

# Sonesse® 50 RS485

Star Head Motor

**506S2** 1002286  
**510S2** 1002287



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

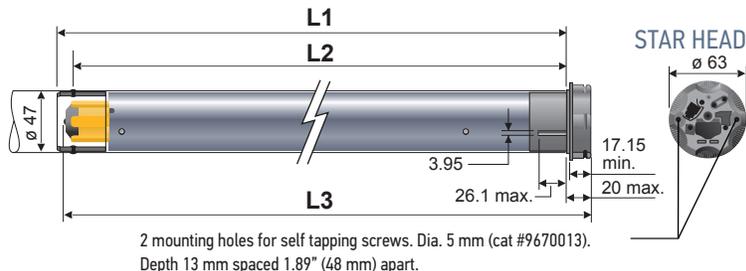
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 44 (interior & exterior use)
<b>Limit Switch Type</b>	Electronic
<b>Limit Switch Capacity</b>	300 Turns
<b>Temperature Working Range</b>	-4°F to 158°F (-20°C to 70°C) (interior and exterior use)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Parallel wiring allowed in accordance with NEC and local electrical codes.

## Specifications

	506	510
<b>Torque</b>	6 Nm	10 Nm
<b>Nominal Voltage</b>	120V / 60Hz	120V / 60Hz
<b>Rated Current</b>	1.2A	1.66A
<b>Speed</b>	32 rpm	32 rpm
<b>Thermal Protection</b>	4 minutes	4 minutes
<b>*Sound Level</b>	≤ 45 dBA	≤ 47 dBA



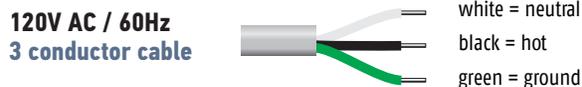
## Dimensions



Dimensions	506	510
<b>L1</b>	25.7 in. (653 mm)	26.5 in. (673 mm)
<b>L2</b>	25.2 in. (640 mm)	26.0 in. (660 mm)
<b>L3</b>	26.2 in. (666 mm)	27.0 in. (686 mm)
<b>SJTW Power Cable Length</b>	9.8 ft. (3 m)	9.8 ft. (3 m)
<b>Data Cable (must be ordered separately)</b>	Customizable and available in various lengths	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



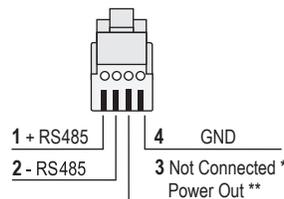
**\*\* Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### 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.
- 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.
- Somfy Soft Clip Drive Wheel Adaptors (brown in color) are not recommended.

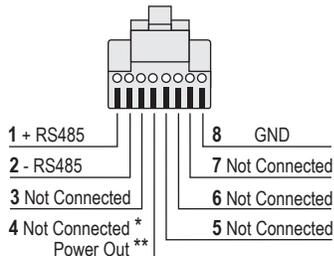
## Data Cable: RJ9/RJ45 (sold separately)

### RJ9 connects to motor



\* Data cable (black) for animeo IP networks  
\*\* Data cable (grey) for powering external modules

### RJ45 connects to network



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

GREY WITH POWER OUT	Length	Part #
	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)

BLACK WITHOUT POWER OUT	Length	Part #
	2.5 ft. long	#9018541
	8 ft. long	#9018542
	12 ft. long	#9018543
	24 ft. long	#9018544

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