

Sonessa® ULTRA 50 DC RS485

Square Head Motor

504A8 1134022

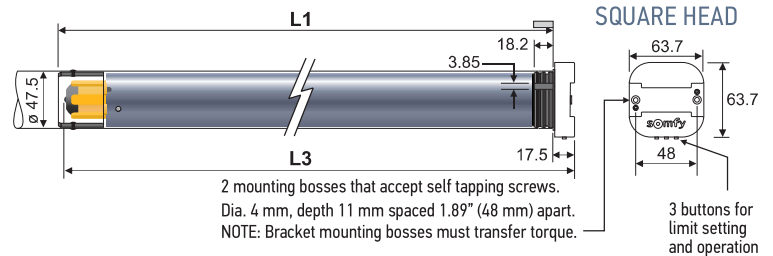


A new generation of intelligent motors that are controlled and monitored via Somfy Digital Network™ (SDN) solutions and animeo® IP total solar management system.

Technical Features

Voltage Supply	24V DC
Index Protection Rating	IP 20 (interior use)
Limit Switch Type	Electronic
Limit Switch Capacity	38 Turns
Temperature Working Range	32°F to 140°F (0°C to 60°C) (interior use only)
Insulation Class	Class 3
Wiring	In accordance with NEC and local electrical codes.
Power Supply	Use only Somfy's power supplies to maintain UL listing requirements and guarantee motor's performance.

Dimensions



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L1	30.7 in. (780 mm)
L3	31.5 in. (800 mm)
Data & Power Cable Length	10 in. (250 mm)

Specifications

- * Minimum Torque:** Minimum application weight to ensure smooth operation.
- ** Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

Fabrication Recommendations:

- Operational noise level is reduced when the motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor.
- Due to the variances of standard aluminum extrusion tolerances, it is recommended to screw the drive wheel & pin end to immobilize them and ensure quiet performance throughout the life of the product.
- Interior Tube Diameter (ID) > 47 mm must be respected.
- A motor crown adaptor between motor and end product tube is required to ensure concentric operation of the motor.
- 500 Series Drive Stop and Screw (9910004) is recommended to prevent noise and drive wheel separation from the motor shaft. This drive stop screw must be tightened with a torque ranging between 1.5Nm and 1.8Nm.
- Somfy Soft Clip Drive Wheel Adaptors (brown in color) are not recommended.

Torque	4 Nm
* Minimum Torque	0.4 Nm
Nominal Voltage	24V DC
Rated Current	1.5A
Speed	10-25 Adjustable
Thermal Protection	5 minutes
** Sound Level	≤ 38 dBA



Pigtail: Data and Power (Included with every motor. Also available separately, part # 9020004).

<p>JST to Motor</p> <p>G + NC V- V+</p>	<p>Weidmuller Connects to Network</p> <p>V+ V- + G</p>	<p>Cable Detail View</p>	<p>Connector Markings Detail View</p>	<p>Maximum Power Cable Length (to guarantee characteristics)</p> <table border="1"> <thead> <tr> <th>GAUGE</th> <th>LENGTH</th> </tr> </thead> <tbody> <tr> <td>14 AWG</td> <td>240 ft.</td> </tr> <tr> <td>16 AWG</td> <td>150 ft.</td> </tr> <tr> <td>18 AWG</td> <td>100 ft.</td> </tr> </tbody> </table>	GAUGE	LENGTH	14 AWG	240 ft.	16 AWG	150 ft.	18 AWG	100 ft.
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Visit somfypro.com/sdn-2-0 for complete information on SDN 2.0 Bus Distribution Products.