

Sonessa® ULTRA 50 DC RS485

Square Head Motor

504A8 1134022

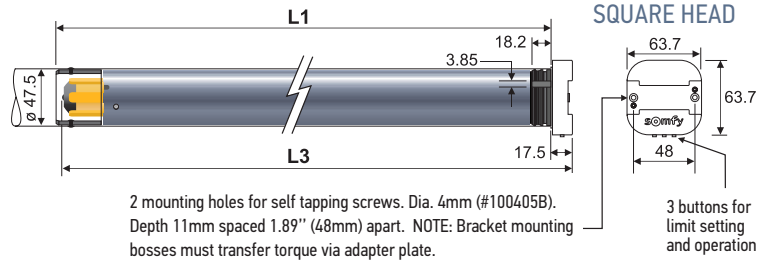


A new generation of intelligent motors that are controlled and monitored via Somfy Digital Network solutions and animeo® IP total solar management system.

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



Dimensions

| | |
|---------------------------|-------------------|
| 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 1.5 Nm and 1.8 Nm.
- 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 | Adjustable: 10-25 rpm (default: 25) |
| Thermal Protection | 5 minutes |
| ** Sound Level | ≤ 38 dBA |



Pigtail: Data and Power (Included with every motor. Also available separately, power and data pigtail (#9020004) or 5 position motor connector (#9020743) only.

Weidmuller Connects to Network

Cable Detail View

JST to Motor

Connector Markings Detail View

For detailed wiring go to page 19.

Maximum Power Cable Length (to guarantee characteristics)

| GAUGE | LENGTH |
|--------|---------|
| 14 AWG | 240 ft. |
| 16 AWG | 150 ft. |
| 18 AWG | 100 ft. |

Visit somfysystems.com/sdn-2-0 for complete information on SDN 2.0 Bus Distribution Products.

Part # 9020743