



Product Datasheet

GEIGER-SOLIDline ../55 – sun protection at high speed ...



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Problem and solution

Comfort

PROBLEM:

The sun is shining and it takes quite a few minutes until the sun protection device is extended. Much too slow!

SOLUTION:

The **GEIGER-SOLIDline ../55** triples the speed of your sun protection system. The end position is reached in no time.

Safety during high wind conditions

PROBLEM:

The wind sensor sends an alarm message to the sun protection system. As a result of global climate changes, the wind can pop up without much warning and the conventional motors are not fast enough to retract the fabric in time.

SOLUTION:

The **GEIGER-SOLIDline ../55** reduces the extension/retraction times of your sun protection system to less than a third. The textile sun protection can be retracted more quickly than with traditional motors.

This may have unpleasant consequences such as:

- Damaged cloth
- Motor shutdown

Safety: DIN EN 13659

In accordance with DIN EN 13659, the speed of the hanging should reach max. 0,2 m/s in the squeezing zone, i.e. before reaching the lower/ upper end positions.

When meeting an obstacle in this area, the maximum power to be transmitted should not exceed 150 N.

We therefore recommend to operate high speed motors exclusively in connection with roller tubes of maximum 78 mm diameter.

Depending on the selected fabric type – thickness, length, weight – and the weight of the final rail, smaller roller tubes can also be applied.

This should be checked before bringing into service.

Trend towards speed

Speed makes the difference.

The **GEIGER-SOLIDline .. /55** offers a real alternative to the current standard motors for sun protection devices. Rely on the “new high speed” of the **GEIGER-SOLIDline .. /55**. Distributors and wholesalers now have the opportunity to distance themselves from the „standard range“.

Made by GEIGER

GEIGER relies on Germany as production location: the **GEIGER-SOLIDline .. /55**, like all GEIGER motors, are 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 which means a longer period of time for adjustment purposes**
- ▶ **high quality radio system**

■ Concept + Features

Characteristics of the **GEIGER-SOLIDline**:

- ▶ **Three rotation speeds are available**

55 rpm

99 rpm

134 rpm

- ▶ **Same design features as the GEIGER-SOLIDline range**
- ▶ **All SOLIDline fixation systems are adaptable**

All GEIGER tubular motor controls are applicable

Mechanical	Electronic	Electronic with radio controls
Touch ¹⁾	Easy	VariousWireless
	SoftZero	SoftZeroWireless-55

¹⁾ not with **SOLIDline-ZN**

* Special motor controllers on request

■ Application

GEIGER-SOLIDline main application areas:

- textile sun protection (vertical awnings, window awning blinds, ZIP systems)
 - ▶ **GEIGER-SOLIDline with 16/55 rotations per minute**
- Mechanical and plant engineering / Specials
 - ▶ **GEIGER-SOLIDline with 99/134 rotations per minute**

Dimensions + Technical Data

Specifications series SOLIDline (GU45..) with 55 rpm				
	GU4503/55	GU4506/55	GU4509/55	GU4512/55
Voltage	230V~/50Hz	230V~/50Hz	230V~/50Hz	230V~/50Hz
Current	0,47 A	0,63 A	0,8 A	1,0 A
Cos Phi (cosφ)	>0,95	>0,95	>0,95	>0,95
Inrush current (factor)	x 1,2	x 1,2	x 1,2	x 1,2
Power	105 W	140 W	180 W	220 W
Torque	3 Nm	6 Nm	9 Nm	12 Nm
Speed of rotation	55 rpm	55 rpm	55 rpm	55 rpm
Protection type	IP 44	IP 44	IP 44	IP 44
Operating type	S2 4 min	S2 5 min	S2 4 min	S2 4 min
Total length¹⁾	515,5 mm	545,5 mm	565,5 mm	585,5 mm
Length to adapter [c]	498,5 mm	528,5 mm	548,5 mm	568,5 mm
Weight	approx. 1,9 kg	approx. 2,2 kg	approx. 2,4 kg	approx. 2,7 kg

Specifications series SOLIDline (GU45..) with 99 rpm			
	GU4502/99	GU4505/99	GU4507/99
Voltage	230V~/50Hz	230V~/50Hz	230V~/50Hz
Current	0,47 A	0,80 A	1,00 A
Cos Phi (cosφ)	>0,95	>0,95	>0,95
Inrush current (factor)	x 1,2	x 1,2	x 1,2
Power	105 W	180 W	220 W
Torque	2 Nm	5 Nm	7 Nm
Speed of rotation	99 rpm	99 rpm	99 rpm
Protection type	IP 44	IP 44	IP 44
Operating type	S2 4 min	S2 4 min	S2 4 min
Total length¹⁾	515,5 mm	565,5 mm	585,5 mm
Length to adapter	498,5 mm	548,5 mm	528,5 mm
Weight	approx. 1,9 kg	approx. 2,4 kg	approx. 2,7 kg

Specifications series SOLIDline (GU45..) with 134 rpm		
	GU4502/134	GU4505/134
Voltage	230V~/50Hz	230V~/50Hz
Current	0,63 A	1,00 A
Cos Phi (cosφ)	>0,95	>0,95
Inrush current (factor)	x 1,2	x 1,2
Power	140 W	220 W
Torque	2 Nm	5 Nm
Speed of rotation	134 rpm	134 rpm
Protection type	IP 44	IP 44
Operating type	S2 5 min	S2 4 min
Total length¹⁾	545,5 mm	585,5 mm
Length to adapter	498,5 mm	528,5 mm
Weight	approx. 2,2 kg	approx. 2,7 kg

¹⁾ SOLIDline-COM: + 3,5 mm / SOLIDline-SOC: + 3 mm / SOLIDline-SIL: ± 0 mm (without trunnion)

Subject to technical modifications



SOLIDline motor heads

All **SOLIDline** motors are available with four different motor heads:

- The extremely narrow **KS motor head** made of plastic is best suited for all GEIGER fixation systems in order to provide quick and easy assembly/disassembly with low space requirement.
- The extremely thin **COM motor head** – the cloth can also be wound on the 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.
- 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.
- With the **SIL motor head** GEIGER has found a new solution in order to prevent noise emissions. Due to special bearings with rubber inserts noise and vibration are not transmitted in the system and the masonry.

Information

Please note:

Limitation of use in standard sun protection systems

For applications in the sun protection area (vertical awnings, etc.) the motors can only be used with 55 rpm. Higher speeds are not appropriate for these classical applications.

Safety: DIN EN 13659

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We therefore recommend to operate high speed motors exclusively in connection with roller tubes of maximum 78 mm diameter. Depending on the selected fabric type – thickness, length, weight - and the weight of the final rail, smaller roller tubes can also be applied. This should be checked before bringing into service.

Noise emission

The dynamic conditions in sun protection devices change when switching from tubular motors with about 17 rpm to the **GEIGER-SOLIDline** motors with 55 rpm. Therefore, before using the sun protection device, please ensure that you especially check the noise emissions in the guide rails and when reaching the end stops (for motor controls with torque shut-off).

Applicable motor controls

The Easy and Various wireless motor controls are optimal for use with the **SOLIDline series** (55 rpm). All other motor controls should be tested before application with sunscreen products.



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

Today we are with more than 300 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.

