



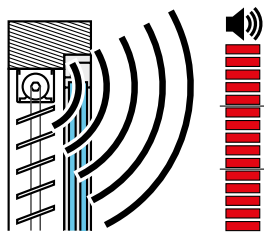
Product Datasheet

# GEIGER-GJ56.. – with mechanical or electronic limit stop

## Venetian blind motor series GJ56..

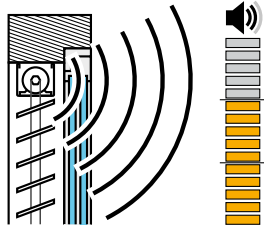
Our electric motors GJ56.. with mechanical limit stop and GJ56.. E with electronic limit stop have proved successful in daily use millions of times. Both drives are characterized by their reliable and proven components, the safe and quick installation in all standard head rails and the optimum torque values.

## GJ56.. – Noise reduction



### Standard Venetian blind motors

In the past, higher priority was usually given to functionality rather than to the sound power level of the motor.



### GJ56..

- Noise-optimized gear through:
- ▶ Application of new materials
  - ▶ New material combinations
  - ▶ Optimized processing quality

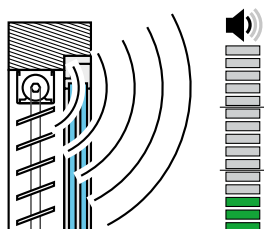
These measures allowed us to reduce the sound pressure level up to 6 dB(A).

### Advantages:

- ▶ Better running smoothness
- ▶ Lower noise emission level on the facade
- ▶ Lower noise emission level inside the room
- ▶ The motors are designed so that the low noise level is maintained throughout their lifetime.

Available up to 10 Nm.

## GJ56.. – SILENT



### GJ56.. with Silent Brake

The GJ56.. brake which has proven its reliability millions of times has been optimized through further technical development so that the switching operation is now noticeably quieter.

### Your advantage:

- ▶ Lower noise emission level on the facade when starting/stopping the motor
- ▶ Lower noise emission level inside the room
- ▶ Switching noise offering now a quite pleasant sound quality

Suitable for all electronic and mechanical motors between 3 and 10 Nm.

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## Made by GEIGER

GEIGER relies on Germany as production location: the **GEIGER-GJ56..** like all GEIGER motors, is developed and produced in Germany. This situation allows an optimal combination of R & D, manufacturing processes and quality management.

Our clients benefit from:

- Low noise motor
- Low energy consumption, a big plus factor today
- Low heating of the engine and therefore an unusual long running time

## GJ56.. with mechanical end stop

The GEIGER GJ56.. with mechanical end stop have proved their quality millions of times and are operated worldwide with Venetian blinds.

### Advantages:

- ▶ **Safe adjustment of the end stops with self-locking push-buttons**
- ▶ **Limit switch range: 80 rotations**
- ▶ **Safe fitting in all current head rails – no tools needed**
- ▶ **Pluggable connection cable**
- ▶ **Available with 3, 6, 10, 16 and 20 Nm torque**



### Technical data GJ56.. with mechanical end stop (standard)

	GJ5603k	GJ5606k	GJ5610	GJ5620
<b>Voltage</b>	230V~/50Hz	230V~/50Hz	230V~/50Hz	230V~/50Hz
<b>Current</b>	0,40 A	0,40 A	0,60 A	0,85 A
<b>Cos Phi (cosφ)</b>	> 0,95	> 0,95	> 0,95	> 0,95
<b>Inrush current (factor)</b>	x 1,2	x 1,2	x 1,2	x 1,2
<b>Power</b>	90 W	93 W	135 W	190 W
<b>Torque</b>	3 Nm	6 Nm	10 Nm	2 x 10 Nm
<b>Speed</b>	26 1/min	26 1/min	26 1/min	26 1/min
<b>Protection class</b>	IP 54	IP 54	IP 54	IP 54
<b>Limit switch range</b>	80 rotations	80 rotations	80 rotations	80 rotations
<b>Operating mode</b>	S2 4 min	S2 4 min	S2 4 min	S2 4 min
<b>Sound pressure level <sup>1)</sup></b>	34 dB(A)	34 dB(A)	35 dB(A)	40 dB(A)
<b>Total length</b>	299 mm	299 mm	309 mm	336 mm
<b>Diameter</b>	55 mm	55 mm	55 mm	55 mm
<b>Weight</b>	approx 1,50 kg	approx 1,50 kg	approx 1,70 kg	approx 2,20 kg

### Technical data GJ56.. with mechanical end stop (run-time optimized version)

	GJ5606	GJ5616 <sup>3)</sup>	Special model GS5624 <sup>3)</sup>
<b>Voltage</b>	230V~/50Hz	230V~/50Hz	230V~/50Hz
<b>Current</b>	0,40 A	0,70 A	0,40 A
<b>Cos Phi (cosφ)</b>	> 0,95	> 0,95	> 0,95
<b>Inrush current (factor)</b>	x 1,2	x 1,2	x 1,2
<b>Power</b>	90 W	150 W	90 W
<b>Torque</b>	6 Nm	2 x 8 Nm	2 x 12 Nm
<b>Speed</b>	26 1/min	26 1/min	5 1/min
<b>Protection class</b>	IP 54	IP 54	IP 54
<b>Limit switch range</b>	80 rotations	80 rotations	80 rotations
<b>Operating mode</b>	S2 6 min	S2 6 min	S2 6 min
<b>Sound pressure level <sup>1)</sup></b>	34 dB(A)	40 dB(A)	-
<b>Total length</b>	304 mm	336 mm	311 mm
<b>Diameter</b>	55 mm	55 mm	55 mm
<b>Weight</b>	approx 1,60 kg	approx 2,20 kg	approx 1,70 kg

Subject to technical modifications



<sup>1)</sup> 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.

<sup>2)</sup> NF and CCC certificates on request

<sup>3)</sup> Without VDE certificate

## ■ GJ56..-T90 – for high temperature ranges

This Venetian blind motor has been optimized for use in high temperature ranges. Through the use of special materials this motor can be operated up to +90° C.

The requirements of the Cahier 3677 – CSTB, class B –

- 8000 cycles at room temperature
- 2000 cycles at 75° C
- 500 cycles at 85° C

have been fulfilled.

These tests were realized by GEIGER on a test setup according EN14202 at constant nominal load of 6 Nm – which exceeds by far the given requirements – and successfully completed.

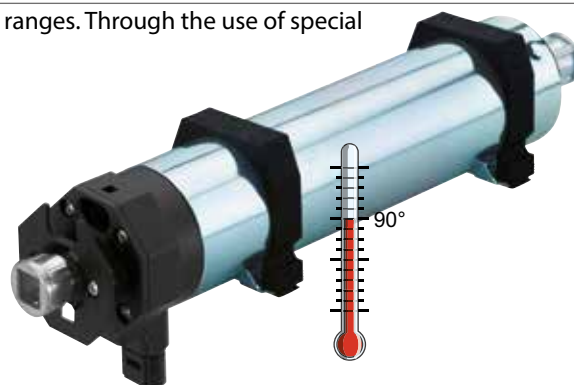
**Based on these positive results we guarantee that the GJ5606 motor can be safely operated in a temperature range from -20° C to + 90° C.**

The current standard connecting cables are approved in accordance with EN60335-1, section 25 up to 60° C.

However you can order special connecting cables that are approved up to 90° C.

Please find below the item numbers:

- M56E451 (50 cm with STAS 3 plug)
- M56E450 (90 cm with STAS 3 plug)
- M56E452 (300 cm open-ended)



### Technical data GJ56..-T90 with mechanical end stop (run-time optimized version)

	GJ5606-T90	GJ5616-T90
<b>Voltage</b>	230V~/50Hz	230V~/50Hz
<b>Current</b>	0,40 A	0,70 A
<b>Cos Phi (cosφ)</b>	> 0,95	> 0,95
<b>Inrush current (factor)</b>	x 1,2	x 1,2
<b>Power</b>	90 W	150 W
<b>Torque</b>	6 Nm	16 Nm
<b>Speed</b>	26 1/min	26 1/min
<b>Protection class</b>	IP 54	IP 54
<b>Limit switch range</b>	80 rotations	80 rotations
<b>Operating mode</b>	S2 6 min	S2 6 min
<b>Total length</b>	304 mm	336 mm
<b>Diameter</b>	55 mm	55 mm
<b>Weight</b>	approx 1,60 kg	approx 2,20 kg

Subject to technical modifications



## GJ56..-DuoDrive

The GJ56..-DuoDrive has been designed to set the slat angle of the Venetian blinds with highest precision and to ensure a fast closing/opening of the blinds – **two apparently contradictory requirements united in one motor.**

The solution lies in the two different speeds of the DuoDrive:

- 39 revolutions per minute for the blind movements (50% faster than before)
- 9 revolutions per minute for the rotation of the slats (65% slower than before)

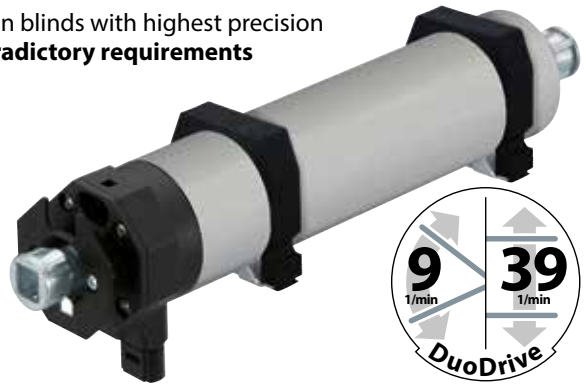
**This could be achieved through an automatic switching gear unit which switches from 9 to 39 revolutions per minute by each change of direction after a 3/4 rotation.**

**Advantages of the fast travel movements:**

- ▶ Fast protection of the blind in case of wind alarm
- ▶ Additional comfort through shorter travel times
- ▶ More driving cycles before activation of the thermal protection
- ▶ Time savings by commissioning of the Venetian blind

**Advantages of the slow rotation of the slats:**

- ▶ Triples the available time for positioning the slats
- ▶ Ideal for automated daylight control without SMI
- ▶ Optimally configured for a sensitive slat adjustment by hand



Technical data GJ5606-DuoDrive with mechanical end stop	
<b>Voltage</b>	230V~/50Hz
<b>Current</b>	0,65 A
<b>Cos Phi (cosφ)</b>	> 0,95
<b>Inrush current (factor)</b>	x 1,2
<b>Power</b>	145 W
<b>Torque</b>	6 Nm
<b>Speed</b>	9 1/min / 39 1/min
<b>Protection class</b>	IP 54
<b>Limit switch range</b>	80 rotations
<b>Operating mode</b>	S2 4 min.
<b>Diameter</b>	55 mm
<b>Weight</b>	approx 2,10 kg

Subject to technical modifications



## GJ56.. E06 – Electronic drive

- Adjustable end positions with any standard setting cable
- With limit stop switch for safety shutdown
- With optional limit stop switch as reference point for belt length adjustment
- Dynamic torque shutdown
- Parallel connection
- Starting time: about 100 ms
- With 3, 6, 10 and 20 Nm, different cable lengths are available

### Advantages – 4-fold safety through:

- ▶ **Proven engine and braking system**
- ▶ **Motor intelligence: torque shutdown in case of overload**
- ▶ **Emergency shutdown via limit stop switch: operating errors are excluded**
- ▶ **Anti-freeze protection**



## GJ56.. E07 SMI – Premium electronic drive

- Adjustable end positions with any standard setting cable
- With limit stop switch for safety shutdown
- Parallel connection and individual control of max. 16 SMI motors with SMI actuator
- Starting time: about 100 ms
- Suitable for Venetian blind systems with automatic solar tracking
- With 3, 6, 10 and 20 Nm, different cable lengths are available

### Advantages – 5-fold safety through:

- ▶ **Proven engine and braking system**
- ▶ **Motor intelligence: torque shutdown in case of overload**
- ▶ **Emergency shutdown via limit stop switch: operating errors are excluded**
- ▶ **Feedback “position” to building control**
- ▶ **Feedback “defect” to building control**



### Technical data GJ56.. E06 and E07 with electronic end stop

	GJ5603k E..	GJ5606k E..	GJ5606 E.. <sup>1)</sup>	GJ5610 E..	GJ5620 E..
<b>Voltage</b>	230V~/50Hz	230V~/50Hz	230V~/50Hz	230V~/50Hz	230V~/50Hz
<b>Current</b>	0,40 A	0,40 A	0,40 A	0,60 A	0,85 A
<b>Cos Phi (cosφ)</b>	> 0,95	> 0,95	> 0,95	> 0,95	> 0,95
<b>Inrush current (factor)</b>	x 1,2	x 1,2	x 1,2	x 1,2	x 1,2
<b>Power</b>	90 W	93 W	90 W	135 W	190 W
<b>Torque</b>	3 Nm	6 Nm	6 Nm	10 Nm	2 x 10 Nm
<b>Speed</b>	26 1/min	26 1/min	26 1/min	26 1/min	26 1/min
<b>Protection class</b>	IP 54	IP 54	IP 54	IP 54	IP 54
<b>Limit switch range</b>	> 200 rotations	> 200 rotations	> 200 rotations	> 200 rotations	> 200 rotations
<b>Operating mode</b>	S2 4 min.	S2 4 min.	S2 6 min.	S2 4 min.	S2 4 min.
<b>Total length (with coupling)</b>	319,5 mm	319,5 mm	324,5 mm	329,5 mm	356,7 mm
<b>Diameter</b>	55 mm	55 mm	55 mm	55 mm	55 mm
<b>Weight</b>	approx 1,50 kg	approx 1,50 kg	approx 1,60 kg	approx 1,70 kg	approx 2,20 kg

<sup>1)</sup> run-time optimized motor

Subject to technical modifications





## GJ56.. E09 KNX – X-line Raffstore

### KNX connection

Applications with KNX require utmost precision and accuracy – exactly the right thing for the technically superior X-line Raffstore. With this motor a KNX controller can satisfy even the highest expectations.

The amount of cabling is reduced and a time-consuming referencing is no longer necessary during commissioning. The direct taking over of the position of the hanging and their feedback as well as any faults are reported back to the KNX building automation and if necessary visualized there.

### GJ56.. E09 KNX – X-line Raffstore

- Adjustable end positions with any standard setting cable
- With limit stop switch for safety shutdown
- With optional limit stop switch as reference point for belt length adjustment
- Dynamic torque shutdown
- Parallel connection
- Starting time: about 100 ms
- KNX bus cable incl. (3 m)
- With 6, 10 and 20 Nm, different cable lengths are available



### Two operating concepts:

- ▶ **Push-button operation:** if the motor is connected with a 4-wire cable (flat4-cable), a push-button (UP-STOP/DOWN-STOP) can be used.
- ▶ **2 key-operation:** if the motor is connected with a 5-wire cable (flat5-cable), a locked operating switch (UP and DOWN keys) can be used.

### Advantages – 6-fold safety through:

- ▶ **Proven engine and braking system**
- ▶ **Motor intelligence: torque shutdown in case of overload**
- ▶ **Shutdown via limit stop switch optionally possible**
- ▶ **Referencing on/off**
- ▶ **Direct connection into the KNX building technology**
- ▶ **Direct feedback of position and “defect” to the KNX building technology**

Technical data X-line Raffstore (GJ56.. E09 with electronic end stop)			
	GJ5606 E..	GJ5610 E..	GJ5620 E..
<b>Voltage</b>	230V~/50Hz	230V~/50Hz	230V~/50Hz
<b>Current</b>	0,40 A	0,60 A	0,85 A
<b>Cos Phi (cosφ)</b>	> 0,95	> 0,95	> 0,95
<b>Inrush current (factor)</b>	x 1,2	x 1,2	x 1,2
<b>Power</b>	90 W	135 W	190 W
<b>Torque</b>	6 Nm	10 Nm	2 x 10 Nm
<b>Speed</b>	26 1/min	26 1/min	26 1/min
<b>Protection class</b>	IP 54	IP 54	IP 54
<b>Limit switch range</b>	> 200 rotations	> 200 rotations	> 200 rotations
<b>Operating mode</b>	S2 6 min	S2 4 min	S2 4 min
<b>Total length (with coupling)</b>	324,5 mm	329,5 mm	356,7 mm
<b>Diameter</b>	55 mm	55 mm	55 mm
<b>Weight</b>	approx 1,60 kg	approx 1,70 kg	approx 2,20 kg

Subject to technical modifications



## GJ56.. F01 – Electronic motor with integrated radio receiver

- Adjustable end positions without setting cable
- With limit stop switch for safety shutdown
- With optional limit stop switch as reference point for belt length adjustment
- Dynamic torque shutdown
- Parallel connection
- Starting time: about 100 ms
- With 3, 6, 10 and 20 Nm, different cable lengths are available



### Advantages – 6-fold safety through:

- ▶ Proven engine and braking system
- ▶ Motor intelligence: torque shutdown in case of overload
- ▶ Emergency shutdown via limit stop switch: operating errors are excluded
- ▶ Referencing on/off
- ▶ With integrated radio receiver
- ▶ Anti-freeze protection

Technical data GJ56.. F01 with electronic end stop					
	GJ5603k F01	GJ5606k F01	GJ5606 F01 <sup>1)</sup>	GJ5610 F01	GJ5620 F01
<b>Voltage</b>	230V~/50Hz	230V~/50Hz	230V~/50Hz	230V~/50Hz	230V~/50Hz
<b>Current</b>	0,40 A	0,40 A	0,40 A	0,60 A	0,85 A
<b>Cos Phi (cosφ)</b>	> 0,95	> 0,95	> 0,95	> 0,95	> 0,95
<b>Inrush current (factor)</b>	x 1,2	x 1,2	x 1,2	x 1,2	x 1,2
<b>Power</b>	90 W	93 W	90 W	135 W	190 W
<b>Torque</b>	3 Nm	6 Nm	6 Nm	10 Nm	2 x 10 Nm
<b>Speed</b>	26 1/min	26 1/min	26 1/min	26 1/min	26 1/min
<b>Protection class</b>	IP 54	IP 54	IP 54	IP 54	IP 54
<b>Limit switch range</b>	> 200 rotations	> 200 rotations	> 200 rotations	> 200 rotations	> 200 rotations
<b>Operating mode</b>	S2 4 min.	S2 4 min.	S2 6 min.	S2 4 min.	S2 4 min.
<b>Total length (with coupling)</b>	319,5 mm	319,5 mm	324,5 mm	329,5 mm	356,7 mm
<b>Diameter</b>	55 mm	55 mm	55 mm	55 mm	55 mm
<b>Weight</b>	approx 1,50 kg	approx 1,50 kg	approx 1,60 kg	approx 1,70 kg	approx 2,20 kg

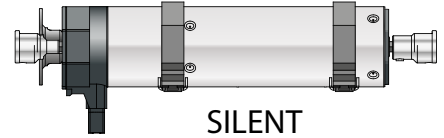
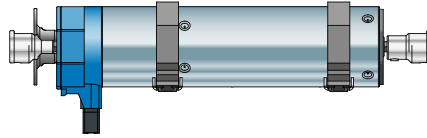
<sup>1)</sup> run-time optimized motor

Subject to technical modifications



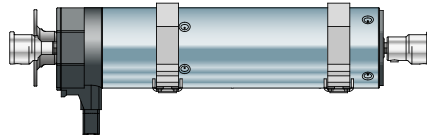
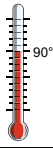
## GJ56.. – Colour code

GJ56..

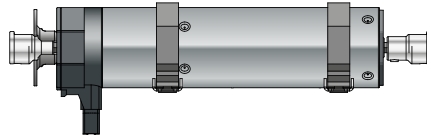


SILENT

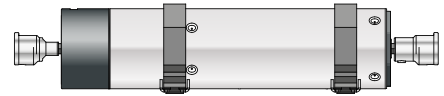
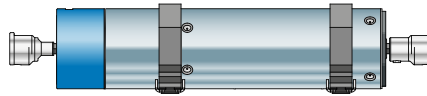
GJ56..-T90



GJ56..-DuoDrive

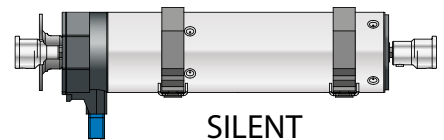
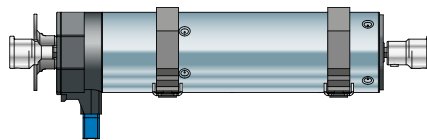


GJ56.. e5




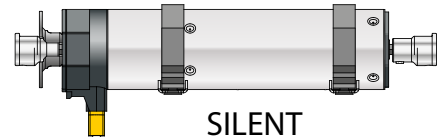
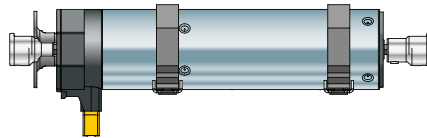
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GJ56.. E06



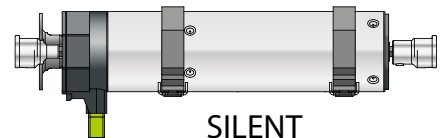
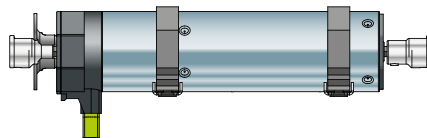
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GJ56.. E07   
Standard Motor Interface



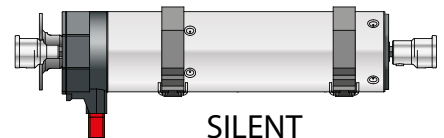
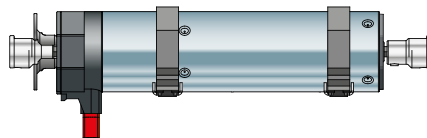
SILENT

GJ56.. E09   
Drive technology by   KNX intelligence by RADEMACHER  
Bewegt mehr.



SILENT

GJ56.. F01



SILENT



The name GEIGER Antriebstechnik is synonymous worldwide for drive solutions in the sun protection area.

Today we are with about 320 employees one of the leading manufacturers of mechanical and electrical drives for Venetian blinds, awnings and rolling shutters.

GEIGER is a well-known, mid-sized company which offers worldwide drive components for the sun protection systems.