

# Sonesse® ULTRA 50 DC RTS Square Head Motor

504A8 1134023



Somfy  
DESIGNED FOR  
SILENCE



Radio Technology Somfy®  
Offers control via  
Radio Technology  
Somfy® (RTS)

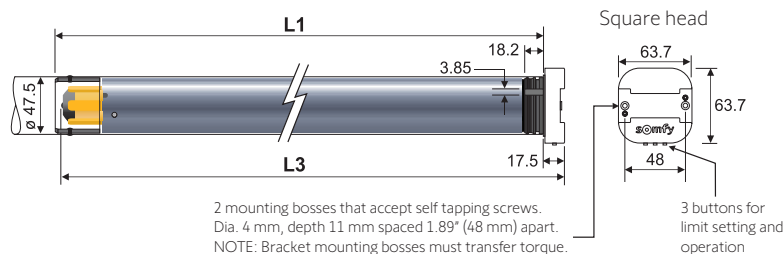
## Technical Features

Voltage Supply	New feature that allows for advanced programming and grouping.
Voltage Supply	24V DC
Index Protection Rating	IP 20 (interior)
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

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



## Specifications

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

### \*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.



## Pigtail power cable (Included with every motor. Also available separately, part # 9020004)

JST to Motor

Weidmuller Connects to Network

Cable Detail View

Connector Markings Detail View

Font: Ariel  
Height: 2.3 mm  
Color: Black

Maximum Power Cable Length (to guarantee characteristics)

Gauge	Length
14 AWG	240 ft.
16 AWG	150 ft.
18 AWG	100 ft.

## Certifications



© Somfy Systems, Inc. • NOVEMBER 2023

www.somfypro.com