

# Soness® ULTRA 50 RS485

Star Head Motor

506A2 1002566



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

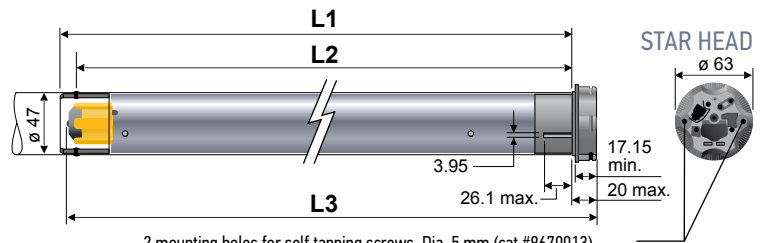
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 31 (interior)
<b>Limit Switch Type</b>	Electronic
<b>Limit Switch Capacity</b>	300 Turns
<b>Temperature Working Range</b>	32°F to 140°F (0°C to 60°C) (interior use only)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Parallel wiring allowed in accordance with NEC and local electrical codes.

## Specifications

<b>Torque</b>	6 Nm
<b>* Minimum Torque</b>	0.4 Nm
<b>Nominal Voltage</b>	120V / 60Hz
<b>Rated Current</b>	.95A
<b>Speed</b>	24 rpm
<b>Thermal Protection</b>	4 minutes
<b>**Sound Level</b>	≤ 38 dBA



## Dimensions



2 mounting holes for self tapping screws. Dia. 5 mm (cat #9670013).  
Depth 13 mm spaced 1.89" (48 mm) apart.

### Dimensions

<b>L1</b>	33.0 in. (838 mm)
<b>L2</b>	32.5 in. (825 mm)
<b>L3</b>	33.6 in. (853 mm)
<b>SJTW Power Cable Length</b>	9.8 ft. (3 m)
<b>Data Cable (must be ordered separately)</b>	Customizable and available in various lengths

**Optional cables with NEMA plugs available in 3 ft, 6 ft, 10 ft, 12 ft, 18 ft, 24 ft.**

## Type of power cable



**\* Minimum Torque:** Minimum application weight to ensure smooth operation.

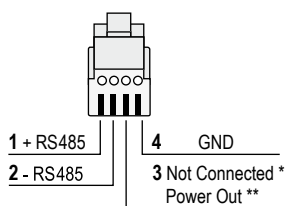
**\*\* Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### Fabrication Recommendations:

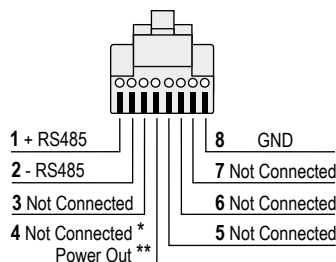
- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor. Due to the variances of standard aluminum extrusion 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 motor.
- 500 Series Drive Stop and Screw (9910004) is recommended to prevent noise and drive wheel separation from 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.

## Data Cable: RJ9/RJ45 (sold separately)

### RJ9 connects to motor



### RJ45 connects to network



### 4 Cond. 26AWG modular cable with RJ9 on one end and RJ45 other end - (RTS, Z-Wave®, ZigBee modules)

<b>GREY WITH POWER OUT</b>	2.5 ft. long	#9018545
	8 ft. long	#9018546
	12 ft. long	#9018547
	24 ft. long	#9018548

### 4 Cond. 26AWG modular cable with RJ9 on one end and RJ45 other end - (SDN - animeo IP)

<b>BLACK WITHOUT POWER OUT</b>	2.5 ft. long	#9018541
	8 ft. long	#9018542
	12 ft. long	#9018543
	24 ft. long	#9018544

\* Data cable (black) for animeo IP networks

\*\* Data cable (grey) for powering external modules

Visit [somfy.com/sdn-2-0](http://somfy.com/sdn-2-0) for complete information on SDN 2.0 Bus Distribution Products.

