

X-LINE VENETIAN BLIND MOTORS

Product Datasheet



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WITH ELECTRONIC END STOPS E09 AND E10

Venetian blind motors, series GJ56..

Our electric motors GJ56.. with mechanical end stops and GJ56..e with electronic end stops 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.

Setting the end stops

E09 end stop:

The end positions are set with a push button and by switching on/off the power supply.

E10 end stop:

The end positions can be set easily and quickly with any standard setting cable.

If no setting cable is available you can activate the limit stop switch and the DOWN key on the control switch in order to activate the programming mode on the motor.

Focusing on the development of new technologies and innovative projects but also on improving the tried and tested, Geiger has now combined the advantages of a mechanical and an electronic shutdown on the GJ56.. series.

Thus we designed the electronic X-line Venetian blind motors that are equipped with both an electronic end stop and a limit stop switch.

Functions of the limit stop switch:

By the X-line Venetian blind motors, the limit stop switch can be equipped with two functions:

- as shutdown in the upper end position (when the upper end position is not set)
- as reference point in order to reposition the upper end stop in case of modified winding of the lifting tapes

Using the limit stop switch as reference point ensures an accurate positioning of the upper end stop over the years.

Obstacle detection and anti-freeze protection

The X-line Venetian blind motors have an overload detection in the UP direction. Thus, the lifting tapes

will not get damaged even if the end rail is frozen or if an object prevents the opening of the blind.

MADE IN GERMANY

Geiger and Rademacher rely on Germany as production location: the GJ56.. 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 motors
- Low energy consumption, a big plus factor today
- Low heating of the engine and therefore an unusual long running time

Referencing

The special feature of this motor is an absolutely unique referencing of the upper position. This typical situation is quite familiar: the upper position is to be set very accurately so that the sun protection device looks good and after a few weeks it could be done all over again!

Fortunately this situation belongs to the past with the unique referencing of the X-line Venetian blind.

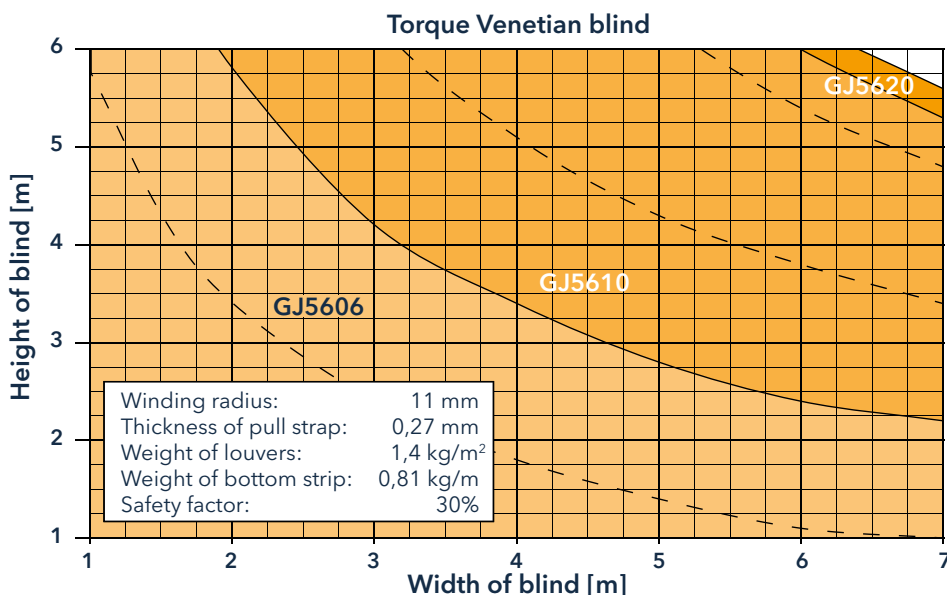
Reference runs after 5, 20 and then every 50 cycles allow an accurate positioning of the upper end stop over the years. Of course the referencing can be switched on and off at any time.

KNX connection

Applications with KNX require utmost precision and accuracy – exactly the right thing for the technically superior X-line Venetian blind motor. 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.

Torques



X-line Venetian blind - Premium motor with KNX

- Two operating concepts are available:
 - E09:** 1-button intuitive concept including slat turn (STAS3 compatible)
 - E10:** Convenient operation with locked switch (STAS4 compatible)
- End positions can be set without setting cable
- With limit stop switch for safety shutdown
- Starting time: 100 ms.
- Optimally suited for Venetian blind systems with automatic solar tracking
- Available as 6, 10 and 20 Nm and with various cable lengths
- Supply with 4-wire (E09) or 5-wire (E10) cable
- The first in its class with "real" status message
- Registration via ETS3 / ETS4 / ETS5 and push-button on the motor head and physical default address 15.15.241
- Programmable even without 230V
- Travel commands and accurate positioning run without reference run (blind and slat position)
- Communication object for the indication of "current position"
- Communication object for the indication of "blocked blind"
- Alarm objects for the control of environmentally-dependent functions
- Saving a separate KNX actuator
- Cost reduction through reduced cabling and space savings in the distribution box
- Small control room and lower fire load in the control room



Your advantage - 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 can be enabled/disabled
- ▶ Direct connection into the KNX building technology
- ▶ Direct feedback of position and "defect" to the KNX building technology

Technical data X-line Venetian blind (GJ56.. E09/E10 with electronic end stop)

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

Subject to technical modifications



CONNECTING CABLES AND SETTING SWITCHES

Please find below different types of pluggable connecting cables and accessories for the new Venetian blind motors.



M56E... | Connecting cables for X-line Venetian blind motors (E09)

Features

- Suitable for in- and outside
- UV resistant
- Halogen-free
- Temperature range -25°C up to 60°C
- Cable designation: 05RR-F 4G 0.75mm²

Part Nr.	Length [cm]	Cable end A	Cable end B
M56E462	90	Geiger plug	STAS 3
M56E627	50	Geiger plug	STAS 3
M56E628	300	Geiger plug	open end cable
M56E629	700	Geiger plug	open end cable



M56E... | Connecting cables for X-line Venetian blind motors (E10)

Features

- Suitable for in- and outside
- UV resistant
- Halogen-free
- Temperature range -25°C up to 60°C
- Cable designation: 05RR-F 5G 0.75mm²

Part Nr.	Length [cm]	Cable end A	Cable end B
M56E463	90	Geiger plug	STAS 4
M56E630	50	Geiger plug	STAS 4
M56E631	300	Geiger plug	open end cable
M56E632	700	Geiger plug	open end cable



M56.... | Setting switch

Note

- A 5-wire setting switch M56F152 or M56F153 is required for KNX motors (E10).

Part Nr.	Description
M56F152	with service terminal (D), 5 wires, SMI compatible
M56F153	with service terminal (CH), 5 wires, SMI compatible
M56F154	with service terminal (D), 4 wires
M56E399	Adaptation cable with STAK3 and open cable ends
M56E658	Adaptation cable with STAK4 and open cable ends



M56K... | Hirschmann connections

Note

- STAK4 coupling pieces and STAS4 plugs are required for connection with SMI motors

Part Nr.	Description
M56K087	Hirschmann STAS4 N V0 plug, grey
M56K179	Hirschmann STAS4 N V0 plug, black
M56K180	Hirschmann STAK4 N V0 coupling piece, black
M56K088	Hirschmann STASI4 safety bracket (no printing)

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