6 Nm	10 Nm	2 x 10 Nm
Speed			26 rpm		
Protection class			IP 54		
Limit switch range	200 rotations				
Operating mode	S2 4 min.	S2 4 min.	S2 6 min.	S2 4 min.	S2 4 min.
Length	319,5 mm	319,5 mm	324,5 mm	329,5 mm	356,7 mm
Diameter	eter 55 mm				
Weight	ca. 1,50 kg	ca. 1,50 kg	ca. 1,60 kg	ca. 1,70 kg	ca. 2,20 kg
Air humidity	dry and non-condensing place				
Storage temperature	e temperature T = -15°C +70°C				
1) Due time entireired version					

¹⁾ Run-time optimized version

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

24. 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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