

# Sonesse® 50 RA

Star Head and Round Head Motors (rapid limit adjustment)



Offers control via power switching

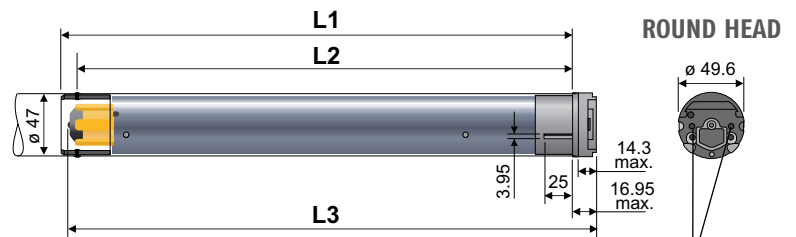
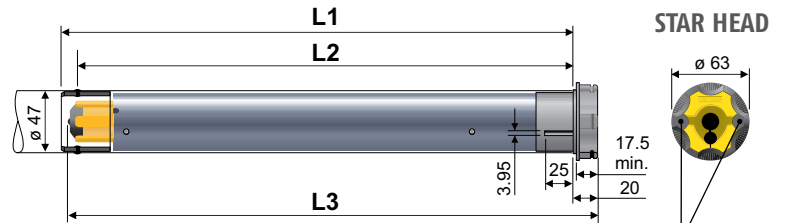
<b>504S2</b> 1030061	<b>504S2RH</b> 1030062
<b>506S2</b> 1001814	<b>506S2RH</b> 1001812
<b>510S2</b> 1001813	<b>510S2RH</b> 1001810



## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	504 - IP 31 (interior use) 506/510 - IP 44 (interior & exterior use)
<b>Limit Switch Type</b>	Rapid Adjustment RA
<b>Limit Switch Capacity</b>	46 Turns
<b>Temperature Working Range</b>	504: 32°F to 140°F (0°C to 60°C) Interior use 506/510: -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>	Do not parallel wire

## Dimensions



## Specifications

	504	506	510
<b>Torque</b>	4 Nm	6 Nm	10 Nm
<b>Nominal Voltage</b>	120V / 60Hz	120V / 60Hz	120V / 60Hz
<b>Rated Current</b>	.95A	1.2A	1.67A
<b>Speed</b>	32 rpm	32 rpm	32 rpm
<b>Thermal Protection</b>	4 minutes	4 minutes	4 minutes
<b>*Sound Level</b>	≤ 44 dBA	≤ 44 dBA	≤ 47 dBA

Dimensions	504	506	510
<b>L1</b>	20.03 in (712 mm)	23.7 in (603 mm)	23.7 in (603 mm)
<b>L2</b>	27.60 in (701 mm)	23.2 in (590 mm)	23.2 in (590 mm)
<b>L3</b>	SH 28.58 in (726 mm) RH 28.46 in (723 mm)	SH 24.3 in (616 mm) RH 24.1 in (613 mm)	SH 24.3 in (616 mm) RH 24.1 in (613 mm)
<b>Cable Length</b>	6.5ft (2 m)	6.5ft (2 m)	6.5ft (2 m)

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

### \*Sound Level:

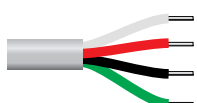
Sound level measured at 3 feet from end product at maximum rated torque.

### 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) > 47mm must be respected.
- A motor crown adapter 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 Adapters (brown in color) are not recommended.

## Type of power cable

**Wired**  
**120V AC / 60Hz**  
**4 conductor cable**



white = neutral  
red = direction 1  
black = direction 2  
green = ground

# Sonesse® 50 RTS

Star Head and Round Head Motors



<b>504S2</b> 1030065	<b>504S2RH</b> 1030066
<b>506S2</b> 1001809	<b>506S2RH</b> 1001806
<b>510S2</b> 1001807	<b>510S2RH</b> 1001805

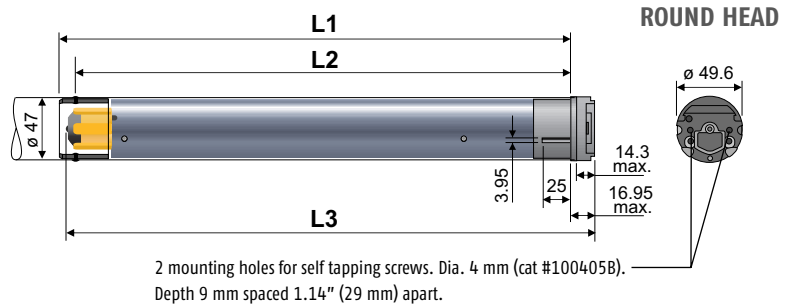
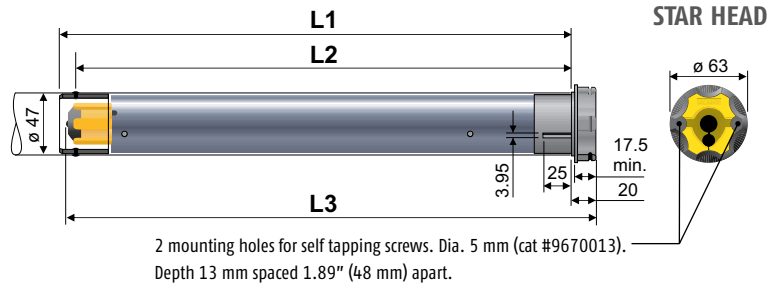


Radio Technology Somfy® (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	504 - IP 31 (interior use) 506/510 - IP 44 (interior & exterior use)
<b>Limit Switch Type</b>	Electronic RTS
<b>Limit Switch Capacity</b>	250 Turns
<b>Temperature Working Range</b>	504: 32°F to 140°F (0°C to 60°C) Interior use 506/510: -4°F to 158°F (-20°C to 70°C) Interior and exterior use
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Antenna</b>	Integrated into power cord. Power cord must be at least 12 inches and must not come in contact with metal
<b>Wiring</b>	Parallel wiring allowed in accordance with NEC and local electrical codes

## Dimensions



## Specifications

	<b>504</b>	<b>506</b>	<b>510</b>
<b>Torque</b>	4 Nm	6 Nm	10 Nm
<b>Nominal Voltage</b>	120V / 60Hz	120V / 60Hz	120V / 60Hz
<b>Rated Current</b>	.95A	1.2A	1.67A
<b>Speed</b>	32 rpm	32 rpm	32 rpm
<b>Thermal Protection</b>	4 minutes	4 minutes	4 minutes
<b>Radio Frequency</b>	433.42 MHz	433.42 MHz	433.42 MHz
<b>*Sound Level</b>	≤ 44 dBA	≤ 44 dBA	≤ 47 dBA

<b>Dimensions</b>	<b>504</b>	<b>506</b>	<b>510</b>
<b>L1</b>	30.83 in (783 mm)	25.7 in (653 mm)	25.7 in (653 mm)
<b>L2</b>	30.31 in (770 mm)	25.2 in (640 mm)	25.2 in (640 mm)
<b>L3</b>	SH 31.34 in (796 mm) RH 31.22 in (793 mm)	SH 26.2 in (666 mm) RH 26.1 in (663 mm)	SH 26.2 in (666 mm) RH 26.1 in (663 mm)
<b>Cable Length</b>	6.5ft (2 m)	6.5ft (2 m)	6.5ft (2 m)

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

### \*Sound Level:

Sound level measured at 3 feet from end product at maximum rated torque.

### 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) > 47mm must be respected.
- A motor crown adapter 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 Adapters (brown in color) are not recommended.

## Type of power cable

**RTS**  
**120V AC / 60Hz**  
**3 conductor cable**



# Sonessé® 50 RS485

Star Head Motor



50652 1002286  
501052 1002287



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

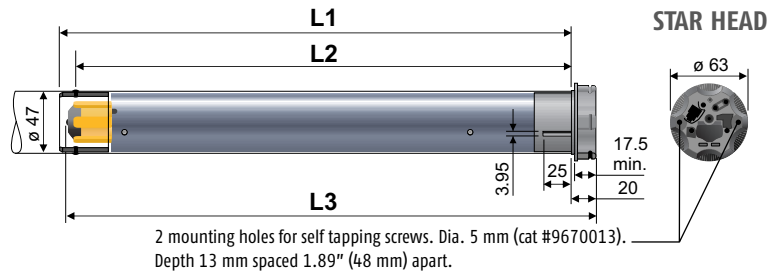
## Technical Features

<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>	≤ 44 dBA	≤ 47 dBA

## Dimensions

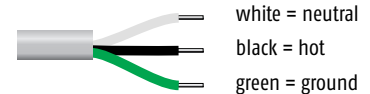


Dimensions	506	510
<b>L1</b>	25.7 in (653 mm)	26.5 in (673 mm)
<b>L2</b>	25.2 in (640 mm)	26.0 in (660 mm)
<b>L3</b>	26.2 in (666 mm)	27.0 in (686 mm)
<b>SJTW Power Cable Length</b>	9.8 ft (3 m)	9.8 ft (3 m)
<b>Data Cable (must be ordered separately)</b>	Customizable and available in various lengths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

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

## Type of power cable

120V AC / 60Hz  
3 conductor cable



### \*Sound Level:

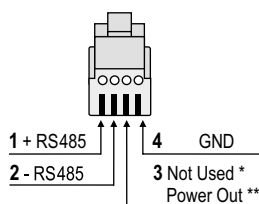
Sound level measured at 3 feet from end product at maximum rated torque.

### 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) > 47mm must be respected.
- A motor crown adapter 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 Adapters (brown in color) are not recommended.

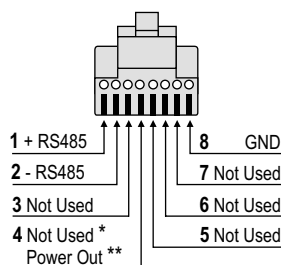
## Data Cable: RJ9/RJ45 (sold separately)

### 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)

Length	Part Number
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)

Length	Part Number
2.5 ft long	#9018541
8 ft long	#9018542
12 ft long	#9018543
24 ft long	#9018544

# Sonesse® ULTRA 50 RS485

Star Head Motor



506A2 1002566



Somfy  
DESIGNED FOR  
SILENCE



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

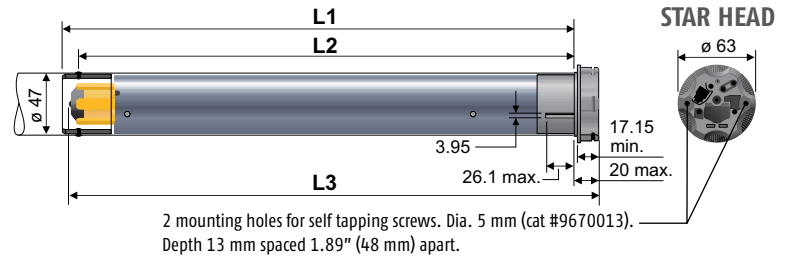
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 31 (interior)
<b>Limit Switch Type</b>	Electronic
<b>Limit Switch Capacity</b>	300 Turns
<b>Temperature Working Range</b>	32°F to 140°F (0°C to 60°C) (Interior use only)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Parallel 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



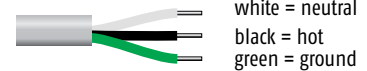
### Dimensions

<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, 12 ft, 18 ft, 24 ft.

## Type of power cable

120V AC / 60Hz  
3 conductor cable



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

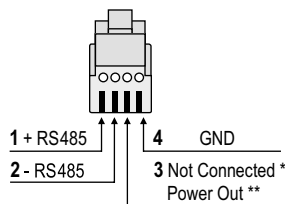
\*\* **Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### Fabrication Recommendations:

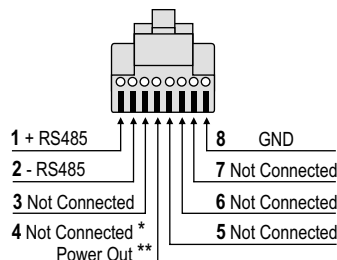
- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor. Due to the variances of standard aluminum extrusion 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.
- 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)

GREY WITH  
POWER OUT

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

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

# Sonesse® ULTRA 50 RS485

Star Head Motor



506A2 1002566



Somfy  
DESIGNED FOR  
SILENCE



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

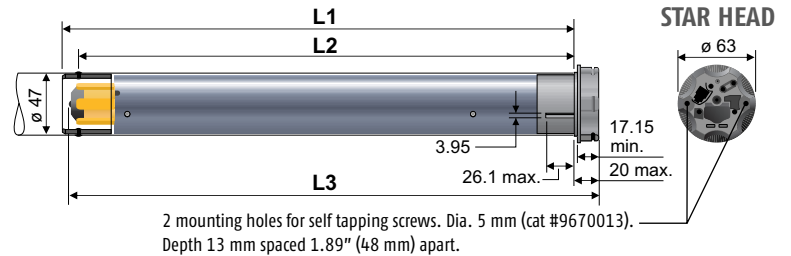
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 31 (interior)
<b>Limit Switch Type</b>	Electronic
<b>Limit Switch Capacity</b>	300 Turns
<b>Temperature Working Range</b>	32°F to 140°F (0°C to 60°C) (Interior use only)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Parallel 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



### 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, 12 ft, 18 ft, 24 ft.

## Type of power cable

120V AC / 60Hz  
3 conductor cable



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

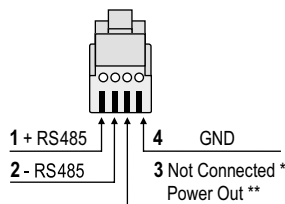
\*\* **Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### Fabrication Recommendations:

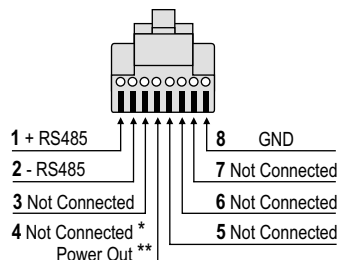
- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor. Due to the variances of standard aluminum extrusion 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.
- 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)

GREY WITH  
POWER OUT

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

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

# Sonesse® ULTRA 50 RTS

Star Head and Round Head Motors



Radio Technology Somfy® (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

506A2 1002562  
506A2RH 1002564



## Technical Features

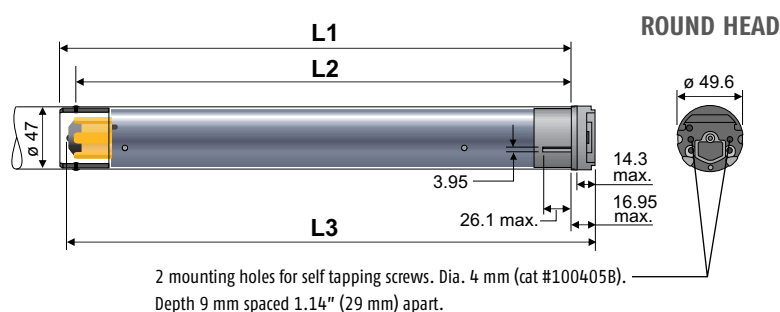
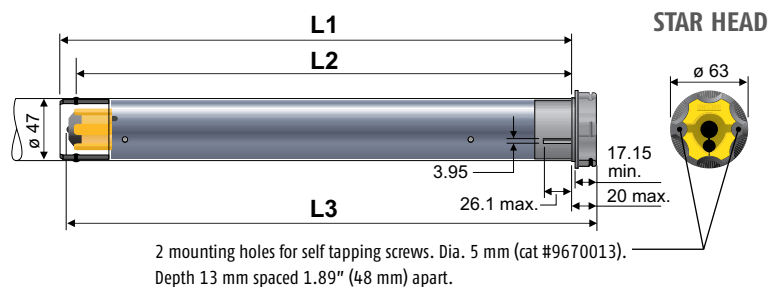
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 31 (interior use)
<b>Limit Switch Type</b>	Electronic RTS
<b>Limit Switch Capacity</b>	250 Turns
<b>Temperature Working Range</b>	32°F to 140°F (0°C to 60°C) (Interior use only)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Antenna</b>	Integrated into power cord. Power cord must be at least 12 inches and must not come in contact with metal.
<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>Radio Frequency</b>	433.42 MHz
<b>** Sound Level</b>	≤ 38 dBA



## Dimensions



### Dimensions

<b>L1</b>	31.8 in (808 mm)
<b>L2</b>	31.3 in (795 mm)
<b>L3</b>	SH 32.4 in (823 mm) RH 32.3 in (820 mm)
<b>SJTW Power Cable Length</b>	9.8ft (3 m)

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

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

## Type of power cable

RTS  
120V AC / 60Hz  
3 conductor cable



white = neutral  
black = hot  
green = ground