

# Sonessa® ULTRA 50 DC RS485

Square Head Motor

504A8 1134022

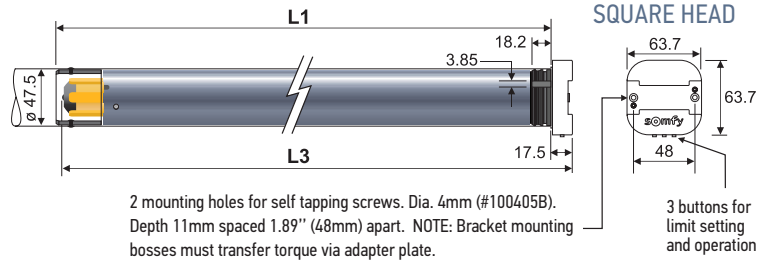


A new generation of intelligent motors that are controlled and monitored via Somfy Digital Network solutions and animeo® IP total solar management system.

## Technical Features

<b>Voltage Supply</b>	24V DC
<b>Index Protection Rating</b>	IP 20 (interior use)
<b>Limit Switch Type</b>	Electronic
<b>Limit Switch Capacity</b>	38 Turns
<b>Temperature Working Range</b>	32°F to 140°F (0°C to 60°C) (interior use only)
<b>Insulation Class</b>	Class 3
<b>Wiring</b>	In accordance with NEC and local electrical codes.
<b>Power Supply</b>	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.

Part # 9020743

Maximum Power Cable Length (to guarantee characteristics)

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