GEIGER
ANTRIEBSTECHNIK

GEIGER SOLIDline SoftPlus-Qi

Product Data Sheet

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SOLIDline SoftPlus-Qi – the first Plug & Play awning motor

The installation of awning motors is now considerably simplified with the new SoftPlus-Qi electronic limit stop from GEIGER.

The well-known and reliable SoftPlus technology has been further simplified.
No special setting cable, no special skills required - GEIGER SOLIDline SoftPlus-Qi.

Problem and solution

Assembly efficiency

- **Problem:** The commissioning of awnings is often complicated and very time consuming. A special setting cable is usually required. The customer has no possibility to modify himself the set end stops, if necessary.
- **Solution:** The GEIGER SoftPlus-Qi ensures an extremely fast and efficient programming: precise and safe positioning. Since no setting cable is required, the customer may adjust himself the awning position at any time.

Also available as radio motor

The identical motor is also available in a radio-controlled version as SOLIDline SoftPlusWireless-Qi. The GEIGER radio is a unidirectional radio system, which is characterised by its long range and versatile components such as sun/wind sensor, timer, handheld transmitter and other accessories. Simple programming and optimized comfort!

Made by GEIGER

GEIGER relies on Germany as production location:
The GEIGER SOLIDline, 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 motors
- Low energy consumption, a big plus factor today
- Low heating of the engine and therefore an unusual long running time

Design and features

The GEIGER SoftPlus-Qi meets several market requirements in a quite unusual way:

- Installation with automatic positioning
- Installation with Plug & Play
- no setting cable is required

… a well-conceived system: GEIGER SOLIDline SoftPlus-Qi

Functions

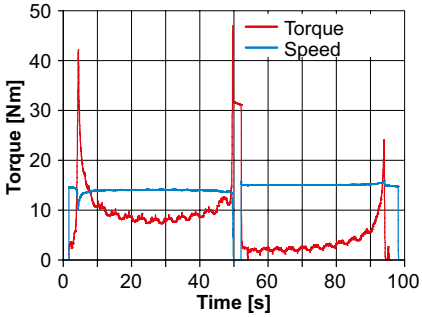
Plug & Play

The GEIGER SoftPlus-Qi simplifies the installation significantly. The motor is delivered in the programming mode. After assembly, move the awning to the required end position and close the awning until the motor shuts down through a very sensitive torque cut-off. Done!

Detection System

GEIGER awning motors are able to detect the position of the cloth during operation. By approaching the point of maximum extension, the motors run at full power. Near closing point, they reduce their power accordingly.

You will notice that the GEIGER motors are particularly powerful around the maximum point of extension and particularly sensitive around closing point. This combination offers significant advantages to all awning manufacturers.



Torque diagram by extension/retraction of a folding arm awning

Length compensation system

The GEIGER SoftPlus-Qi has a length compensation system which guarantees that the final external position remains unchanged even if the cloth length is modified. In particular regarding covered terraces, pergolas or sunrooms, this system offers high security and reliability. It also avoids customer assistance for a new setting of the end stops.

Setting of the end stops

The programming of the lower end position is made via free positioning.
The upper end position is programmed automatically via a very sensitive torque limit.

Controlling the end stops

The control of the upper end position is realized via a very exact torque limit during each cycle. Changes in the cloth length are detected and compensated if necessary. We can guarantee that the outer end position remains unchanged.

Obstacle detection

The GEIGER SoftPlus-Qi has an obstacle detection in UP direction.

Gerhard Geiger GmbH & Co. KG | 100W1513 EN 0223 | Subject to technical modifications

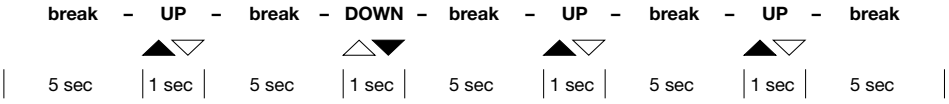
Quick installation guide

Programming the end positions

❶ Connect the connecting cable of the motor to the control switch.
❷ Move the awning to the required lower end position. Any adjustment can be realized here.
❸ Move the awning to the upper position without any interruptions until the motor shuts down. (torque detection). The programming procedure is then completed and the motor returns to normal operating mode.

Change the end positions

❶ Extend the awning and activate the learning mode. For this purpose retract the awning for 1 second, wait 5 seconds, extend the awning for 1 second, wait 5 seconds, retract the awning for 1 second, wait 5 seconds, retract again the awning for 1 second and wait 5 seconds.



The motor always starts with a jerk when the learning mode is activated.

❷ Move the awning to the new lower end position. Any adjustment can be realized here.

❸ Move the awning to the upper end position without interruptions until the motor automatically shuts down. (torque detection). The programming procedure is then completed and the motor returns to normal operating mode.

Note: The motor can be programmed with any setting cable which allows a simultaneous UP and DOWN command. The learning mode is activated by pressing simultaneously the UP and DOWN keys.

SOLIDline-SOC

SOLIDline-COM

Motor series SOLIDline

The GEIGER SOLIDline motors have been developed for the specific needs of the sun protection industry and the craft trade. The motor is characterized by:

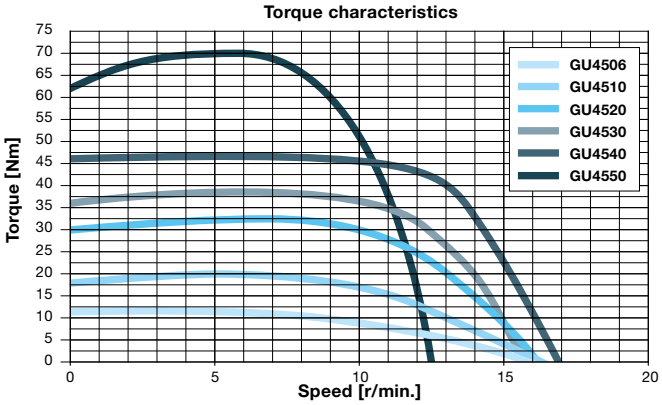
- Low noise emissions and extremely smooth operation
- Low power consumption and reduced operating costs
- Long service life and high reliability

SOLIDline motor heads

All SOLIDline motors are available with 2 different motor heads:

- The **SOC motor head** is optimally designed for installation with star shaped fixation systems. The motor head is universally applicable in the rolling shutter area also together with traditional fastening systems.
- The extremely thin **COM motor head** offers the possibility to optimize the fabric width for screens and facade awnings. The sun protection system can be designed independently from the selected drive. Light slots should be minimized or avoided altogether – as in ZIP screens.

Technical data



Technical data of tubular motor SOLIDline-SOC (GU45..)					
	GU4510	**GU4520**	**GU4530**	**GU4540**	**GU4550**
Voltage	230V~/50Hz				
Current	0,47 A	0,63 A	0,8 A	1,0 A	1,0 A
Cos Phi (cosφ)	>0,95				
Inrush current (factor)	x 1,2				
Power	105 W	140 W	180 W	220 W	220 W
Torque	10 Nm	20 Nm	30 Nm	40 Nm	50 Nm
Speed	16 rpm	16 rpm	16 rpm	16 rpm	12 rpm
Protection class	IP 44				
Total length [l][1)]	519,5 mm	549,5 mm	569,5 mm	589,5 mm	589,5 mm
Operating mode	S2 4 min	S2 5 min	S2 4 min	S2 4 min	S2 4 min
Sound pressure level[2)]	39 dB(A)	41 dB(A)	41 dB(A)	43 dB(A)	-
Diameter	45 mm				
Weight	ca. 1,90 kg	ca. 2,20 kg	ca. 2,40 kg	ca. 2,70 kg	ca. 2,70 kg
Air humidity	dry and non-condensing place				
Storage temperature	T = -15°C .. +70°C				

[1)] SOLIDline-COM + 0,5 mm

[2)] 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.

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

Today we are with about 250 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.

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