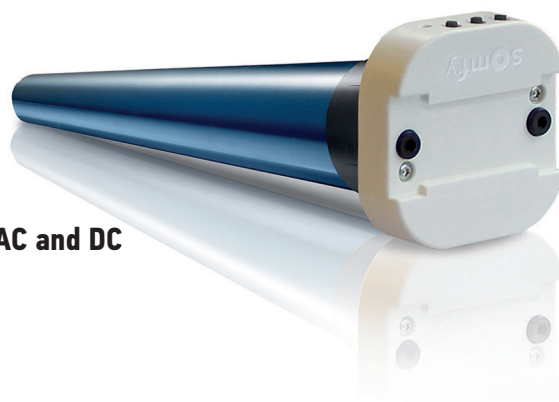
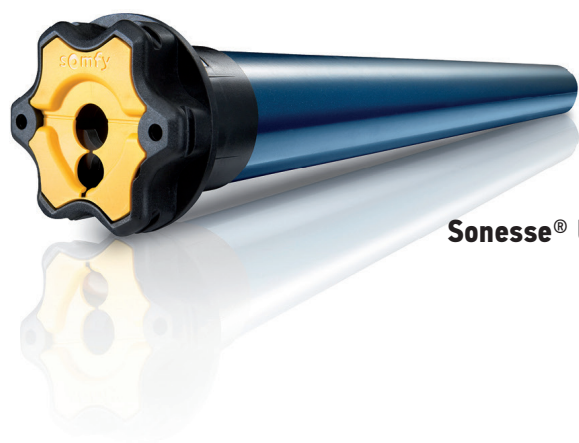


**500 Series**

# Databook



**Somesse® ULTRA 50 AC and DC**

# Why Somfy?

Somfy is the leading global manufacturer of strong, quiet, motors with electronic and app controls for interior and exterior window coverings. Over 270 million users worldwide enjoy the more than 150 million motors produced since 1980. For more than four decades, Somfy engineers have designed products for both the commercial and residential markets to motorize window coverings such as interior shades, wood blinds, draperies, awnings, rolling shutters, exterior solar screens and projection screens. Somfy motorization systems are easily integrated with security, HVAC and lighting systems, providing total home or building automation.

**Somfy has a committed customer support team comprised of Somfy motor and control specialists available for assistance:**

**Somfy Corporate Headquarters**

800-22-SOMFY (76639)

**General Customer Service**

877-210-5327

CustomerService\_us@somfy.com

**Standard Purchase Order**

Ordering\_us@somfy.com

**Rush Purchase Order**

ExpeditedShippingOrders\_us@somfy.com

**Accounting Inquiries**

AccountsReceivable@somfy.com

**Technical Support**

877-233-0019

TechnicalSupport\_us@somfy.com

**Warranty Claim Requests**

us\_Return@somfy.com

- Somfy has a production capacity of more than 70,000 motors per day.
- Somfy motors have over 600 standards approvals worldwide.
- Somfy has certified over 100 patents since the year 2000.
- Every Somfy motor goes through an extensive quality assurance process including testing in extreme environmental conditions, for electrostatic discharge, mechanical shock, and high life cycle.
- Somfy has a network of 15,000 trained professional installers throughout the world.



Somfy operates in 60 countries, with 76 subsidiaries, and 60 agencies spread across 5 continents. With 8 production centers, Somfy is an efficient and reactive industry leader. Thanks to its strict quality standards, Somfy is able to satisfy the needs of over 270 million users worldwide.



Somfy understands that training and support are critical to success. Somfy's Expert Program provides a platform for those who want to enhance their expertise of Somfy motorization and control solutions. Contact Somfy directly or visit [somfysystems.com/expert-program](https://www.somfysystems.com/expert-program) to learn more.

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ZMC® is a registered trademark of ZMC® Window Coverings

Z-Wave® is a registered trademark of Zensys, Inc. and its subsidiaries

ZigBee® is a registered trademark of ZigBee Alliance

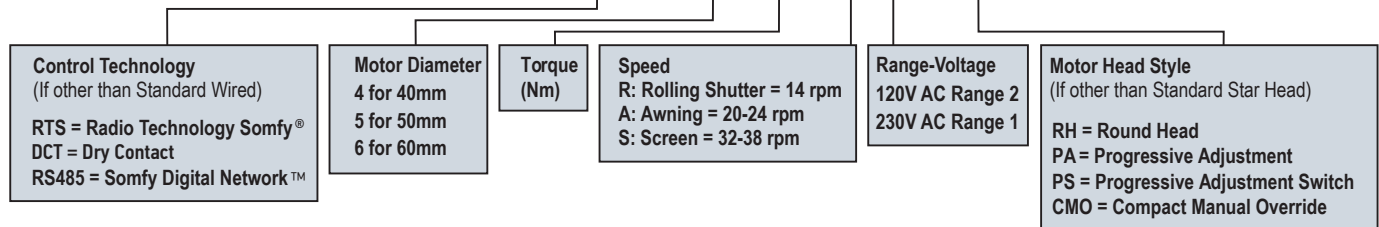
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# Somfy's 500 Series Motor Range

## MOTOR IDENTIFICATION KEY

**Sonesse® RTS 510 S 2 RH**



## SOMFY DESIGNED FOR SILENCE - Quietness Scale



**Somfy**  
DESIGNED FOR  
SILENCE

The Sonesse® range of motors are rated according to their quietness. The volume scale below appears on all Sonesse range specification pages and designates the motor's level of sound output.



## SOMFY TECHNOLOGIES



### Radio Technology Somfy

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



### Wired Technology

Offers control via standard AC switching.



### Dry Contact

Is a dry contact input for a basic low voltage control.

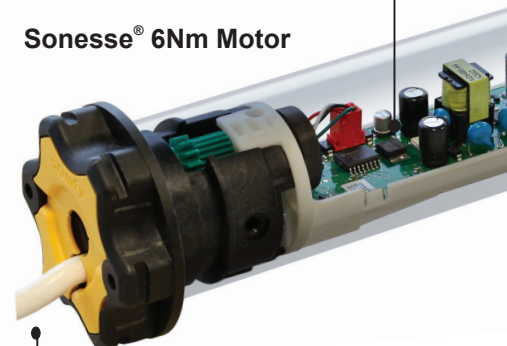


### RS485

RS485 is another control method that uses a two-wired bus. Due to the open source nature of the RS485 protocol, many building management systems and home automation systems use this protocol to communicate to devices. Systems that use the RS485 connection can be programmed to Somfy RS485 motors or controllers to operate the installation.

Electronic Limit Switch  
Unit with Integrated RTS

### Sonesse® 6Nm Motor



Includes Somfy patented antenna that is integrated into the power cord for enhanced reception.



As with all Somfy motors and controls, our motors are backed by a 5 year warranty.



# WHY CHOOSE SOMFY'S SONESSE® RANGE?

## Quiet and Strong:

- Stronger torque for larger applications including multi-banded/ coupled window coverings
- \*Uniform quiet operation in both the up and down directions under 40dBA

## Wide Range of Solutions:

- Interior and exterior applications
- Residential and commercial markets
- RTS, wired and RS485 integrated network options

## Simplified Fabrication and Installation:

- Utilizes existing fabrication methods on the market today
- Compatible with leading industry hardware solutions
- Can be installed in 6 different orientations
- Advanced design enables simple "Snap-On" connection for roller tube adaptors

## Streamlined Programming:

- RTS limits set via radio transmitter
- Wired simple push-button limit setting
- Improved RS485 commissioning process:
  - Motor auto discovery
  - Motor position feedback
  - Compatible with Somfy's animeo® IP system
  - Backward compatibility provides seamless integration with existing Somfy Digital Network projects
  - Multiple intermediate positions
  - Collision detection

## Superior Quality:

- Motors undergo rigorous endurance, acoustic, radio, mechanical, electrical and safety tests in our 65,000 sq. ft. quality control and testing facility
- More than 600 approved standards worldwide
- Manufactured and sold over 150 million motors

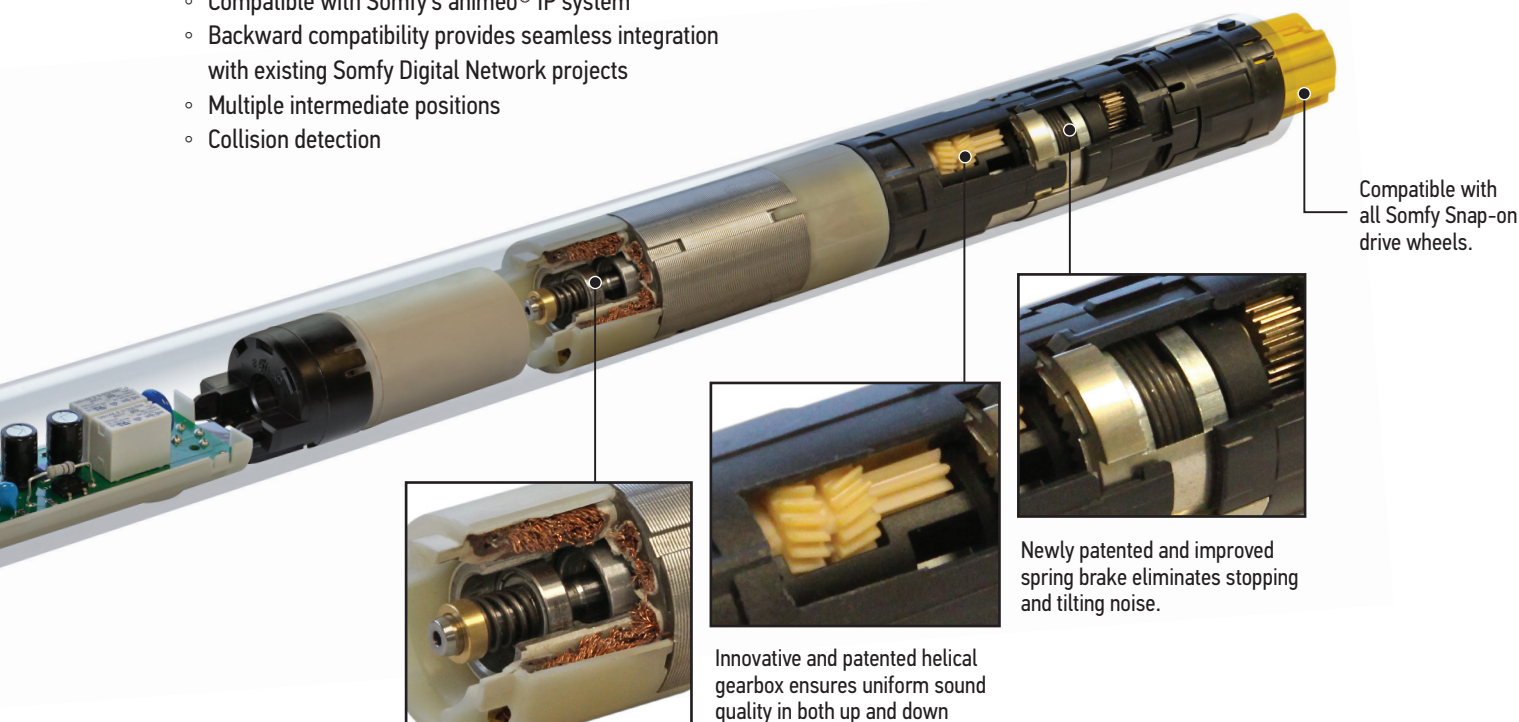
## Simple Electrical Connection:

- Available with UL approved 5 - 15P NEMA plug-in motor cable
- Plug-in option eliminates the need for an electrician
- Motor cable length can be customized to meet your installation requirements.

## All Somfy Motors are UL Listed or Recognized

- All SOMFY motors are UL Listed or Recognized and can be found under the following file numbers:

E514135, E60495, E60888, E63714



A newly patented, asynchronous, high quality, maintenance-free motor that provides perfect rotary part alignment supported by roller bearings.

Innovative and patented helical gearbox ensures uniform sound quality in both up and down directions.

Newly patented and improved spring brake eliminates stopping and tilting noise.

- According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

# Sonesse® ULTRA 50 RA

Star Head and Round Head Motors (rapid limit adjustment)

**506A2** 1002558  
**506A2RH** 1002560



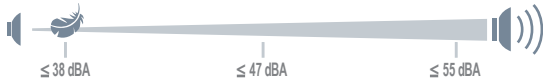
Offers control via power switching

## Technical Features

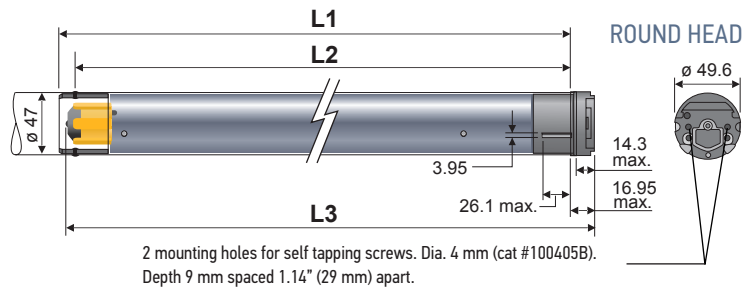
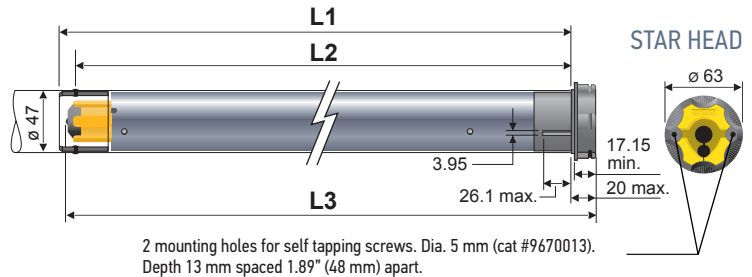
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	506 - IP 31 (interior use)
<b>Limit Switch Type</b>	Rapid Adjustment RA
<b>Limit Switch Capacity</b>	46 Turns
<b>Temperature Working Range</b>	506: 32°F to 140°F (0°C to 60°C) (interior use only)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Do not parallel wire.

## 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>	30.8 in. (783 mm)
<b>L2</b>	30.3 in. (769 mm)
<b>L3</b>	SH 31.4 in. (798 mm) RH 31.3 in. (795 mm)
<b>SJTW Power Cable Length</b>	9.8 ft. (3 m)

Optional 4-conductor cables available in various lengths.  
 Includes Fast Connector and open leads.

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

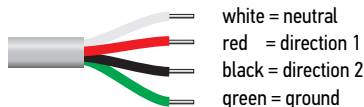
**\*\* Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### 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.

## Type of power cable

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



# Sonesse® 50 RA

## Star Head and Round Head Motors (rapid limit adjustment)

**506S2** 1001814    **506S2RH** 1001812  
**510S2** 1001813    **510S2RH** 1001810



Somfy  
DESIGNED FOR  
SILENCE

CAI<sup>us</sup>



Offers control via power switching

## Technical Features

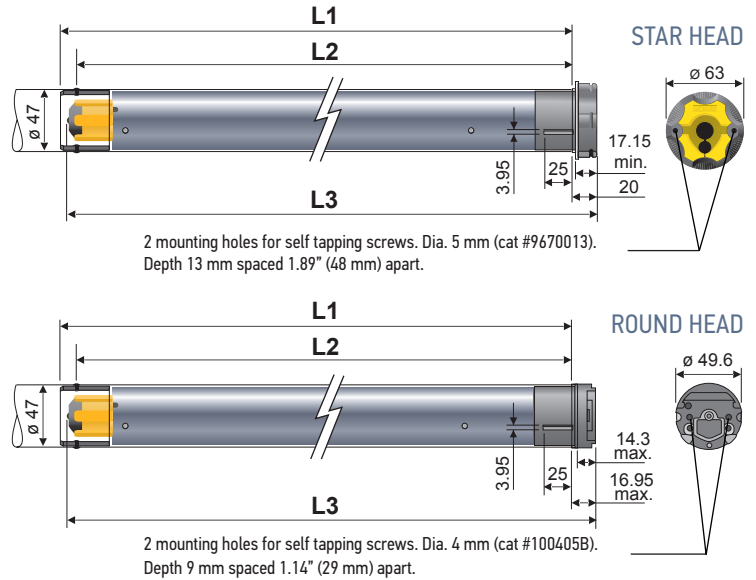
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 44 (interior and exterior use)
<b>Limit Switch Type</b>	Rapid Adjustment RA
<b>Limit Switch Capacity</b>	46 Turns
<b>Temperature Working Range</b>	-4°F to 158°F (-20°C to 70°C) (interior and exterior use)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Do not parallel wire.

## Specifications

	506	510
<b>Torque</b>	6 Nm	10 Nm
<b>Nominal Voltage</b>	120V / 60Hz	120V / 60Hz
<b>Rated Current</b>	1.2A	1.67A
<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>	23.7 in. (603 mm)	23.7 in. (603 mm)
<b>L2</b>	23.2 in. (590 mm)	23.2 in. (590 mm)
<b>L3</b>	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>SJTW Power Cable Length</b>	9.8 ft. (3 m)	9.8 ft. (3 m)

Optional 4-conductor cables available in various lengths.  
Includes Fast Connector and open leads.

### \* Sound Level:

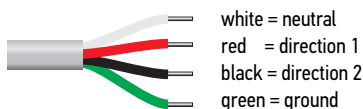
According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### 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.  
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.

## Type of power cable

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



# Sonesse® 50 PA & PS

(Progressive Limit Adjustment)

**506S2PA** 1001801 **506S2PS** 1001800  
**510S2PA** 1002323 **510S2PS** 1002324



Somfy  
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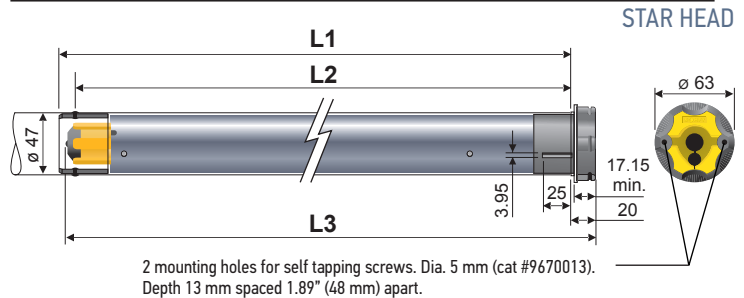


Offers control via  
power switching

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP44 (interior and exterior use)
<b>Limit Switch Type</b>	Progressive Adjustment PA
<b>Limit Switch Capacity</b>	29 Turns
<b>Temperature Working Range</b>	-4°F to 140°F (-20°C to 60°C) (interior and exterior use)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Do not parallel wire.

## Dimensions



Dimensions	506S2PA	506S2PS**	510S2PA	510S2PS**
<b>L1</b>	23.74 in. (603 mm)	23.74 in. (603 mm)	23.74 in. (603 mm)	23.74 in. (603 mm)
<b>L2</b>	23.23 in. (590 mm)	23.23 in. (590 mm)	23.23 in. (590 mm)	23.23 in. (590 mm)
<b>L3</b>	24.25 in. (616 mm)	24.25 in. (616 mm)	24.25 in. (616 mm)	24.25 in. (616 mm)
<b>Cable Length</b>	5 in. (.12 m)	5 in. (.12 m)	5 in. (.12 m)	5 in. (.12 m)

## Specifications

	506S2PA	506S2PS**	510S2PA	510S2PS**
<b>Torque</b>	6 Nm	6 Nm	10 Nm	10 Nm
<b>Nominal Voltage</b>	120V / 60Hz	120V / 60Hz	120V / 60Hz	120V / 60Hz
<b>Rated Current</b>	1.2A	1.2A	1.67A	1.67A
<b>Speed</b>	32 rpm	32 rpm	32 rpm	32 rpm
<b>Thermal Protection</b>	4 minutes	4 minutes	4 minutes	4 minutes
<b>*Sound Level</b>	≤ 45 dBA	≤ 45 dBA	≤ 47.2 dBA	≤ 47.2 dBA

Optional 4-conductor cables available in various lengths. Includes Fast Connector and open leads.



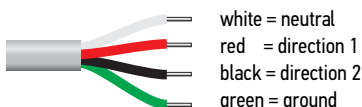
\* **Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### 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 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.

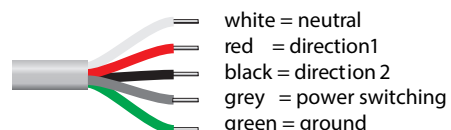
## Type of power cable PA

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



## Type of power cable PS

**Wired**  
**120V AC / 60Hz**  
**5-conductor SJTW cable**



\*\*Progressive Limit Adjustment with external power switching capability when limit is reached.

# Sonesse® ULTRA 50 RTS

Star Head and Round Head Motors

**506A2** 1002562  
**506A2RH** 1002564



Somfy  
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SILENCE



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

## Technical Features

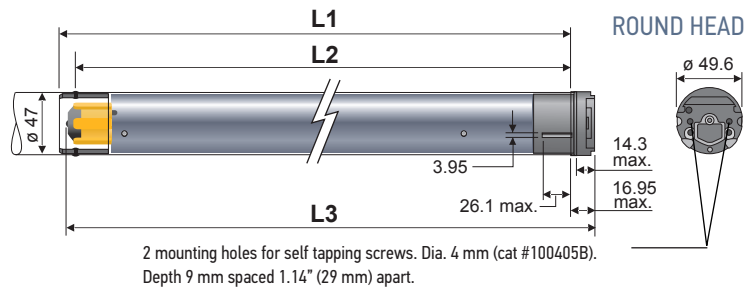
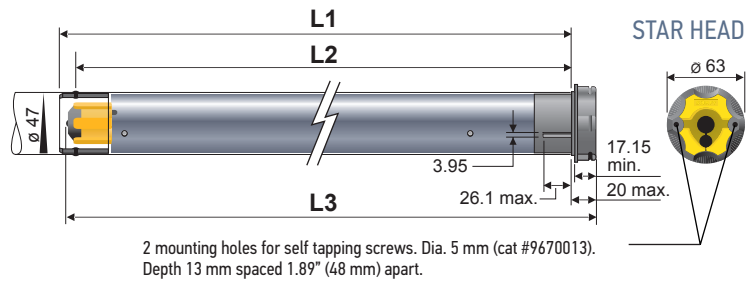
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 31 (interior use)
<b>Limit Switch Type</b>	Electronic RTS
<b>Limit Switch Capacity</b>	250 Turns
<b>Temperature Working Range</b>	32°F to 140°F (0°C to 60°C) (interior use only)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Antenna</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>	9.8 ft. (3 m)

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

**\* 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:

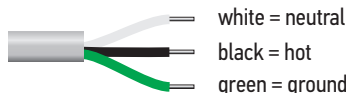
- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor. Due to the variances of standard aluminum extrusion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

## Type of power cable

**RTS**

**120V AC / 60Hz**

**3-conductor SJTW cable**



white = neutral

black = hot

green = ground

# Sonesse® ULTRA 50 DC RTS

## Square Head Motor

504A8 1134023

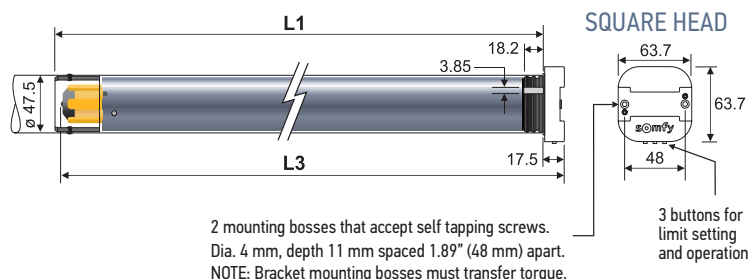


Radio Technology Somfy (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

## Technical Features

<b>NEW Sleep Mode</b>	New feature that allows for advanced programming and grouping.
<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

<b>L1</b>	30.7 in. (780 mm)
<b>L3</b>	31.5 in. (800 mm)
<b>Data &amp; Power Cable Length</b>	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.



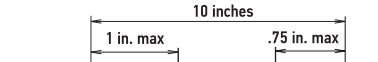
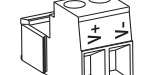
### Fabrication Recommendations:

- 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 1.5Nm and 1.8Nm.
- Somfy Soft Clip Drive Wheel Adaptors (brown in color) are not recommended.

<b>Torque</b>	4 Nm
<b>* Minimum Torque</b>	0.4 Nm
<b>Nominal Voltage</b>	24V DC
<b>Rated Current</b>	1.5A
<b>Speed</b>	10-25 Adjustable
<b>Thermal Protection</b>	5 minutes
<b>** Sound Level</b>	≤ 38 dBA



**Power Pigtail Cable:** (Included with every motor. Also available separately, part # 9020005).

JST to Motor	Weidmuller Connects to Network	Cable Detail View	Connector Markings Detail View	Maximum Power Cable Length (to guarantee characteristics)								
 + -	 + -		Font: Ariel Height: 2.3 mm Color: Black 	<table><tr><th>GAUGE</th><th>LENGTH</th></tr><tr><td>14 AWG</td><td>240 ft.</td></tr><tr><td>16 AWG</td><td>150 ft.</td></tr><tr><td>18 AWG</td><td>100 ft.</td></tr></table>	GAUGE	LENGTH	14 AWG	240 ft.	16 AWG	150 ft.	18 AWG	100 ft.
GAUGE	LENGTH											
14 AWG	240 ft.											
16 AWG	150 ft.											
18 AWG	100 ft.											



# Sonesse® 50 RTS

## Star Head and Round Head Motors

**506S2** 1001809 **506S2RH** 1001806  
**510S2** 1001807 **510S2RH** 1001805



Somfy  
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SILENCE



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

## Technical Features

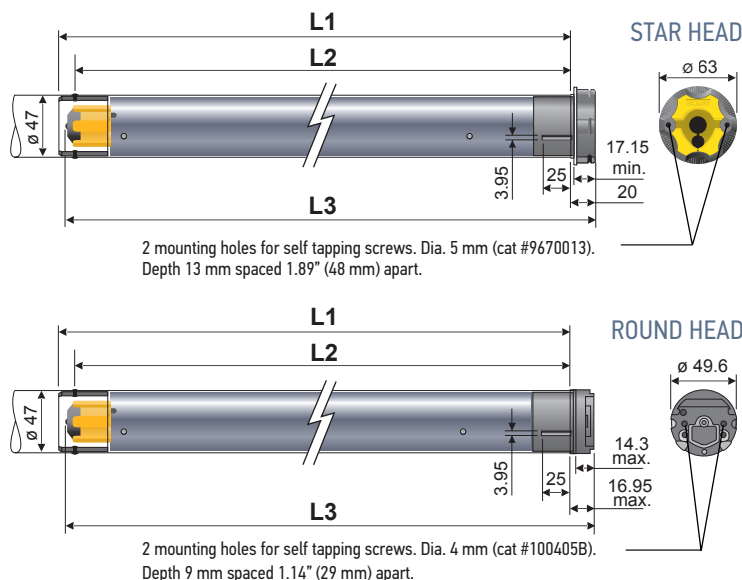
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 44 (interior and exterior use)
<b>Limit Switch Type</b>	Electronic RTS
<b>Limit Switch Capacity</b>	250 Turns
<b>Temperature Working Range</b>	-4°F to 158°F (-20°C to 70°C) (interior and exterior use)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>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

	506	510
<b>Torque</b>	6 Nm	10 Nm
<b>Nominal Voltage</b>	120V / 60Hz	120V / 60Hz
<b>Rated Current</b>	1.2A	1.67A
<b>Speed</b>	32 rpm	32 rpm
<b>Thermal Protection</b>	4 minutes	4 minutes
<b>Radio Frequency</b>	433.42 MHz	433.42 MHz
<b>*Sound Level</b>	≤ 45 dBA	≤ 47 dBA



## Dimensions



Dimensions	506	510
<b>L1</b>	25.7 in. (653 mm)	25.7 in. (653 mm)
<b>L2</b>	25.2 in. (640 mm)	25.2 in. (640 mm)
<b>L3</b>	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>SJTW Power Cable Length</b>	9.8 ft. (3 m)	9.8 ft. (3 m)

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

### \* Sound Level:

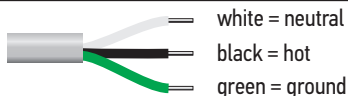
According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### 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.  
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.

## Type of power cable

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





# Soness® ULTRA 50 RS485

Star Head Motor

506A2

1002566



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SILENCE



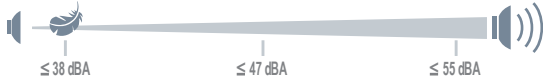
A new generation of intelligent motors that are controlled and monitored via Somfy Digital Network solutions and animeo® IP total solar management system.

## Technical Features

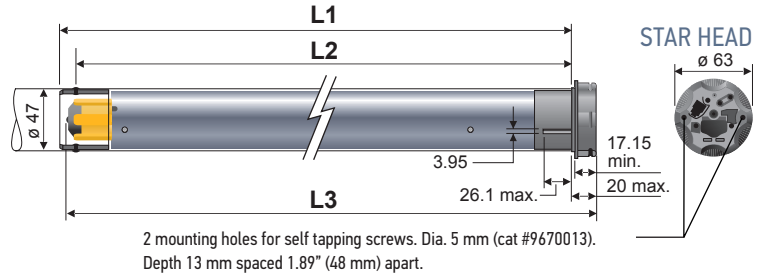
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 31 (interior use)
<b>Limit Switch Type</b>	Electronic
<b>Limit Switch Capacity</b>	300 Turns
<b>Temperature Working Range</b>	32°F to 140°F (0°C to 60°C) (interior use only)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>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

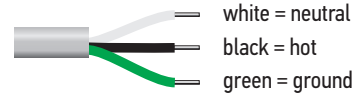
<b>L1</b>	33.0 in. (838 mm)
<b>L2</b>	32.5 in. (825 mm)
<b>L3</b>	33.6 in. (853 mm)
<b>SJTW Power Cable Length</b>	9.8 ft. (3 m)
<b>Data Cable (must be ordered separately)</b>	Customizable and available in various lengths

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

## Type of power cable

120V AC / 60Hz

3-conductor SJTW cable



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

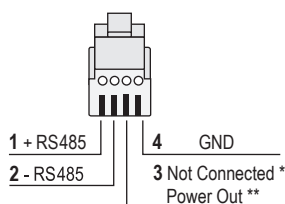
\*\* **Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### Fabrication Recommendations:

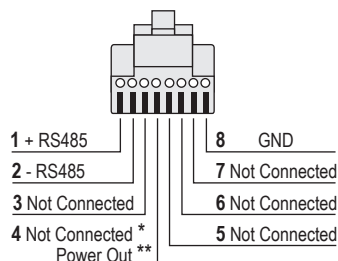
- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor. Due to the variances of standard aluminum extrusion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

#### 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

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

# Soness® ULTRA 50 DC RS485

Square Head Motor

504A8

1134022



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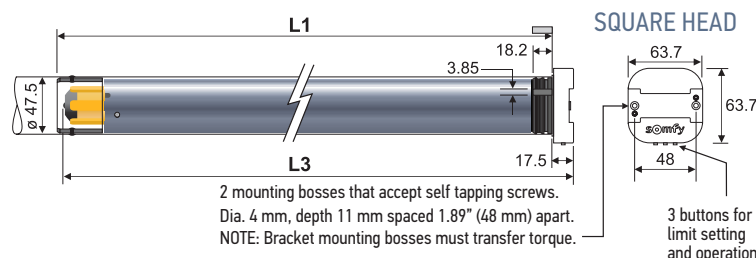


A new generation of intelligent motors that are controlled and monitored via Somfy Digital Network solutions and animeo® IP total solar management system.

## 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

<b>L1</b>	30.7 in. (780 mm)
<b>L3</b>	31.5 in. (800 mm)
<b>Data &amp; Power Cable Length</b>	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.

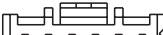

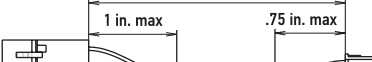

### Fabrication Recommendations:

- 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 1.5Nm and 1.8Nm.
- Somfy Soft Clip Drive Wheel Adaptors (brown in color) are not recommended.

<b>Torque</b>	4 Nm
<b>* Minimum Torque</b>	0.4 Nm
<b>Nominal Voltage</b>	24V DC
<b>Rated Current</b>	1.5A
<b>Speed</b>	10-25 Adjustable
<b>Thermal Protection</b>	5 minutes
<b>**Sound Level</b>	≤ 38 dBA



## Pigtail: Data and Power (Included with every motor. Also available separately, part # 9020004).

JST to Motor	Weidmuller Connects to Network	Cable Detail View	Connector Markings Detail View	Maximum Power Cable Length (to guarantee characteristics)								
 <p>G + - NC - +</p>	 <p>V+ V- + - G</p>	 <p>10 inches 1 in. max .75 in. max</p>	 <p>Font: Ariel Height: 2.3 mm Color: Black</p>	<table><tr><th>GAUGE</th><th>LENGTH</th></tr><tr><td>14 AWG</td><td>240 ft.</td></tr><tr><td>16 AWG</td><td>150 ft.</td></tr><tr><td>18 AWG</td><td>100 ft.</td></tr></table>	GAUGE	LENGTH	14 AWG	240 ft.	16 AWG	150 ft.	18 AWG	100 ft.
GAUGE	LENGTH											
14 AWG	240 ft.											
16 AWG	150 ft.											
18 AWG	100 ft.											

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

# Sonesse® 50 RS485

Star Head Motors

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



Somfy  
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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

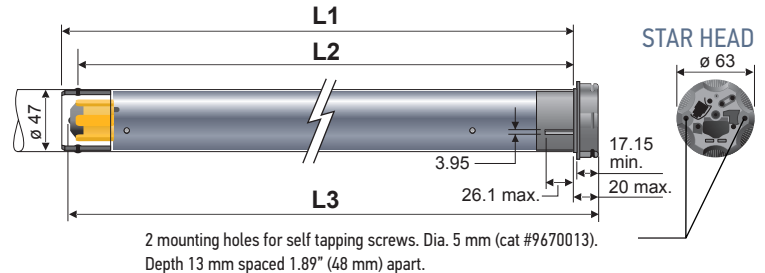
<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 44 (interior and exterior use)
<b>Limit Switch Type</b>	Electronic
<b>Limit Switch Capacity</b>	300 Turns
<b>Temperature Working Range</b>	-4°F to 158°F (-20°C to 70°C) (interior and exterior use)
<b>Insulation Class</b>	Class 1 for 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	1.8A
<b>Speed</b>	32 rpm	32 rpm
<b>Thermal Protection</b>	4 minutes	4 minutes
<b>*Sound Level</b>	≤ 45 dBA	≤ 47 dBA



## Dimensions

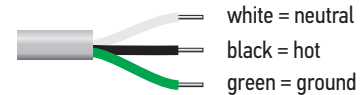


Dimensions	506	510
<b>L1</b>	25.7 in. (653 mm)	26.5 in. (673 mm)
<b>L2</b>	25.2 in. (640 mm)	26.0 in. (660 mm)
<b>L3</b>	26.2 in. (666 mm)	27.0 in. (686 mm)
<b>SJTW Power Cable Length</b>	9.8 ft. (3 m)	9.8 ft. (3 m)
<b>Data Cable (must be ordered separately)</b>	Customizable and available in various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

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

## Type of power cable

**120V AC / 60Hz**  
**3-conductor SJTW cable**



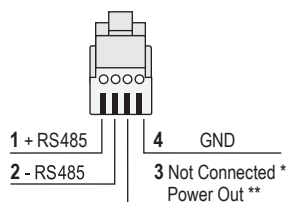
**\*\* Sound Level:** According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### Fabrication Recommendations:

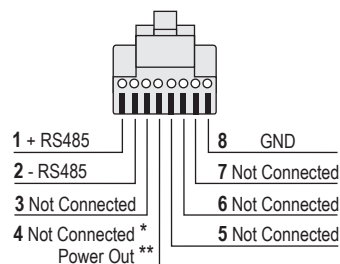
- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor.
- Interior Tube Diameter (ID) > 47 mm must be respected.
- 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. 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**



\* Data cable (black) for animeo IP networks

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

**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

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

# LT50 RA

Star Head and Round Head Motors (rapid limit adjustment)

<b>506S2</b>	1033401	<b>520R2</b>	1042055	<b>550R2</b>	1051464
<b>510R2</b>	1038172	<b>525A2</b>	1043424	<b>515S2RH</b>	1040061
<b>510S2</b>	1038171	<b>530R2</b>	1045793	<b>520R2RH</b>	1041028
<b>515A2</b>	1040063	<b>535A2</b>	1047368	<b>525A2RH</b>	1043025
<b>515S2</b>	1040062	<b>540R2</b>	1049894		

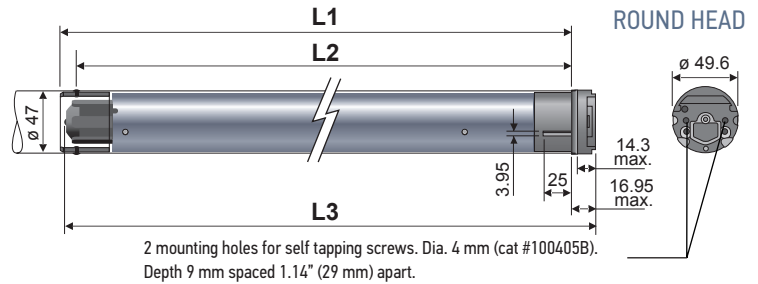
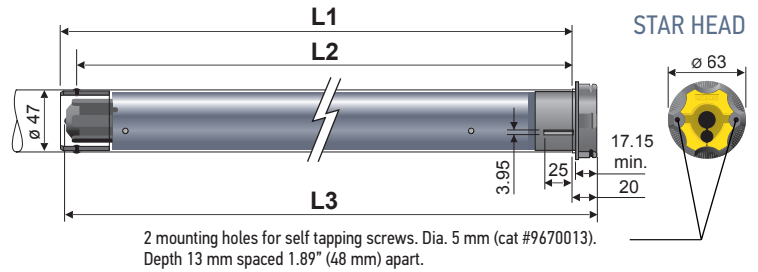


Offers control via power switching

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 44
<b>Limit Switch Type</b>	Rapid Adjustment RA
<b>Limit Switch Capacity</b>	46 Turns
<b>Temperature Working Range</b>	14°F to 140°F (-10°C to 60°C)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Do not parallel wire.

## Dimensions



Dimensions	506S2	510R2	510S2	515A2	515S2	520	525	530	535	540	550
<b>L1</b>	20.67 in. (525 mm)	19.88 in. (505 mm)	21.85 in. (555 mm)	20.67 in. (525 mm)	23.82 in. (605 mm)	20.67 in. (525 mm)	21.85 in. (555 mm)	21.85 in. (555 mm)	23.82 in. (605 mm)	23.82 in. (605 mm)	23.82 in. (605 mm)
<b>L2</b>	20.10 in. (510 mm)	19.29 in. (490 mm)	21.26 in. (540 mm)	20.10 in. (510 mm)	23.23 in. (590 mm)	20.10 in. (510 mm)	21.26 in. (540 mm)	21.26 in. (540 mm)	23.23 in. (590 mm)	23.23 in. (590 mm)	23.23 in. (590 mm)
<b>L3 (Star Head)</b>	20.98 in. (533 mm)	20.20 in. (513 mm)	22.17 in. (563 mm)	20.98 in. (533 mm)	24.13 in. (613 mm)	20.98 in. (533 mm)	22.17 in. (563 mm)	22.17 in. (563 mm)	24.13 in. (613 mm)	24.13 in. (613 mm)	24.13 in. (613 mm)
<b>L3 (Round Head)</b>					24.02 in. (610 mm)	20.98 in. (533 mm)	22.17 in. (563 mm)				
<b>Cable Length</b>	9.8 ft. (3m)										

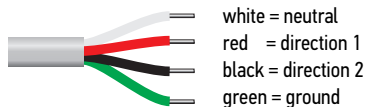
## Specifications

	506S2	510R2	510S2	515A2	515S2	520	525	530	535	540	550
<b>Torque</b>	6 Nm	10 Nm	10 Nm	15 Nm	15 Nm	20 Nm	25 Nm	30 Nm	35 Nm	40 Nm	50 Nm
<b>Nominal Voltage</b>	120V / 60Hz										
<b>Rated Current</b>	.95A	0.7A	1.3A	1.1A	1.8A	1.1A	1.6A	1.5A	2.1A	1.8A	2.1A
<b>Speed</b>	38 rpm	14 rpm	38 rpm	20 rpm	38 rpm	14 rpm	20 rpm	14 rpm	20 rpm	14 rpm	14 rpm
<b>Thermal Protection</b>	5 minutes										
<b>Sound Level (RH only)</b>	55 dBA	NA	56 dBA	NA	56 dBA	NA	NA	NA	NA	NA	NA

Optional 4C cables available in varying lengths with Fast Connector and open leads.

## Type of power cable

Wired 120V AC / 60 Hz 4-conductor SJTW cable



# LT50 RA CMO

(Rapid Limit Adjustment - Compact Manual Override)

**525A2 CMO** 1043010  
**530R2 CMO** 1045017  
**535A2 CMO** 1047006

**540R2 CMO** 1049026  
**550R2 CMO** 1051014

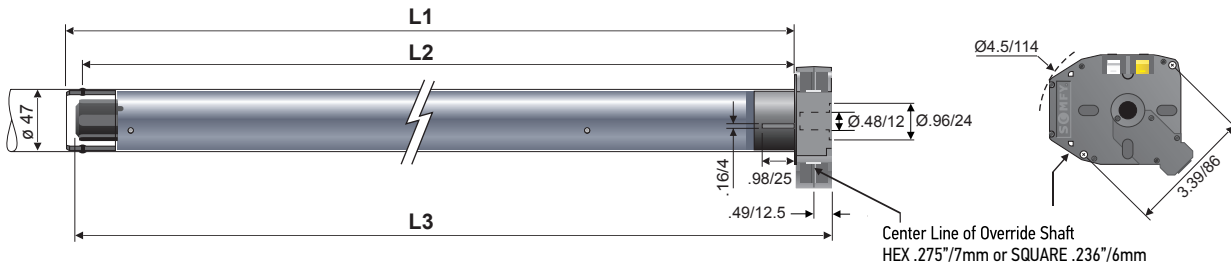


Offers control via power switching

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz	<b>Temperature Working Range</b>	14°F to 104°F (-10°C to 40°C)
<b>Index Protection Rating</b>	IP 44	<b>Insulation Class</b>	Class 1 for 120V AC
<b>Limit Switch Type</b>	Rapid Adjustment (RA) (includes manual override)	<b>Wiring</b>	Do not parallel wire.
<b>Limit Switch Capacity</b>	34 Turns		

## Dimensions



Dimensions	525A2 CMO	530R2 CMO	535A2 CMO	540R2 CMO	550R2 CMO
<b>L1</b>	23.39 in. (594 mm)	23.39 in. (594 mm)	26.14 in. (664 mm)	26.14 in. (664 mm)	26.14 in. (664 mm)
<b>L2</b>	22.80 in. (579 mm)	22.80 in. (579 mm)	25.55 in. (649 mm)	25.55 in. (649 mm)	25.55 in. (649 mm)
<b>L3</b>	23.90 in. (607 mm)	23.90 in. (607 mm)	26.65 in. (677 mm)	26.65 in. (677 mm)	26.65 in. (677 mm)
<b>Cable Length</b>	6 ft. (1.8 m)				

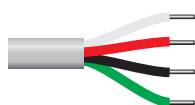
## Specifications

	525A2 CMO	530R2 CMO	535A2 CMO	540R2 CMO	550R2 CMO
<b>Torque</b>	25 Nm	30 Nm	35 Nm	40 Nm	50 Nm
<b>Nominal Voltage</b>	120V / 60Hz				
<b>Rated Current</b>	1.6A	1.5A	2.1A	1.8A	2.1A
<b>Speed</b>	20 rpm	14 rpm	20 rpm	14 rpm	14 rpm
<b>Thermal Protection</b>	5 minutes				

Optional CMO 4C cables available in varying lengths with open leads.

## Type of power cable

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



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

# LT50 Altus® RTS

## Star Head and Round Head Motors

<b>506S2</b>	1033399	<b>535A2</b>	1038168
<b>510S2</b>	1038165	<b>540R2</b>	1037510
<b>525A2</b>	1043423	<b>550R2</b>	1038170
<b>530R2</b>	1038169		

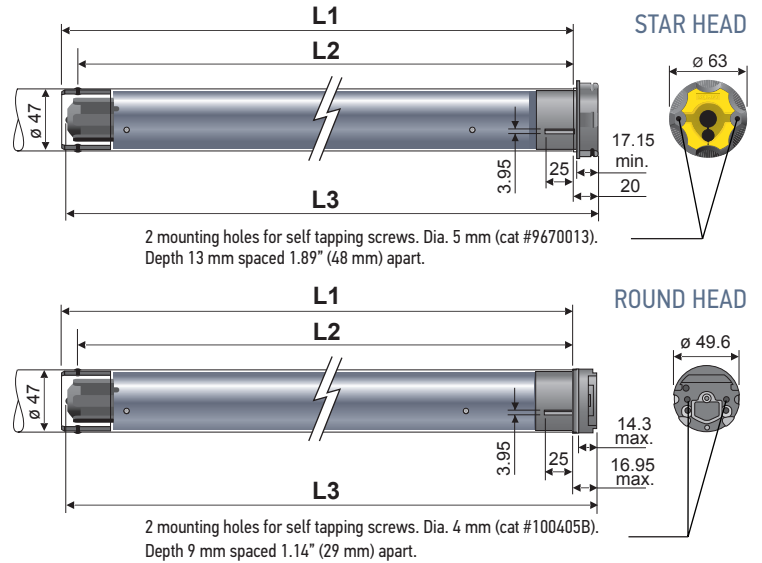


Radio Technology Somfy (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

### Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz
<b>Index Protection Rating</b>	IP 44
<b>Limit Switch Type</b>	Electronic RTS
<b>Limit Switch Capacity</b>	250 Turns
<b>Temperature Working Range</b>	14°F to 104°F (-10°C to 40°C)
<b>Insulation Class</b>	Class 1 for 120V AC
<b>Wiring</b>	Integrated into power cord. Must be at least 12 inches and must not come in contact with metal.

### Dimensions



Dimensions	506	510	525	530	535	540	550
<b>L1</b>	23.82 in. (605 mm)	23.82 in. (605 mm)	23.82 in. (605 mm)	23.82 in. (605 mm)	26.57 in. (675 mm)	25.79 in. (655 mm)	26.57 in. (675 mm)
<b>L2</b>	23.23 in. (590 mm)	23.23 in. (590 mm)	23.23 in. (590 mm)	23.23 in. (590 mm)	25.98 in. (660 mm)	25.20 in. (640 mm)	25.98 in. (660 mm)
<b>L3</b>	24.13 in. (613 mm)	24.13 in. (613 mm)	24.13 in. (613 mm)	24.13 in. (613 mm)	26.89 in. (683 mm)	26.10 in. (663 mm)	26.89 in. (683 mm)
<b>Cable Length</b>	9.8 ft. (3 m)	9.8 ft. (3 m)	9.8 ft. (3 m)	9.8 ft. (3 m)	9.8 ft. (3 m)	9.8 ft. (3 m)	9.8 ft. (3 m)

### Specifications

	506	510	525	530	535	540	550
<b>Torque</b>	6 Nm	10 Nm	25 Nm	30 Nm	35 Nm	40 Nm	50 Nm
<b>Nominal Voltage</b>	120V/60Hz						
<b>Rated Current</b>	1.1A	1.3A	1.6A	1.5A	2.1A	1.8A	2.1A
<b>Speed</b>	38 rpm	38 rpm	20 rpm	14 rpm	20 rpm	14 rpm	14 rpm
<b>Thermal Protection</b>	5 minutes						
<b>Radio Frequency</b>	433.42 MHz						

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

### Type of power cable

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



# LT50 RTS CMO

(Compact Manual Override)

525A2 RTS CMO 1043426 540R2 RTS CMO 1051477  
 530R2 RTS CMO 1051476 550R2 RTS CMO 1051466  
 535A2 RTS CMO 1047306

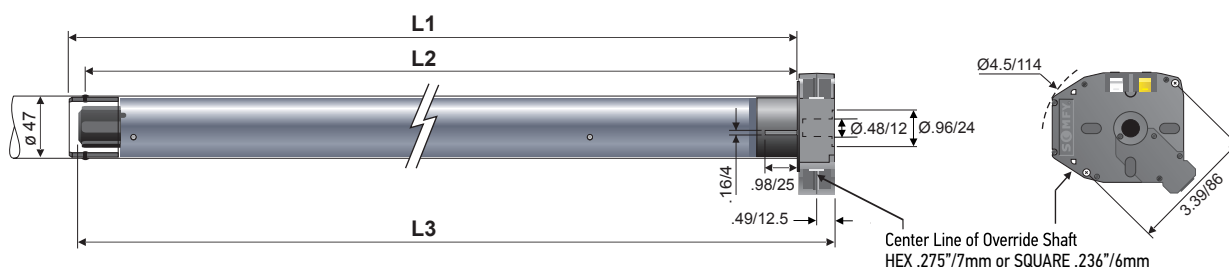


Radio Technology Somfy (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz	<b>Temperature Working Range</b>	14°F to 104°F (-10°C to 40°C)
<b>Index Protection Rating</b>	IP 44	<b>Insulation Class</b>	Class 1 for 120V AC
<b>Limit Switch Type</b>	Rapid Adjustment RA and Electronic Receiver Integrated in motor tube	<b>Antenna</b>	Integrated into power cord. Must be at least 12 inches and must not come in contact with metal.
<b>Limit Switch Capacity</b>	34 Turns	<b>Wiring</b>	Parallel wiring allowed in accordance with NEC and local electrical codes.

## Dimensions



Dimensions	525A2 CMO	530R2 CMO	535A2 CMO	540R2 CMO	550R2 CMO
<b>L1</b>	30.47 in. (774 mm)	30.47 in. (774 mm)	30.47 in. (774 mm)	30.47 in. (774 mm)	30.47 in. (774 mm)
<b>L2</b>	29.88 in. (759 mm)	29.88 in. (759 mm)	29.88 in. (759 mm)	29.88 in. (759 mm)	29.88 in. (759 mm)
<b>L3</b>	30.98 in. (787 mm)	30.98 in. (787 mm)	30.98 in. (787 mm)	30.98 in. (787 mm)	30.98 in. (787 mm)
<b>Cable Length</b>	9.8 ft. (3 m)	9.8 ft. (3 m)	12 ft. (3.6 m)	9.8 ft. (3 m)	9.8 ft. (3 m)

## Specifications

	525A2 CMO	530R2 CMO	535A2 CMO	540R2 CMO	550R2 CMO
<b>Torque</b>	25 Nm	30 Nm	35 Nm	40 Nm	50 Nm
<b>Nominal Voltage</b>	120v / 60Hz				
<b>Rated Current</b>	1.6A	1.5A	2.1A	1.8A	2.1A
<b>Speed</b>	20 rpm	14 rpm	20 rpm	14 rpm	14 rpm
<b>Thermal Protection</b>	5 minutes				
<b>Radio Frequency</b>	433.42 MHz				

Optional CMO 3C cables available in varying lengths with NEMA Plug and open leads.

## Type of power cable

RTS  
 120V AC / 60Hz  
 3-conductor SJTW cable

white = neutral  
 black = hot  
 green = ground

\*1047306 535A2 CMO Includes NEMA Plug



# LT50 Orea® RTS

Specifically designed for use in cassette awnings only

**535A2** 1038173  
**550R2** 1038174

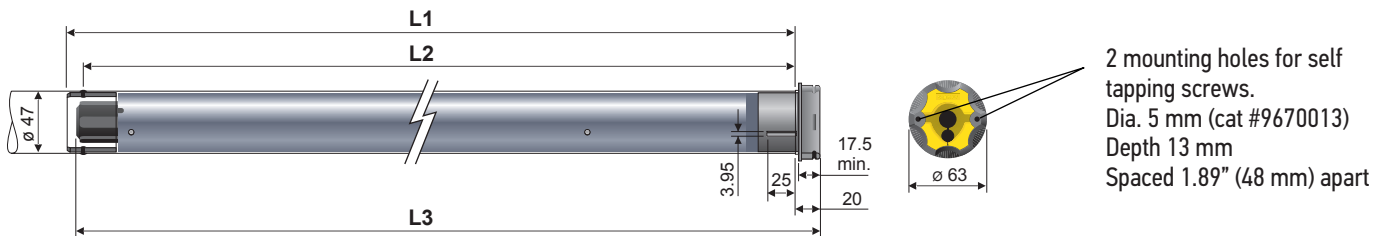


Radio Technology Somfy (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz	<b>Temperature Working Range</b>	14°F to 104°F (-10°C to 40°C)
<b>Index Protection Rating</b>	IP 44	<b>Insulation Class</b>	Class 1 for 120V AC
<b>Limit Switch Type</b>	Electronic RTS	<b>Antenna</b>	Integrated into power cord. Must be at least 12 inches and must not come in contact with metal.
<b>Limit Switch Capacity</b>	250 Turns	<b>Wiring</b>	Parallel wiring allowed in accordance with NEC and local electrical codes.

## Dimensions



Dimensions	535	550
<b>L1</b>	26.57 in. (675 mm)	26.57 in. (675 mm)
<b>L2</b>	25.98 in. (660 mm)	25.98 in. (660 mm)
<b>L3</b>	26.89 in. (683 mm)	26.89 in. (683 mm)
<b>Cable Length</b>	9.8 ft. (3 m)	

## Specifications

	535	550
<b>Torque</b>	35 Nm	50 Nm
<b>Nominal Voltage</b>	120V / 60HZ	
<b>Rated Current</b>	2.1A	
<b>Speed</b>	20 rpm	14 rpm
<b>Thermal Protection</b>	5 minutes	
<b>Radio Frequency</b>	433.42 MHz	433.42 MHz

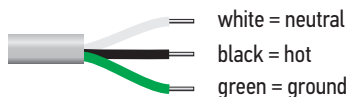
### Please Note:

Orea® RTS motor is specifically designed for cassette awnings only. Automatic limit setting in the UP direction.

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

## Type of power cable

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



# Oximo™ 50 RTS

## Star Head Motor

525A2 1033402

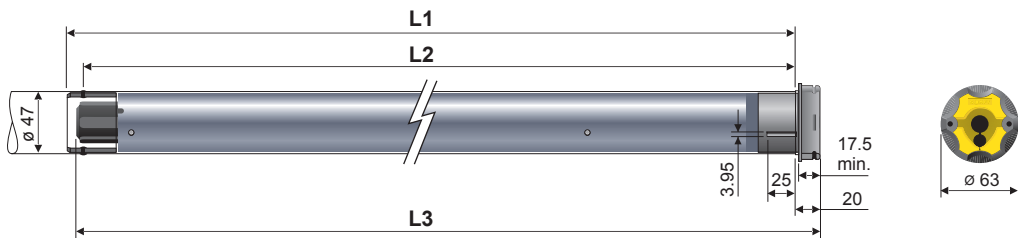


Radio Technology Somfy (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz	<b>Temperature Working Range</b>	14°F to 104°F (-10°C to 40°C)
<b>Index Protection Rating</b>	IP 44	<b>Insulation Class</b>	Class 1 for 120V AC
<b>Limit Switch Type</b>	Electronic RTS	<b>Antenna</b>	Integrated into power cord. Must be at least 12 inches and must not come in contact with metal.
<b>Limit Switch Capacity</b>	200 Turns	<b>Wiring</b>	Parallel wiring allowed in accordance with NEC and local electrical codes.

## Dimensions



### Dimensions

<b>L1</b>	23.81 in. (605 mm)
<b>L2</b>	23.23 in. (590 mm)
<b>L3</b>	24.13 in. (613 mm)
<b>Cable Length</b>	9.8 ft. (3 m)

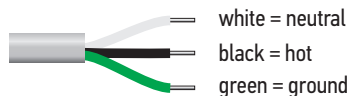
## Specifications

<b>Torque</b>	25 Nm
<b>Nominal Voltage</b>	120V / 60HZ
<b>Rated Current</b>	1.6A
<b>Speed</b>	20 rpm
<b>Thermal Protection</b>	4 minutes
<b>Radio Frequency</b>	433.42 MHz

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

## Type of power cable

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



# Sunea® RTS CMO (Compact Manual Override)

Specifically designed for use in cassette and standard retractable awnings only

**525A2 CMO** 1114304  
**535A2 CMO** 1116321  
**550R2 CMO** 1118210

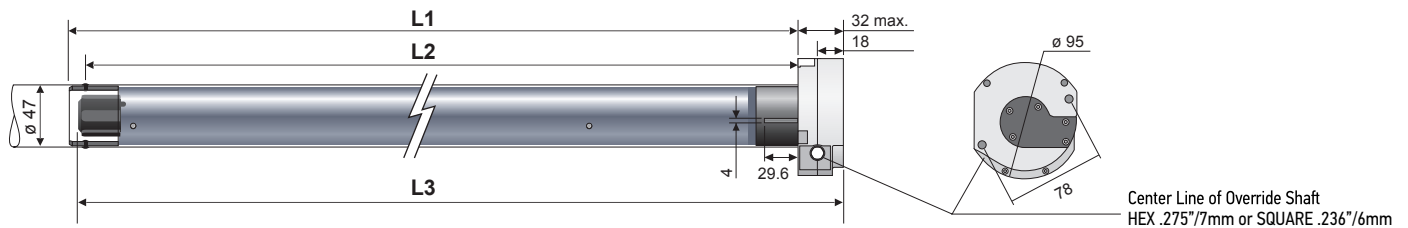


Radio Technology Somfy (RTS) allows for wireless radio control of motorized window coverings via the RTS family of controls.

## Technical Features

<b>Voltage Supply</b>	120V AC, 60Hz	<b>Temperature Working Range</b>	14°F to 104°F (-10°C to 40°C)
<b>Index Protection Rating</b>	IP 44	<b>Insulation Class</b>	Class 1 for 120V AC
<b>Limit Switch Type</b>	Electronic RTS	<b>Antenna</b>	Integrated into power cord. Must be at least 12 inches and must not come in contact with metal.
<b>Limit Switch Capacity</b>	250 Turns	<b>Wiring</b>	Parallel wiring allowed in accordance with NEC and local electrical codes.

## Dimensions



Dimensions	525A2 CMO	535A2 CMO	550R2 CMO
<b>L1</b>	27.40 in. (696 mm)	27.40 in. (696 mm)	27.40 in. (696 mm)
<b>L2</b>	26.93 in. (684 mm)	26.93 in. (684 mm)	26.93 in. (684 mm)
<b>L3</b>	28.35 in. (720 mm)	28.35 in. (720 mm)	28.35 in. (720 mm)

## Specifications

	525A2 CMO	535A2 CMO	550R2 CMO
<b>Torque</b>	25 Nm	35 Nm	50 Nm
<b>Nominal Voltage</b>	120V / 60HZ		
<b>Rated Current</b>	1.6A	2.1A	2.1A
<b>Speed</b>	20 rpm	20 rpm	14 rpm
<b>Thermal Protection</b>	4 minutes		
<b>Radio Frequency</b>	433.42 MHz		

3C Fast Connector extension cables available.

## Type of power cable - SJTW + 18 in.

Fast Connector - Male  
 (Do not cut fast connector cable)



## Star Head Motors




## Technical Features

## Dimensions

## Specifications

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

## Type of power cable



white = neutral  
black = hot  
green = ground

# LT50 RS485

Star Head Motors

**515S2** 1002427  
**535A2** 1002288



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 140°F (-20°C to 60°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

	<b>515</b>	<b>535</b>
<b>Torque</b>	15 Nm	35 Nm
<b>Nominal Voltage</b>	120V / 60Hz	120V / 60Hz
<b>Rated Current</b>	1.8A	2.1A
<b>Speed</b>	38 rpm	20 rpm
<b>Thermal Protection</b>	4 minutes	4 minutes
<b>*Sound Level</b>	≤ 55 dBA	≤ 55 dBA

### \* Sound Level:

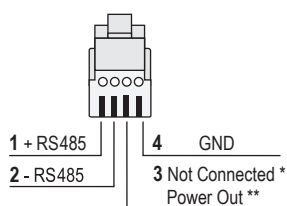
According to standards ISO 3741 NF 31022 in dBA ref 1pW at nominal torque without end product.

### Fabrication Recommendations:

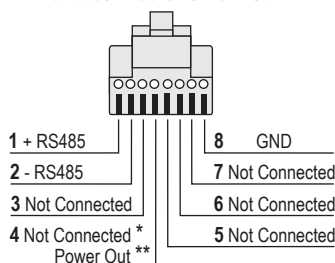
- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube.
- Interior Tube Diameter (ID) > 47 mm must be respected.
- A motor crown adaptor between motor 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



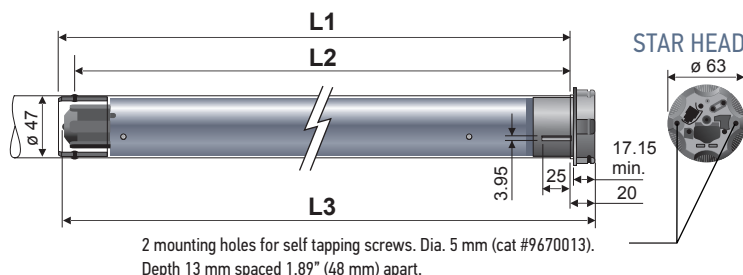
### RJ45 connects to network



\* Data cable (black) for animeo IP networks

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

## Dimensions



### Dimensions

<b>L1</b>	26.57 in. (675 mm)
<b>L2</b>	25.98 in. (660 mm)
<b>L3</b>	26.89 in. (683 mm)
<b>SJTW Power Cable Length</b>	9.8 ft. (3 m)
<b>Data Cable</b> (must be ordered separately)	Customizable and available in various lengths

Optional 3C cables available in varying lengths with NEMA plug, Fast Connector and open leads.

## Type of power cable

**120V AC / 60Hz**  
**3-conductor SJTW cable**



### 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

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

# MOTOR CABLE OPTIONS

Learn more about controls and accessories and download RTS brochure at [www.somfysystems.com/controls](http://www.somfysystems.com/controls)

## MOTOR CABLE OPTIONS

### 3-CONDUCTOR CABLES



**3-conductor motor cable  
with Fast Connector:**

Sonesse 50 & LT50 RTS/RS485 Motor Pigtail to  
Fast Connector SJTW 3C CABLE - 1.6FT  
9020803



**3-conductor Fast Connector  
extension cable with open leads:**

Fast Connector Extension Cable  
3C SJTW without NEMA Plug - 8.4 FT  
9021157



**3-conductor switch box  
panel mount connector:**

Panel Mount, 3C Female  
Fast Connector  
9026398



**3-conductor Fast Connector  
extension cables with NEMA plug:**

Fast Connector Extension Cable 3C  
SJTW with NEMA Plug - 1.4 FT  
9021113

Fast Connector Extension Cable 3C  
SJTW with NEMA Plug - 4.4 FT  
9021114

Fast Connector Extension Cable 3C  
SJTW with NEMA Plug - 8.4 FT  
9021115

Fast Connector Extension Cable 3C  
SJTW with NEMA Plug - 10.4 FT  
9020791

Fast Connector Extension Cable 3C  
SJTW with NEMA Plug - 18 FT  
9020792

Fast Connector Extension Cable 3C  
SJTW with NEMA Plug - 24 FT  
9020793



**3-conductor motor cables  
with open leads:**

Sonesse 50 & LT50/LT60 RTS/RS485  
SJTW 3C Cable - 10 FT.  
9018190

Sonesse 50 & LT50/LT60 RTS/RS485  
SJTW 3C CABLE - 24 FT  
9020985



**3-conductor motor cables  
with NEMA plug:**

Sonesse 50 & LT50/LT60 RTS/RS485  
SJTW 3C CABLE with NEMA Plug- 1.5 FT  
9021049

Sonesse 50 & LT50/LT60 RTS/RS485  
SJTW 3C CABLE with NEMA Plug- 6 FT  
9021050

Sonesse 50 & LT50/LT60 RTS/RS485  
SJTW 3C CABLE with NEMA Plug- 10 FT  
9021051

Sonesse 50 & LT50/LT60 RTS/RS485  
SJTW 3C CABLE with NEMA Plug- 18 FT  
9021052

Sonesse 50 & LT50/LT60 RTS/RS485  
SJTW 3C CABLE with NEMA Plug- 24 FT  
9021053



**3-conductor CMO motor cables  
with open leads:**

LT50 CMO RTS  
SJTW 3C CABLE 10FT  
9021025

LT50 CMO RTS  
SJTW 3C CABLE 24FT  
9021047



**3-conductor CMO motor cables  
with NEMA plugs:**

LT50 CMO RTS Cable with 5-15P  
Right Angle NEMA Plug - 12 ft.  
9012148

LT50 CMO RTS Cable with 5-15P  
Right Angle NEMA Plug - 18 ft.  
9012150

LT50 CMO RTS Cable with 5-15P  
Right Angle NEMA Plug - 24 ft.  
9012149

### 4-CONDUCTOR CABLES



**4-conductor motor cable  
with Fast Connector:**

Sonesse 50 & LT50 Motor Pigtail to  
Fast Connector SJTW 4C CABLE - 1.6FT  
9020804



**4-conductor Fast Connection extension cables with open leads:**

Fast Connector Extension Cable  
4C SJTW - 4.4 FT  
9021117

Fast Connector Extension Cable  
4C SJTW - 8.4 FT  
9021118

Fast Connector Extension Cable  
4C SJTW - 16.4 FT  
9021120

Fast Connector Extension Cable  
4C SJTW - 22.4 FT  
9021121



**4-conductor motor cable  
with open leads:**

Sonesse 50 & LT50/LT60  
SJTW 4C CABLE - 10 FT  
9018345

Sonesse 50 & LT50/LT60  
SJTW 4C CABLE - 24 FT  
9021046



**4-conductor CMO motor cables  
with open leads:**

CMO Motor Cable - 6 ft.  
9208302

CMO Motor Cable - 12 ft.  
9012137

CMO Motor Cable - 24 ft.  
9208308

# CONTROL ACCESSORIES

Learn more about controls and accessories and download RTS brochure at [www.somfy.com/controls](http://www.somfy.com/controls)

## RADIO TECHNOLOGY SOMFY® (RTS)



### SITUO & TELIS COLLECTIONS



Situo® 1 RTS  
Pure Single  
Channel Remote  
1870571



Situo® 5 RTS  
Pure Five  
Channel Remote  
1870575



Situo® 1 RTS  
Iron Single  
Channel Remote  
1870572



Situo® 5 RTS  
Iron Five  
Channel Remote  
1870576



Situo® 1 RTS  
Natural Single  
Channel Remote  
1870573



Situo® 5 RTS  
Natural Five  
Channel Remote  
1870577



Situo® 1 RTS  
Arctic Single  
Channel Remote  
1870574



Situo® 5 RTS  
Arctic Five  
Channel Remote  
1870578



Situo® 5 RTS  
Soliris Five  
Channel Remote  
1870579



Situo® 5 RTS  
Variation Five  
Channel Remote  
1811612



Telis 1 RTS Patio  
Single Channel  
Remote  
1810643



Telis 4 RTS Patio  
Five Channel  
Remote  
1810645



Telis 16 Channel RTS  
Pure Remote with  
On-screen display  
1811081



Telis 16 Channel RTS  
Silver Remote with  
On-screen display  
1811082



Telis 1 Chronis RTS  
Pure Timer with  
On-screen display  
1805237

### DECOFLEX WIREFREE™ WALL SWITCHES



DecoFlex 1 Channel RTS  
WireFree™ Wall Switch



DecoFlex 2 Channel RTS  
WireFree™ Wall Switch



DecoFlex 3 Channel RTS  
WireFree™ Wall Switch



DecoFlex 4 Channel RTS  
WireFree™ Wall Switch



DecoFlex 5 Channel RTS  
WireFree™ Wall Switch

- Wall Switches shown in white. Also available in black and ivory finishes.
- Shown assembled with printed channel buttons.
- Custom engraved buttons are also available.



Black



Ivory

### SMOOVE® WALL SWITCH



Smoove 1 RTS Pure

- Battery-operated convenience
- Surface mounts with ease
- Frames available in 7 colors



Pure



Silver  
Matte



Black



Light  
Bamboo



Amber  
Bamboo



Cherry



Walnut

### TABLE TOP ACCESSORIES



DecoFlex WireFree™ RTS  
Table Top Accessory Black  
1811051\*



DecoFlex WireFree™ RTS  
Table Top Accessory Silver  
1810972\*



DecoFlex WireFree™ RTS  
Table Top Accessory White  
1811185\*

\*DecoFlex Switch sold separately from Table Top Accessory.



# CONTROL ACCESSORIES

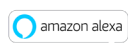
## RADIO TECHNOLOGY SOMFY® (RTS)



### WIFI TO RTS/ZIGBEE INTERFACE



TaHoma® RTS/Zigbee  
Smartphone  
& Tablet Interface  
1811731



**IFTTT**

Control window coverings, awnings, screens and rolling shutters using your tablet, smartphone or voice. Create timed events, scenes and more. Integration-ready for third-party control.

### ZRTSI



Z-Wave® to RTS  
Interface 2

1811265

### 16 CHANNEL INTERFACE



Universal RTS Interface 16-Channel  
(Converts IR, RS232, RS485 to RTS)

1810872

### RTS REPEATER



RTS Repeater

1810791

### DIMMABLE LED RTS LIGHT KIT



Dimmable LED RTS Light Kit

Warm White  
1811491

Cool White  
1811506

Dimming LED RTS Receiver  
1811486

### OUTDOOR RECEIVERS



Outdoor Lighting Receiver  
1810875

Universal RTS Receiver  
1810627

### DRY CONTACT INTERFACE



RTS Dry Contact Interface  
Single Channel

1810493

### SUNIS & THERMOSUNIS INDOOR SENSORS



Sunis Indoor  
WireFree™ RTS

9013707



ThermoSunis  
Indoor  
WireFree™ RTS

9013708

### EOLIS 3D SENSOR



Eolis 3D WireFree™ RTS  
Wind Sensor

1816081

### EOLIS SENSOR



Eolis RTS  
Wind Sensor 24V

9012499

### SOLIRIS SENSOR



Soliris RTS Sun and Wind  
Sensor 24V

9012500

### ONDEIS RAIN & SUN SENSOR



Ondeis WireFree™ RTS  
Rain and Sun Sensor

9019617

# CONTROL ACCESSORIES

## DIGITAL MOTOR INTERFACES

### ZDMI



Z-Wave® to Digital  
Motor Interface  
1870171

### ZBDMI



ZigBee® to Digital  
Motor Interface  
1870220

## animeo® IP



animeo IP is a total solar management system utilizing Somfy-powered intelligent motorized window coverings as well as digital keypads and weather sensors. The system's controllers, sensors and keypads can be added to both new and existing Somfy Digital Network installations for comprehensive solar management as either a stand-alone solution or integrated into third party control systems.

An intuitive user interface allows for simplified commissioning, building management and technical support, featuring drag-and-drop programming, motor auto discovery and at-a glance system status update.



animeo® IP Building Controller  
1822314

Visit [www.somfysystems.com/animeo](http://www.somfysystems.com/animeo) to learn more

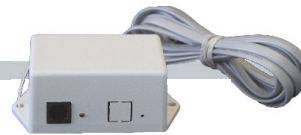
## WIRED AC CONTROLS & SWITCHES



### GROUP CONTROL SYSTEM II (GCS II)



Group Control System II (GCS II)  
1810476



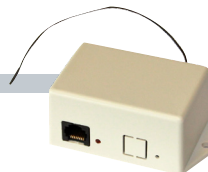
GCS II RTS Radio Receiver  
1810854

### INDIVIDUAL GROUP CONTROL (IGC) 4N1 MOTOR CONTROLLER



IGC 4N1 Motor Controller  
1811416

IGC 4N1 Motor Controller Shutter Mode  
1870902



IGC 4N1 RTS Radio Receiver  
1811492



DecoFlex Dry Contact Keypad  
1811402

# CONTROL ACCESSORIES

## WIRED AC CONTROLS & SWITCHES

WIRED TECHNOLOGY



### DECORATOR TOGGLE SWITCHES (single pole, double throw) & SWITCHPLATES



Maintained Toggle Switch  
(White)  
1800381



Maintained Toggle Switch  
(Ivory)  
1800380



Momentary Toggle Switch  
(White)  
1800383



Momentary Toggle Switch  
(Ivory)  
1800382



Standard Metal Toggle Switchplate  
(White)  
9011954



Standard Metal Toggle Switchplate  
(Ivory)  
9011953



Plastic Toggle Switchplate  
(White)  
9011963



Plastic Toggle Switchplate  
(Ivory)  
9011962

### DECORATOR PADDLE SWITCHES & SWITCHPLATES



Maintained Paddle Switch  
(White)  
1800374



Maintained Paddle Switch  
(Ivory)  
1800373



Momentary Paddle Switch  
(White)  
1800378



Momentary Paddle Switch  
(Ivory)  
1800377



Maintained Double Pole,  
Double Throw Paddle Switch  
(White)  
1800375



Maintained Double Pole,  
Double Throw Paddle Switch  
(Ivory)  
1800376



Single Gang Paddle Switchplate  
(White)  
9011967



Single Gang Paddle Switchplate  
(Ivory)  
9011966

### SPECIALTY SWITCH

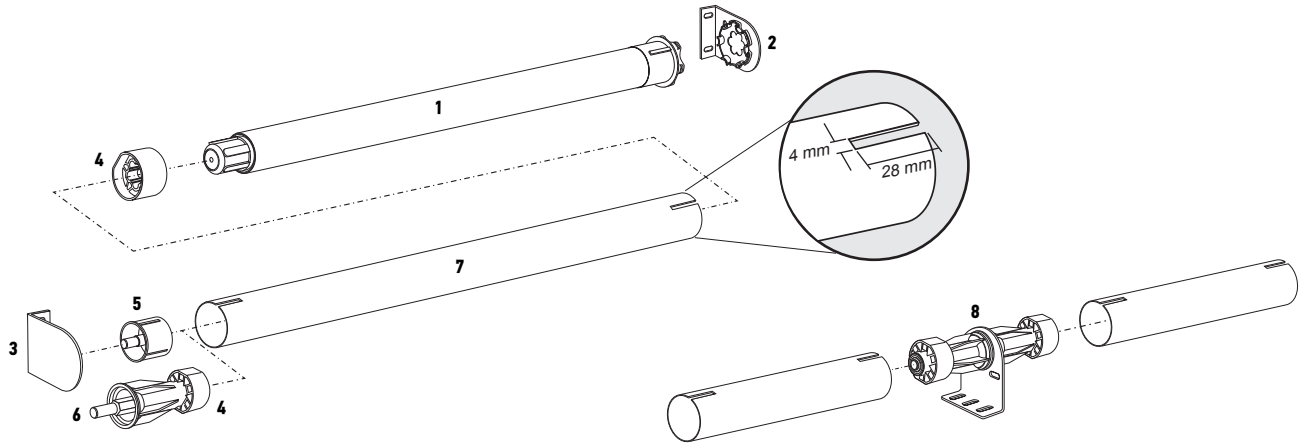


5 position Momentary/Maintained Rocker Switch  
Switchplate included  
(White)  
1800388

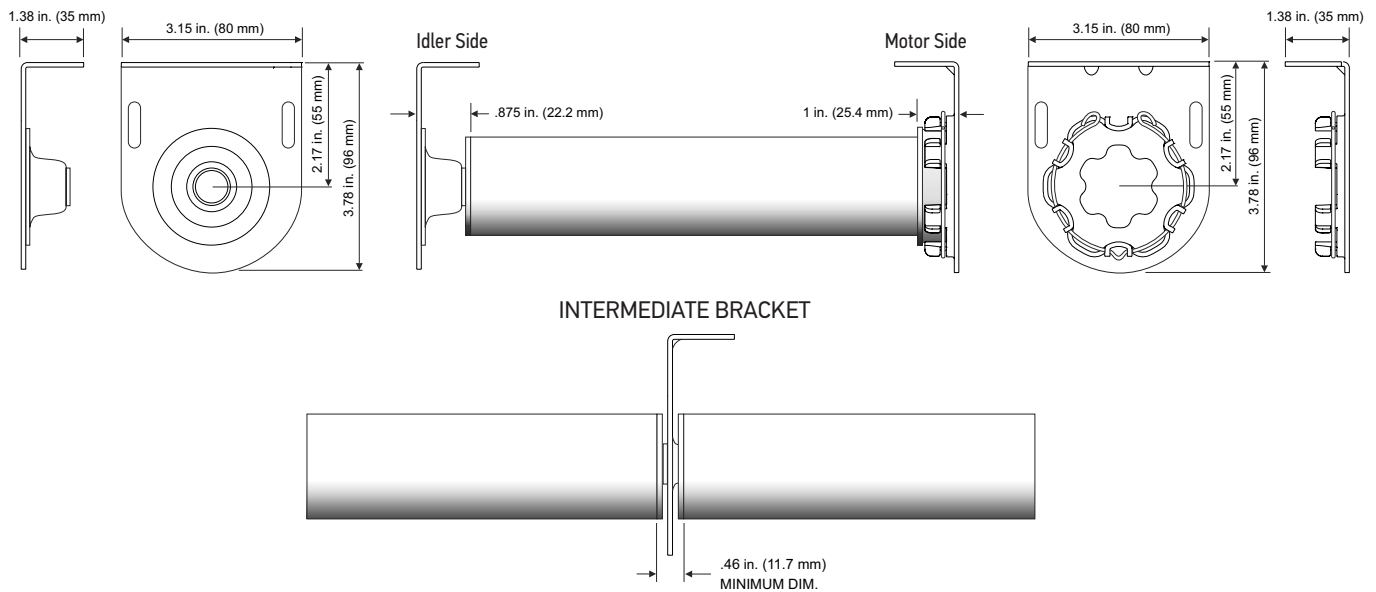
# 500 SERIES HARDWARE SYSTEMS

## SOMFY 2" SYSTEM

### STANDARD BRACKET COMPONENTS



### DIMENSIONS AND LIGHT GAP SPECIFICATIONS



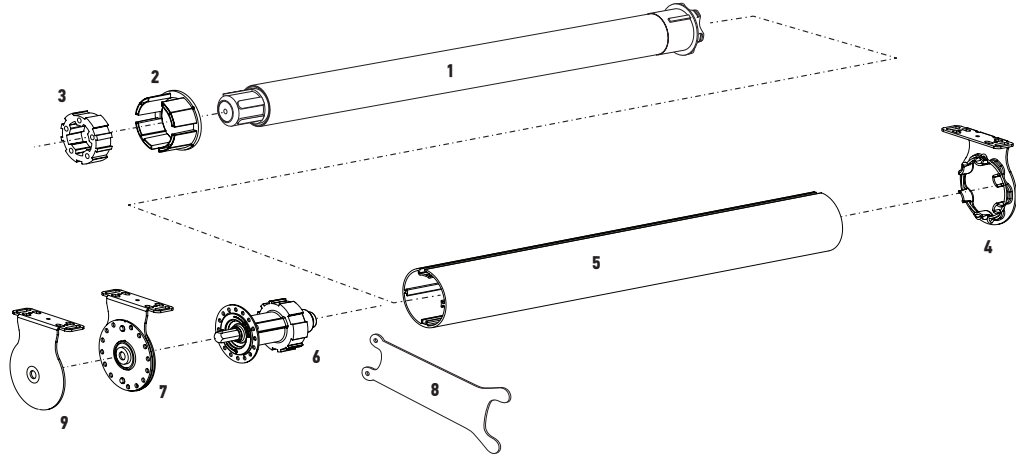
### PRODUCT CHART

IMAGE	DESCRIPTION	CATALOG NUMBER
1	Motor - LT50 shown	Refer to individual 500 Series Spec Sheet
2	LT50 Universal Motor Bracket	9410651
3	LT50 Idler Bracket with 10 mm Hole Nylon Bearing	9410635
4	2" Round LT50 - Hard Clip	9206088
5	2" Collapsible End Cap (silent) - 10 mm Shaft (requires notch in tube)	9013592
6	2" Universal End Cap - Collapsible 10 mm Shaft (requires notch in tube)	9420800
7	2" Aluminum Tube	1781148
8	LT50 2" Universal Intermediate Bracket Kit (requires notch in tube)	9410648

# 500 SERIES HARDWARE SYSTEMS

ACMEDA®

## STANDARD BRACKET COMPONENTS



## DIMENSIONS AND LIGHT GAP SPECIFICATIONS



## PRODUCT CHART

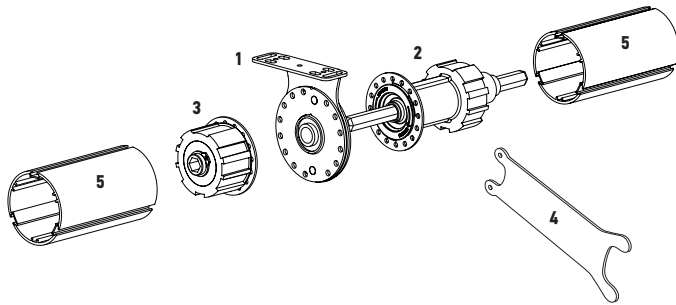
IMAGE	DESCRIPTION	CATALOG NUMBER
1	Motor (Sonesse® 50 RTS)	Refer to individual 500 Series Spec Sheet
2	ST50 Crown 56 mm Tube	9014125
3	ST50 Drive Wheel 56 mm Tube	9014126
4	ST50 Star Head Motor Bracket 55P	9014135
5	56 OD Aluminum Sonesse 50 Tube (ft) - White Powder Coat	1780744
5A	56 OD Aluminum Sonesse 50 Tube (ft) - Mill Finish	1780743
6	ST50 Auto Plug End 56 mm Tube	9014097
7	ST50 Adjustable Idler Bracket - Ceiling Mount 55P	9014110
7A	ST50 Adjustable Idler End Bracket - Wall Mount 55P	9014238
8	ST50 Bracket Leveling Adjuster Tool	1780742
9	Non-Adjustable Idler Bracket 55P	9014683

# 500 SERIES HARDWARE SYSTEMS

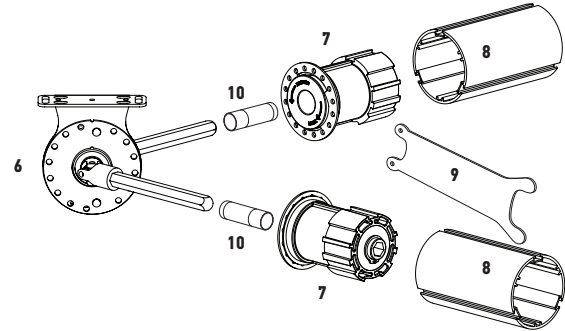
ACMEDA®

## INTERMEDIATE BRACKET COMPONENTS (STANDARD & 0-90°)

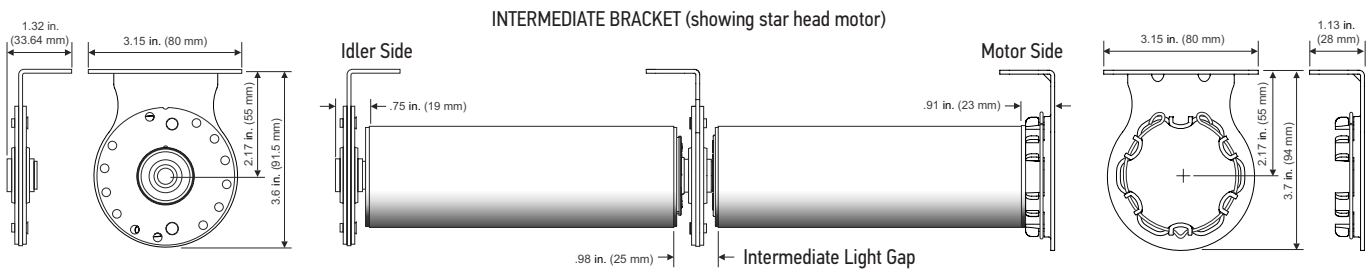
INTERMEDIATE STANDARD



INTERMEDIATE 0°- 90



## DIMENSIONS AND LIGHT GAP SPECIFICATIONS (INTERMEDIATE)



### PRODUCT CHART - STANDARD

IMAGE	DESCRIPTION	CATALOG NUMBER
1	ST50 Intermediate Bracket Ceiling Mount 55P	9014120
1	ST50 Intermediate Bracket Wall Mount 55P	9014240
2	ST50 Intermediate Drive 56 mm Tube	9014114
3	ST50 Intermediate Receiver 56 mm Tube	9014121
4	ST50 Bracket Leveling Adjuster Tool	1780742
5	56mm OD Aluminum Sonesse 50 Tube (ft) - White Powder Coat	1780744
5	56mm OD Aluminum Sonesse 50 Tube (ft) - Mill Finish	1780743

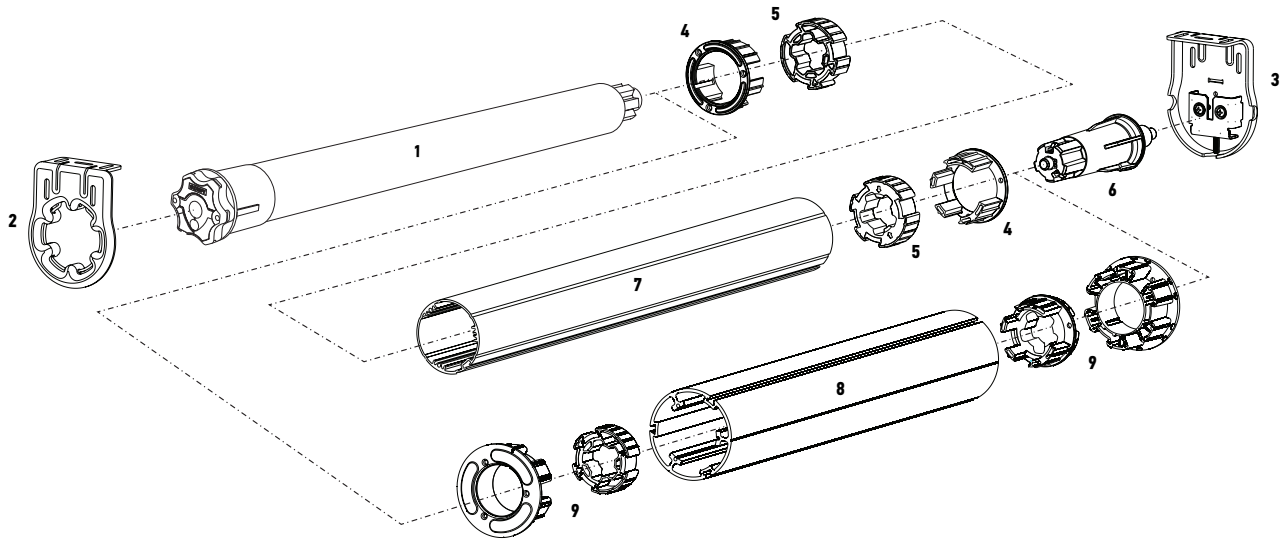
### PRODUCT CHART - 0° to 90°

IMAGE	DESCRIPTION	CATALOG NUMBER
6	50 Intermediate Bracket Ceiling Mount 55P / 90°	9014122
6	ST50 Intermediate Bracket Wall Mount 55P / 90°	9014239
7	ST50 Intermediate Receiver 56 mm Tube 90° (spacer included)	9014123
8	56mm OD Aluminum Sonesse 50 Tube (ft) - White Powder Coat	1780744
8	56mm OD Aluminum Sonesse 50 Tube (ft) - Mill Finish	1780743
9	ST50 Bracket Leveling Adjuster Tool	1780742
10	Spacer (included with 9014123)	NA

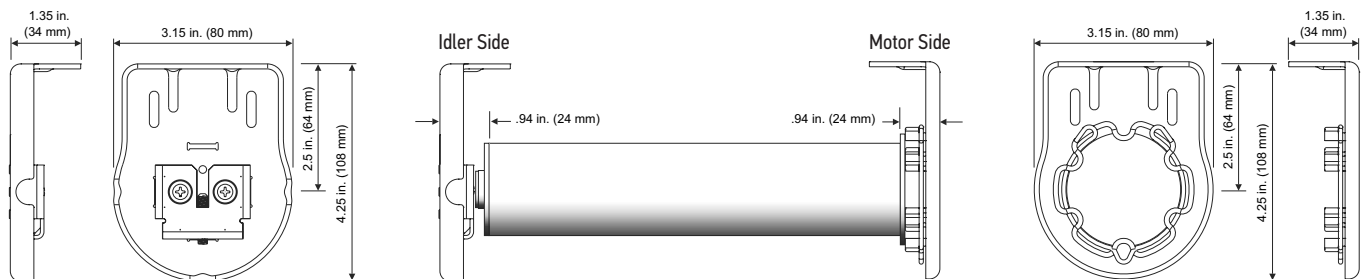
# 500 SERIES HARDWARE SYSTEMS

## ROLLEASE® SILENT PIN SYSTEM

### STANDARD BRACKET COMPONENTS



### DIMENSIONS AND LIGHT GAP SPECIFICATIONS



### PRODUCT CHART

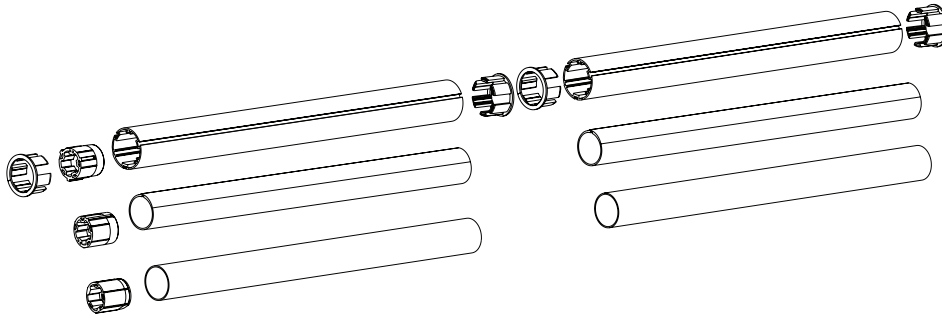
IMAGE	DESCRIPTION	CATALOG NUMBER
1	Motor - LT50 shown	Refer to individual 500 Series Spec Sheet
2	RollEase® "Silent Pin" Motor Bracket White	9016858
3	RollEase® "Silent Pin" Idler Bracket Wall and Ceiling Mount - White	9016859
4	RollEase® "Silent Pin" Crown only for RollEase 2.5" (63 mm) Tube	9016856
4 & 5	RollEase® "Silent Pin" Crown and Drive Adaptor for RollEase 2.5" (63 mm) Tube	9015234
6	RollEase® "Silent Pin" Idler End Pin	9016857
7	2.5" O.D. Aluminum Tube	1781343
8	3.25" O.D. Aluminum Tube	1782096
9	RollEase® "Silent Pin" Crown and Drive Adaptor for RollEase 3.25" (83 mm) Tube	9016855



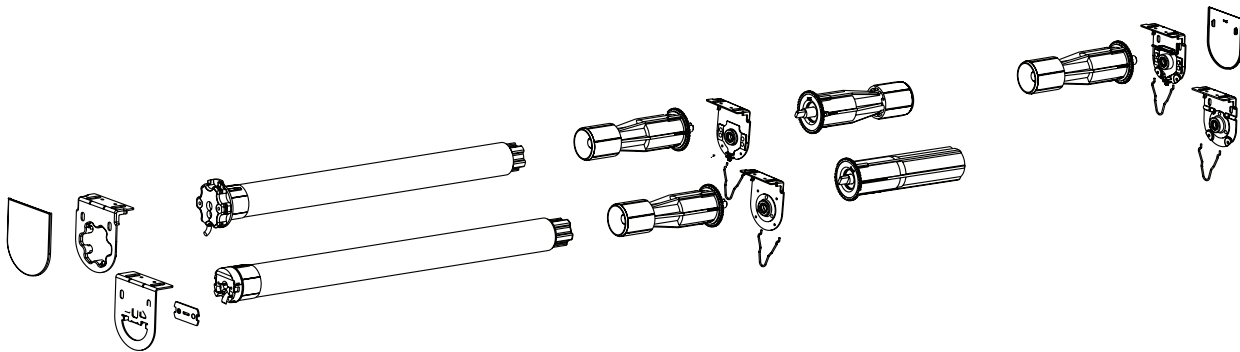
# 500 SERIES HARDWARE SYSTEMS

ZMC®

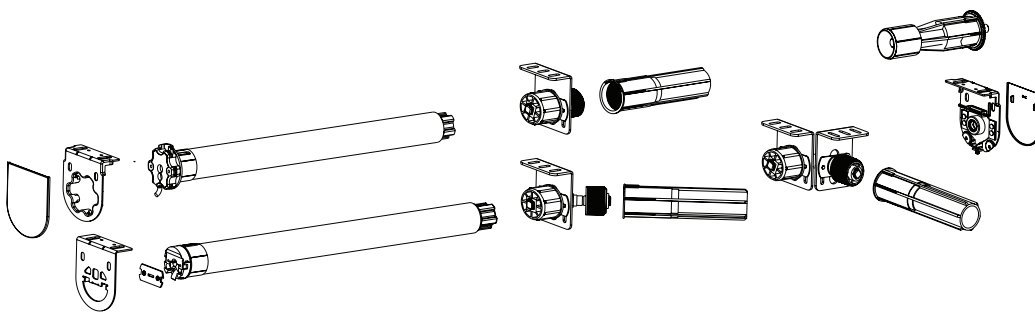
## STANDARD ROLLER TUBE AND ACCESSORIES



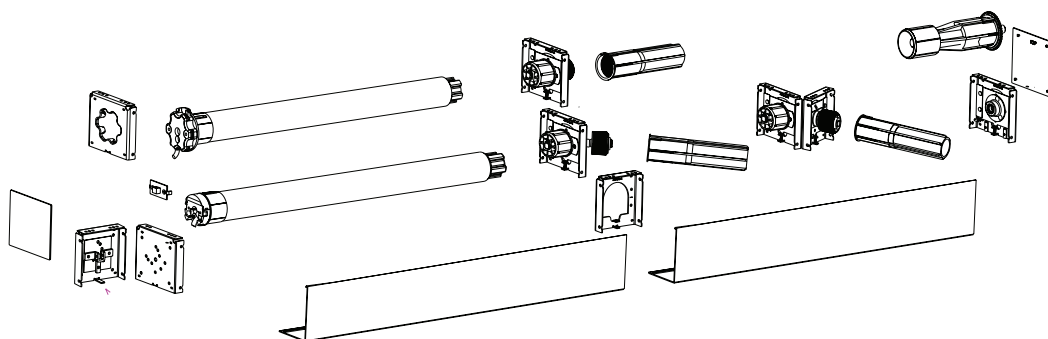
## MOTOR BRACKETS AND ACCESSORIES FOR SOMFY 500 SERIES MOTORS



## MOTOR U-JOINT INDEXABLE BRACKET FOR SOMFY 500 SERIES MOTORS



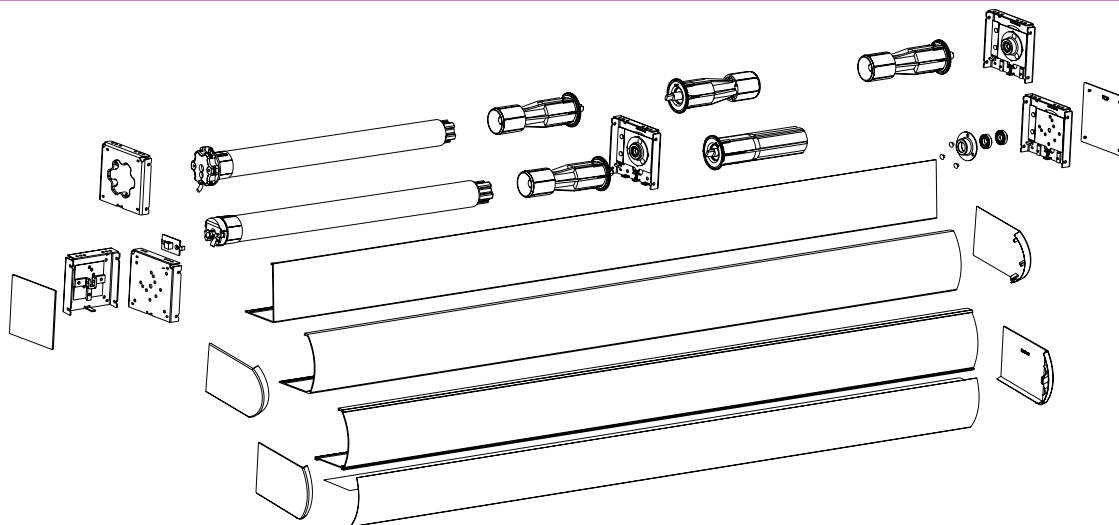
## 4" ADJUSTABLE U-JOINT INDEXABLE FASCIA BRACKET FOR SOMFY 500 SERIES MOTORS



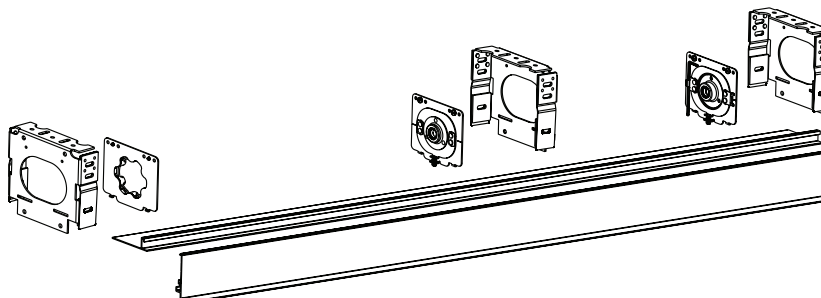
# 500 SERIES HARDWARE SYSTEMS

ZMC®

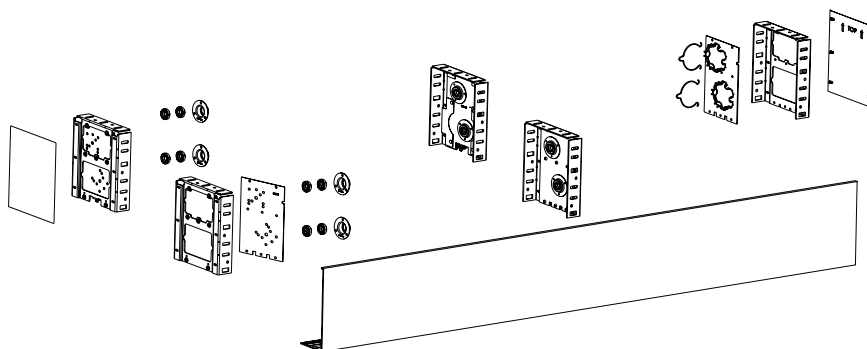
## 4" FASCIA BRACKETS FOR SOMFY 500 SERIES MOTORS



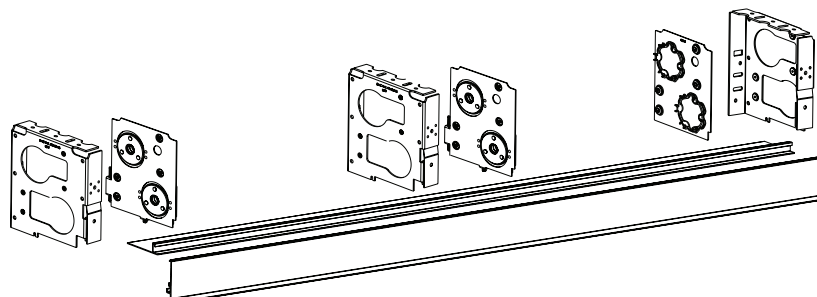
## 5.5" SMART HEAD BOX SYSTEM FOR SOMFY 500 SERIES MOTORS



## 7" FASCIA SYSTEM FOR SOMFY 500 SERIES MOTORS



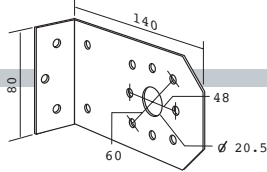
## 7" SMART HEAD BOX SYSTEM FOR SOMFY 500 SERIES MOTORS



# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES MOTOR BRACKETS

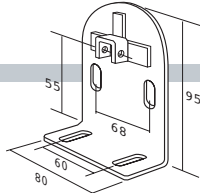
### LT50 Motor Angle Bracket



- Zinc plated steel
- .807 in. diameter through hole
- Maximum motor torque - 40 Nm
- Compatible with # 1781098 idler end bearing support
- Maximum system load - See note below\*

**Part # 9012250**

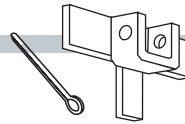
### Universal LT50 Motor Bracket (LS Style) for 10 mm Square Stud



- Zinc plated steel
- Maximum motor torque - 25 Nm
- Horizontally and vertically adjustable
- Maximum system load - 126 Lbs. (57 Kg.)

**Part # 9410665**

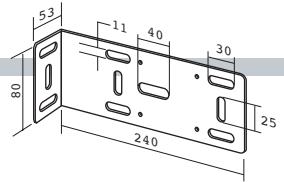
### "U" Shape LS Style Motor Bracket for 10 mm Square Stud



- Maximum motor torque - 25 Nm
- Zinc plated steel
- Maximum system load - See note below\*
- Cotter Pin included

**Part # 9510658**

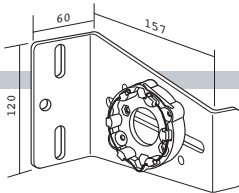
### Heavy Duty Angle Plate



- For ceiling and wall installation in combination with # 9012263
- Black oxide finish
- Compatible with brackets # 9012263, 9701310 and 9132065
- Maximum motor torque - 100 Nm
- Maximum system load - See note below\*

**Part # 9701091**

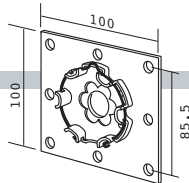
### Motor Bracket LT60 FTS



- Zinc plated steel, gauge 3 (0.24 in.)
- For use with LT FTS 60
- Maximum motor torque - 100 Nm
- Includes universal bracket with spring ring
- Maximum system load - 441 Lbs. (200 kg.)
- Must use locking spring ring # 9910002 to obtain full torque and load capability.
- Compatible with idler bracket # 9430603 and intermediate bracket # 9420763

**Part # 9430601**

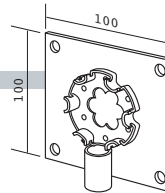
### Motor Bracket With Spring Ring (100 mm x 100 mm)



- Four mounting holes provided with a through hole in the center of the bracket
- Zinc plated steel
- Lateral space requirement for installation: 28 mm
- Maximum motor torque - 85 Nm
- Maximum system load - See note below\*

**Part # 9763508**

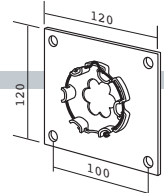
### LT50/60 Motor Bracket with 1/2" Conduit Connector



- Four mounting holes provided
- Lateral space requirement: 28 mm
- Zinc plated steel
- Must be used with either spring ring # 9206033, or locking spring ring # 9910002 (not included)
- Maximum motor torque - 85 Nm or 100 Nm when locking spring ring # 9910002 is used.

**Part # 9012262**

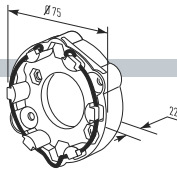
### Motor Bracket With Spring Ring (120 mm x 120 mm)



- Four mounting holes provided
- Zinc plated steel
- Lateral space requirement for installation: 28 mm
- Maximum motor torque - 85 Nm
- Maximum system load - See note below\*

**Part # 9763503**

### Universal Bracket with Spring Ring



Spring ring needs to be replaced with locking spring ring #9910002 to obtain maximum torque and load capability.

Note: Screws must engage bracket's thread on its full length with recommended tightening torque of 105 in. lbs. for Grade 8 bolts.

### Universal Bracket with Spring Ring - Zamak Aluminum Alloy Material

- 2 holes for M6 hex screw on 48 mm diameter
- 2 holes on M8 hex screw on 60 mm diameter
- 2 countersunk holes for M8 screw on 60 mm diameter
- No threaded holes
- Used for bolts to protrude through back of bracket
- Lateral space requirement for installation: 27 mm
- Maximum motor torque - 85 Nm or 100 Nm when used with locking spring ring # 9910002, and M8 bolts
- Maximum system load - 441 Lbs. (200 kg.) when used with locking spring ring # 9910002

**Part # 9420631**

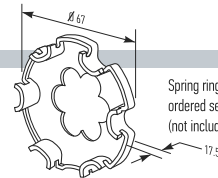
Same as above: Threaded to accept Inch Series threaded screws 1/4 - 20, 5/16 - 18

**Part # 9910021**

Same as above: Threaded to accept M6 and M8 bolts

**Part # 9910001**

### Weld-on Bracket Without Spring Ring



Spring ring must be ordered separately (not included)

- Steel bracket without surface treatment
- For welding to mounting plates of all kinds. Lateral space requirement for installation: 23 mm + thickness of mounting plate
- Must be used with spring ring # 9206033 or locking spring ring # 9910002 (not included)
- Maximum motor torque - 85 Nm or 100 Nm depending on spring ring and quality of weld
- Maximum system load - 441 Lbs. (200 kg.) when used with locking spring ring # 9910002

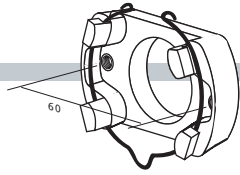
**Part # 9206029**

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES MOTOR BRACKETS

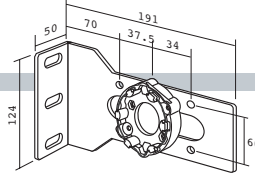
### LT50 Compact Bracket



- Two mounting holes with molded in M5 nuts 60 mm apart
- Maximum motor torque 35Nm when used with Locking Spring Ring
- Black nylon material

Part # 9708461

### Heavy Duty Angle Plate with Universal Motor Bracket



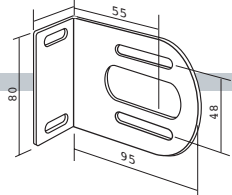
- With two M8 screws and nuts included
- Angle plate (zinc plated steel)
- Three adjustment positions possible
- Maximum motor torque - 85 Nm or 100 Nm when used with locking spring ring # 9910002
- Maximum system load - 287 Lbs. (130 Kg.) or 441 Lbs. (200 Kg.) with locking spring ring # 9910002

Part # 9420602

#### Heavy Duty Angle Plate - Part # 9420604

- Same as above but without the universal motor bracket

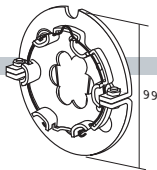
### LT50 Angle Plate with Elongated Holes Allowing Adjustment



- Zinc plated steel
- Compatible with idler end bearing support # 1781098 and intermediate bearing support # 9146011
- Maximum motor torque - 50 Nm
- Maximum load - 152 Lbs. (69 Kg.)

Part # 9410639

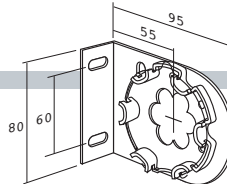
### LT50/60 Radial Motor Bracket



- Maximum motor torque 80 Nm
- Zinc plated steel
- Allows for easy removal of LT motor without removing entire bracket. It disassembles in 2 pieces with one part remaining attached to structure
- Maximum system load - See note below\*

Part # 9420620

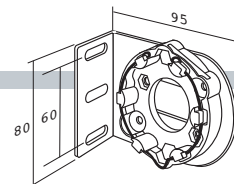
### LT50 Universal Motor Bracket



- Maximum motor torque - 50 Nm
- Zinc plated steel
- Maximum system load - 254 Lbs. (115 Kg.)
- Compatible with idler bracket # 9410635, # 9410633 and intermediate bracket # 9410648

Part # 9410651

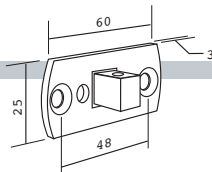
### LT50 Adjustable Universal Motor Bracket



- Zinc plated steel
- Without molded nuts
- Maximum motor torque - 50 Nm
- Maximum system load - 254 Lbs. (115 Kg.)

Part # 9002550

### Retrofit Brackets



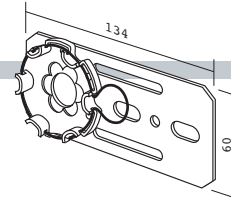
- Zinc plated steel - yellow
- LO LT motor bracket with a 10 mm stud. Vertical pin hole
- Mounting screws # 9670013 not included
- Maximum motor torque - 25 Nm for new LT applications
- 35 Nm for replacing LS motor with LT motor
- Maximum system load - 154 Lbs. ( 70 Kg.)

Part # 9206020

Same as above, except pin hole is horizontal

Part # 9206021

### Adjustable Motor Bracket with Spring Ring



- Zinc plated steel
- Horizontally and Vertically adjustable
- Lateral space requirement for installation: 27 mm
- Maximum motor torque 50 Nm
- Maximum system load - See note below\*

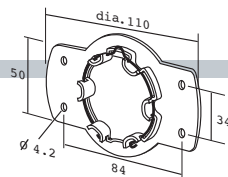
Part # 9703948

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES MOTOR BRACKETS

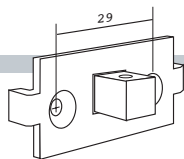
### LT50 HA Motor Bracket\*



- Allows flush mounting of the motor head against the mounting surface
- Zinc plated steel
- Maximum motor torque - 50 Nm

Part # 9410715

### LT RH Motor Bracket



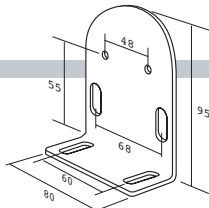
- Pin hole is vertical
- Zinc plated steel
- 10 mm square stud
- Maximum motor torque - 25 Nm
- Mounting Screws # 100405B included
- Maximum system load - 154 Lbs. (70 Kg.)

Part # 9910016

Same as above except pin hole is horizontal

Part # 9910017

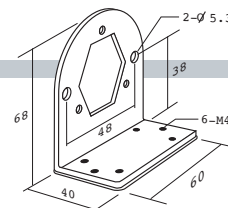
### LT50 Angle Bracket\*



- For ceiling and wall installation
- Zinc plated steel
- Horizontally and vertically adjustable
- Maximum motor torque - 50 Nm

Part # 9410637

### CTS50 Motor Mounting Bracket\* (Cord Take-Up System)

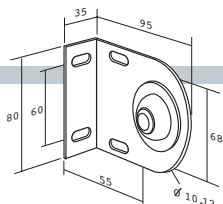


- Zinc plated steel
- Attaches directly to LT50 motor head (48 mm on center)
- Adaptable for Nichibei headrail (70 x 70)
- Maximum motor torque - 10 Nm

Part # 1781110

## 500 SERIES IDLER BRACKETS

### LT Idler End Bracket (inside diameter 10 mm)



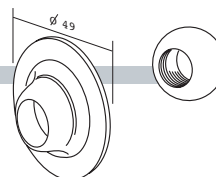
- Zinc plated steel
- 10 mm ID Nylon ball bearing
- Compatible with motor brackets # 9410665 and # 9410651
- Maximum motor torque - 50 Nm
- Maximum system load 287 Lbs. (130 Kg.)

Part # 9410635

Same but with a 12 mm ID Nylon Ball Bearing

Part # 9410633

### Idler Bracket 10 mm Ball Bearing and Holder Kit



Part # 9012657

Ball Bearing with 10 mm ID

Part # 9410803

Ball Bearing with 12 mm ID

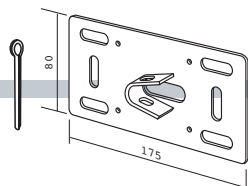
Part # 9028665

### Ball Bearing Holder

- Used with # 9410803 or # 9028665 ball bearings
- Zinc plated steel
- Maximum motor torque - 50 Nm
- Maximum system load - up to 287 Lbs. (130 Kg.)

Part # 1781030

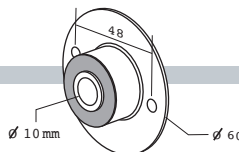
### Heavy Duty Idler Bracket\*



- Used with end cap having stationary 16 mm diameter shaft
- Cotter pin holding end cap's shaft included
- Zinc plated steel
- Maximum motor torque - 100 Nm

Part # 9132065

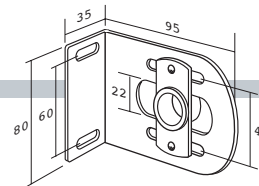
### LT50 Round Anti-Vibration Idler Bracket\*



- Zinc plated steel with a 10 mm round insert surrounded by rubber
- Can be mounted on # 9410637
- Maximum motor torque - 20 Nm
- Can reduce sound levels by 2-4 dB

Part # 9701310

### LT50 Idler Bracket with 14 mm ID Bearing\*



- Zinc plated steel
- Adjustable bearing location
- Maximum motor torque - 50 Nm

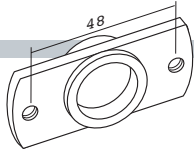
Part # 9002540

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES IDLER BRACKETS

### Idler End Bearing Support for 14 mm Diameter Shaft\*



- Two threaded mounting holes for M5 screws
- Sintered Brass in a zinc plated steel plate
- Mounting hardware included
- Compatible with shaft # 1781011 and brackets # 9012250 and # 9146001
- Maximum motor torque 50 Nm

**Part # 1781098**

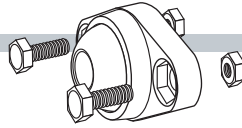
Same as above but hardware not included

**Part # 9146007**

**With 16 mm Dia. Shaft (no hardware)**

**Part # 9146011**

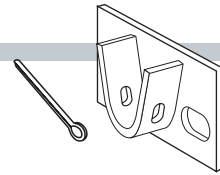
### Idler End 12 mm Nylon Ball Bearing with Holder



- Cast aluminum
- Compatible with bracket # 9420604
- Maximum motor torque:
  - FTS range - 25 Nm
  - LT range - 100 Nm
- Maximum system load - 287 Lbs. (130 Kg.)

**Part # 9430610**

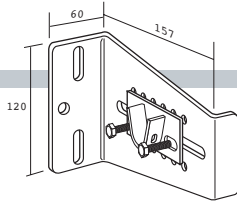
### Idler End Cap Holder and Cotter Pin



- Zinc plated steel
- Compatible with bracket # 9420604
- Used with end cap having stationary 16 mm diameter shaft
- Maximum motor torque when properly installed with cotter pin:
  - FTS range - 55 Nm
  - LT range - 100 Nm
- Maximum system load - 441 Lbs. (200 Kg.)
- Open end of the "U" must face up
- Cotter pin 6.3mm x 80 mm (zinc plated) # 132444A

**Part # 9540786**

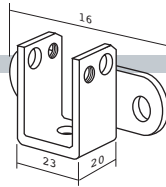
### Heavy Duty Idler Bracket with Idler End Cap Holder



- Two screws and cotter pin included
- Zinc plated steel, gauge 3(0.2391 in.)
- Used with end cap having stationary 16 mm diameter shaft
- Maximum motor torque when properly installed with cotter pin:
  - FTS range - 55 Nm
  - LT range - 100 Nm
- Maximum system load - 441 Lbs. (200 Kg.)

**Part # 9430603**

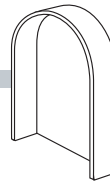
### "U" Shaped Idler Bracket



- Zinc plated steel
- Idler bearing securing screw included
- Maximum motor torque - 40 Nm
- Maximum system load - 254 Lbs. ( 115 Kg.)

**Part # 9127808**

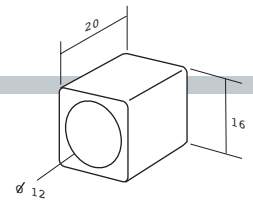
### White Dress Cover for Idler Brackets



- # 9410635, # 9410633 and motor brackets # 9410665 and # 9410651
- White composite

**Part # 9002519**

### Idler Bearing (for Ø 12mm Shaft)



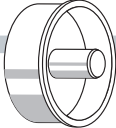
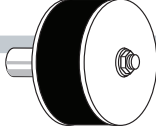
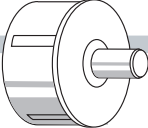

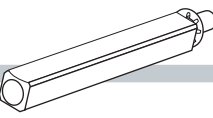
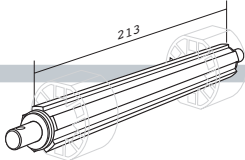
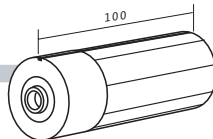
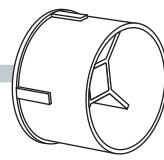
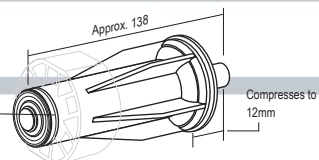
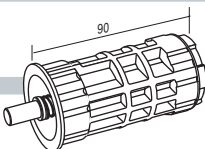
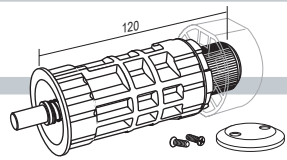
- Nylon material
- Maximum motor torque - 40 Nm
- Compatible with # 9127808
- Maximum system load - 254 Lbs. (115 Kg.)

**Part # 1781015**

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES END CAPS

Die Cast End Cap*	2" Anti-Vibration End Cap	Molded Composite End Cap*	2" Tube Idler End Cap without Shaft
 <ul style="list-style-type: none"> <li>- For tube diameter 2" (50 mm)</li> <li>- Shaft Diameter 0.39" (10 mm)</li> <li>- Maximum motor torque - 50 Nm</li> </ul> <p><b>Part # 9128101</b></p> <p>Same as Above but with 12 mm Shaft</p> <p><b>Part # 9132087</b></p>	 <ul style="list-style-type: none"> <li>- For tube diameter 2" (50 x 1.5 mm, 50 x 1.6 mm)</li> <li>- Shaft Diameter 0.39" (10 mm)</li> <li>- Zinc plated steel parts with molded rubber</li> </ul> <p><b>Part # 9701380</b></p>	 <ul style="list-style-type: none"> <li>- For tube diameter 2.5" (63 mm)</li> <li>- Shaft Diameter 0.59" (15 mm)</li> <li>- Maximum motor torque - 40 Nm</li> </ul> <p><b>Part # 9701116</b></p> <ul style="list-style-type: none"> <li>- For tube diameter 2.0" (50 mm)</li> <li>- Shaft diameter 0.40" (10 mm)</li> <li>- Maximum motor torque - 50 Nm</li> </ul> <p><b>Part # 9700958</b></p>	 <p>NOTE: Set screw must use Lock-tight to prevent screw from vibrating free.</p> <ul style="list-style-type: none"> <li>- Cast aluminum with set screw</li> </ul> <p><b>Part # 9129631</b></p> <p><b>2.5" Tube Idler End Cap without Shaft</b></p> <ul style="list-style-type: none"> <li>- Cast aluminum with set screw</li> </ul> <p><b>Part # 9129632</b></p> <p><b>2.75" Tube Idler End Cap without Shaft</b></p> <ul style="list-style-type: none"> <li>- Cast aluminum with set screw</li> </ul> <p><b>Part # 9129633</b></p>
13 mm Square Drive Shaft with 12 mm Diameter Shaft	Heavy Duty End Cap with 16 mm Diameter Shaft	Roller Tube End Cap with 12 mm Hole*	Idler End Cap for CTS 50 Tube
 <ul style="list-style-type: none"> <li>- Zinc plated steel shaft</li> </ul> <p><b>Part # 1781009</b></p> <p><b>13 mm Square Drive Shaft with 14 mm Diameter Shaft</b></p> <ul style="list-style-type: none"> <li>- Zinc plated steel shaft</li> </ul> <p><b>Part # 1781011</b></p>	 <ul style="list-style-type: none"> <li>- Adaptable to any tube profile using matching LT drives</li> <li>- To be used with Idler bracket accepting stationary shaft # 9430643</li> <li>- Extruded aluminum shaft w/heavy duty ball bearings</li> <li>- Maximum motor torque: <ul style="list-style-type: none"> <li>- FTS range - 55 Nm</li> <li>- LT range - 100 Nm</li> </ul> </li> <li>- Maximum system load - 441 Lbs. (200 Kg.)</li> </ul> <p><b>Part # 9420674</b></p>	 <ul style="list-style-type: none"> <li>- For tube 50 x 1.5 mm</li> <li>- Black composite with ball bearing</li> </ul> <p><b>Part # 9701288</b></p> <p><b>Roller Tube End Cap with 10 mm Hole*</b></p> <p><b>Part # 60903170</b></p>	 <ul style="list-style-type: none"> <li>- Maximum system load - See note below</li> <li>- Used with # 1781112</li> </ul> <p><b>Part # 1781113</b></p>
Universal End Cap with 10 mm Collapsible Shaft	Sonesse 50 Pin End Cap with 10 mm Collapsible Shaft	Sonesse ULTRA 50 Universal End Cap with 10 mm Collapsible Shaft	
 <p>Retaining Clip #4210017 attaches here</p> <p>Approx. 138</p> <p>Compresses to 12mm</p> <ul style="list-style-type: none"> <li>- Directly compatible with 2" tube and requires notched 2" tube and 2" drive held in place with retaining clip included</li> <li>- End cap is adaptable to all tubes w/LT50/60 crown and drive sets</li> <li>- Black nylon</li> <li>- Maximum motor torque: <ul style="list-style-type: none"> <li>- With awning - 50 Nm</li> <li>- With FTS - 25 Nm</li> </ul> </li> <li>- Maximum system load - 88 Lbs. (40 Kg.)</li> </ul> <p><b>Part # 9420800</b></p> <p>Same as above but with 9.15 mm shaft &amp; shorter pin</p> <p><b>Part # 9420814*</b></p> <p>Same as above but with 12 mm shaft - <b>Part # 9420801</b></p> <p>Same as above but with 14 mm Shaft - <b>Part # 9420802</b></p>	 <p>90</p> <ul style="list-style-type: none"> <li>- Ultra Quiet rubber over-molded end cap compatible with 2" tube (requires notched 2" tube)</li> <li>- Black nylon housing with yellow rubber over-mold</li> <li>- 2 roller bearings for smooth, quiet operation</li> <li>- Maximum motor torque: 50 Nm</li> <li>- Maximum system load - 88 Lbs. (40 Kg.)</li> </ul> <p><b>Part # 9016628</b></p> <p>Same as above but with 12 mm Shaft</p> <p><b>Part # 9018228</b></p>	 <p>120</p> <ul style="list-style-type: none"> <li>- Universal Ultra Quiet rubber over-molded end cap is adaptable to all tubes by mounting LT50/60 crown and drive sets (drive stop &amp; screws included)</li> <li>- Black nylon housing with rubber over-mold</li> <li>- 2 roller bearings for smooth, quiet operation</li> <li>- Maximum motor torque: 50 Nm</li> <li>- Maximum system load - 88 Lbs. (40 Kg.)</li> </ul> <p><b>Part # 9019716</b></p> <p>Same as above but with 12 mm Shaft</p> <p><b>Part # 9019717</b></p>	

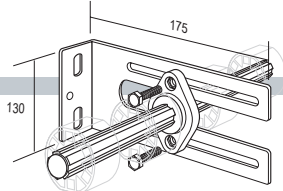
\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.



# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES INTERMEDIATE BRACKETS

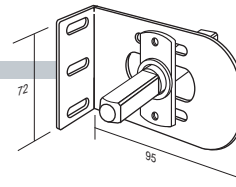
### Heavy Duty LT Intermediate Support Bracket\*



- Will adapt to any tube profile using tube matching LT drives
- The 4 drives are not included and must be specified separately
- Maximum motor torque:  
FTS range - 55 Nm, LT range - 100 Nm
- Heavy gauge 3 (0.24 in.), zinc plated steel
- Extruded aluminum shaft with heavy duty roller bearing

**Part # 9420673**

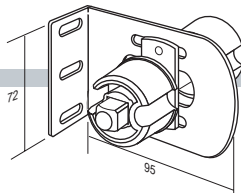
### LT50 Intermediate Bracket with 16 mm ID Bearing



- Zinc plated steel
- 16 mm bearing plate # 9146011 also sold separately
- Square shaft # 1781018 also sold separately
- Maximum motor torque:  
FTS range - 25 Nm, LT50 range - 50 Nm
- Maximum system load - 152 Lbs. (69 Kg.)

**Part # 9002541**

### LT50 Adjustable Intermediate Support Bracket for a 2" Tube



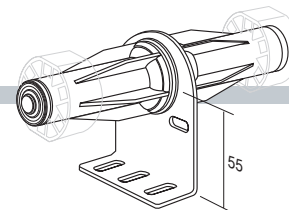
- Zinc plated steel bracket
- Cast aluminum drives, with set screw - set screw must use lock tight to prevent screw from vibrating free
- Maximum motor torque:  
FTS range - 25 Nm, LT50 range - 50 Nm
- Maximum system load - 152 Lbs. (69 Kg.)

**Part # 9012203**

**LT50 Adjustable Intermediate Support  
Bracket for a 2.5" Tube**

**Part # 9012204**

### LT Intermediate Bracket for 2" Tube Only



- Zinc plated steel bracket
- Composite end caps
- Maximum motor torque - 15 Nm
- Requires notched 2" tube for transfer of torque
- Recommended tube used included with 2" LT drives
- Maximum system load - 152 Lbs. (69 Kg.)
- Compatible with LT brackets # 9410665, # 9410651, # 9410635, and # 9410633

**Part # 9410648**

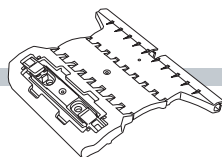
\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

## RIGID LINKS - Recommended to be used in conjunction with Oximo motor.

### Number and location of Rigid Links:

- Minimum of 2 rigid links per rolling shutter.
- Do not exceed 33 lbs (15 kg) hanging load per rigid link.

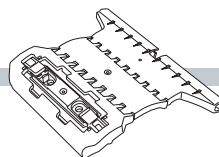
### Rigid Link - 1 Link



- Maximum torque stopping load: 14 Nm
- Slat Size: .32 in. (9 mm)

**Part # 9019327**

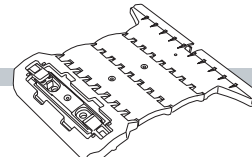
### Rigid Link - 1 Link



- Maximum torque stopping load: 14 Nm
- Slat Size: .55 in. (14 mm)

**Part # 9019328**

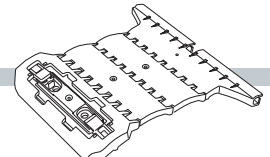
### Rigid Link - 2 Links



- Maximum torque stopping load: 10 Nm
- Slat Size: .32 in. (9 mm)

**Part # 9019329**

### Rigid Link - 2 Links

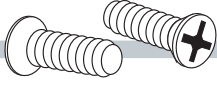



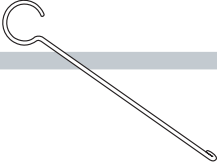
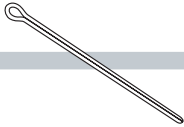
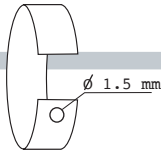
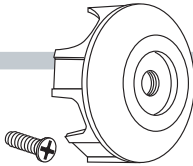
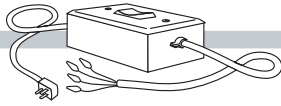
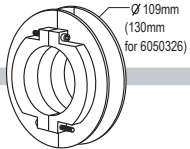
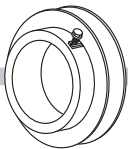
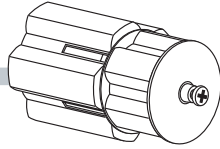


- Maximum torque stopping load: 10 Nm
- Slat Size: .55 in. (14 mm)

**Part # 9019330**

# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES MISCELLANEOUS

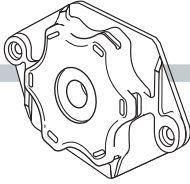
<b>LT50 Motor Mounting Screws-Flat Head, Self Tapping Tri lobe 5 mm Dia. (13 mm Deep)</b>  <b>Part # 9670013</b> LT50 RH Motor Mounting Screws- Flat Head, Self Tapping Tri lobe 4 mm Dia. (9 mm Deep) <b>Part # 100405B</b>		<b>Spring Ring with Loop</b>  - Used with brackets and motors rated up to 80 Nm maximum - Allows for easy hand removal from the bracket - Spring type stainless steel <b>Part # 9685025</b>	<b>Spring Ring</b>  - Used with brackets and motors rated up to 80 Nm maximum - Stainless steel spring type <b>Part # 9206033</b>	<b>Locking Spring Ring</b>  - Must be used with all brackets in combination with the 6100R2 motor or installations where flexing of the tube is abnormally high - Used with brackets and motors rated up to 100 Nm - Spring type stainless steel - Locking screw must be secured to prevent motor from disengaging from the universal bracket <b>Part # 9910002</b>
<b>Pull-off Tool for Spring Ring</b>  - Black finished steel <b>Part # 9206015</b>	<b>Cotter Pin</b>  - 3.5 mm x 45 mm <b>Part # 43500020</b>	<b>Fabric Fastening Clip</b>  - for 2" (50 mm) O.D. Tube - Made out of spring steel <b>Part # 9138028</b> <b>Fabric Fastener</b> - for 2.5" (63 mm) O.D. Tube <b>Part # 9012201</b>	<b>LT50 Stop Wheel</b>  - Screws into the motor output shaft to prevent drive from coming off shaft - Black composite stop <b>Part # 9910004</b> <b>LT60 Stop Wheel</b> - Same as above but with a screw adaptable to the LT60 operator <b>Part # 9012194</b>	<b>Tester Cable - 4 Wire</b>  - Allows easy setting of the LT motor limit switches before connecting the motor to the controlling device <b>Part # 9012116</b> <b>FTS Tester Cable - 5 Wire</b> - Same as above, but for the FTS (Fabric Tension System) <b>Part # 9012117</b>
<b>50 x 1.5 mm Tube Cord Take-up Reel</b>  - Material - Cast aluminum alloy - Shipped unassembled in 4 pieces - Adjustable tape width <b>Part # 9146035</b>  <b>63 x 1.5 mm Tube Cord Take-up Reel</b> <b>Part # 9146071</b>		<b>2" Tube Take-up Reel</b>  - Outside dia. 89 mm - Material ABS - Maximum tape width - 9 mm <b>Part # 1781151</b>		<b>Anti-Blocking System (ABS)</b>  ABS Wheel - Left Rotation - Maximum motor torque 30 Nm ABS Wheel - Right Rotation - Maximum motor torque 30 Nm The input of the ABS wheel fits the motor shaft. The output shaft will accept any of the drive wheels. Drive retaining washer is included. In the up direction 30 Nm can be lifted. If an obstacle is detected in the down direction then the motor will spin freely and not damage the product. A momentary switch or Somfy controls having time out are required <b>Left Rotation Part # 9705415      Right Rotation Part # 9705414</b>  Same as above but with greater torque threshold which is required to activate the ABS - CMO ABS left rotation - maximum motor torque - 30 Nm - CMO ABS right rotation - maximum motor torque - 30 Nm <b>Left Rotation Part # 9706003      Right Rotation Part # 9706004</b>

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

## CMO MECHANICAL ACCESSORIES

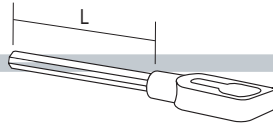
### CMO Motor Bracket



- Converts a CMO motor head to be compatible with standard LT brackets
- Allows the motor to be rotated in 60° increments
- Delivered with two motor mounting screws
- Black composite
- Maximum motor torque - 80 Nm
- Maximum system load- See note below\*

Part # 9910051

### CMO Awning Eye with 2.36" (60 mm) Long 7 mm Hex Shaft



Part # 9685114

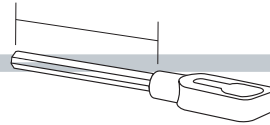
### CMO Awning Eye with 6.5" (165 mm) Long 7 mm Hex Shaft

Part # 9685136

### CMO Awning Eye with 4" (100 mm) Long 7 mm Hex Shaft

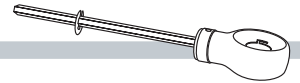
Part # 9685148

### Sunea Awning Eye with 2.36" (60 mm) Long 7 mm Hex Shaft



Part # 9016332

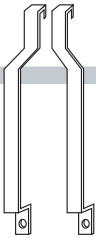
### LT CMO Awning Eye Compatible with Geiger Crank Handles



- Length of the shaft is (100 mm) 4"
- Stainless steel pin for eyepiece mounting to 7 mm Hex shaft
- Stainless steel stop washer & socket head screw (also sold separately)
- Zinc plated steel shaft

Part # 9707287

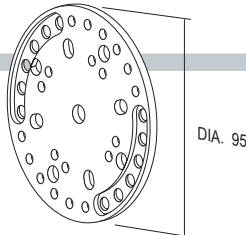
### CMO Motor Limit Setting Tool



- Allows setting the travel limits of the motor when the limit switch buttons are hard to access
- Zinc plated steel

Part # 9910019

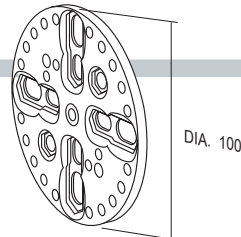
### Sunea RTS CMO Universal Bracket



- U.S. thread 1/4 - 20, 5/16 - 18 threads
- Delivered without motor mounting screws
- Zamak aluminum alloy material
- Maximum motor torque - 50 Nm
- Maximum system load - See note below\*

Part # 9015802

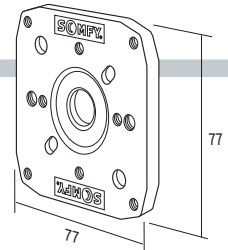
### CMO Round Awning Motor Bracket



- U.S. thread 1/4 - 20, 5/16 - 18 threads
- Delivered without motor mounting screws
- Black finished aluminum alloy
- Maximum motor torque - 100 Nm (must be used with 5/16 - 18 bolts at maximum torque)
- Maximum system load - See note below\*

Part # 9420648

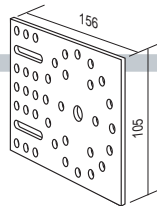
### CMO ME Square Awning Motor Bracket



- U.S. thread 1/4 - 20, 5/16 - 18 threads
- Delivered with two motor mounting screws (3/16" Socket Head)
- Black finished aluminum alloy
- Maximum motor torque - 100 Nm (must be used with 5/16 - 18 bolts at max. torque)
- Maximum system load - See note below\*

Part # 9910041

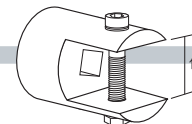
### Standard LT and LT CMO Motor Mounting Plate



- Allows for different orientation of the LT CMO motor head in 15 increments
- Zinc plated steel
- Maximum motor torque - 100 Nm
- Maximum system load - See note below\*

Part # 9012293

### LT50 Differential Torque Tube Connectors



- For square link bars (16 x 1 mm)
- Zinc plated steel

Part # 9012778

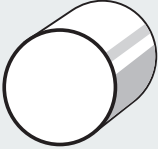

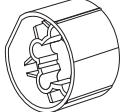
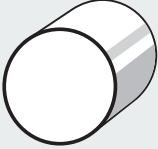
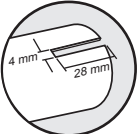
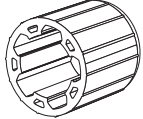
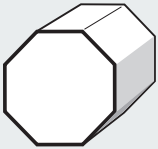
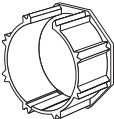
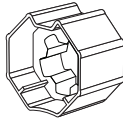
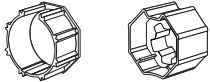
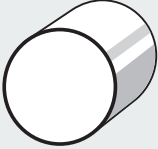
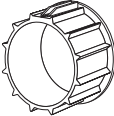
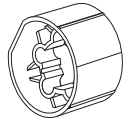
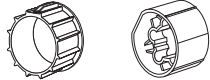
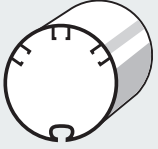
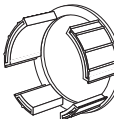
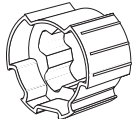
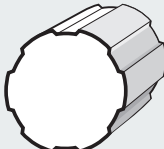
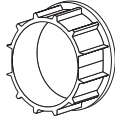
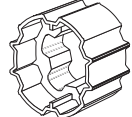
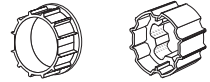
- For round link bars (Dia. 16 x 1 mm)

Part # 9910045

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

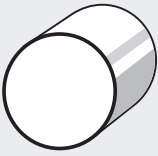

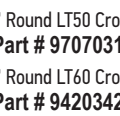
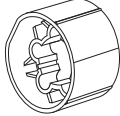
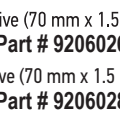


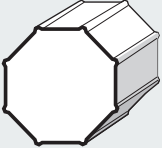
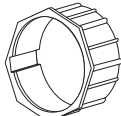
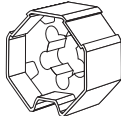


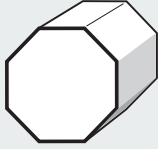
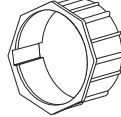



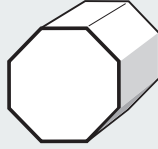
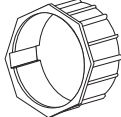
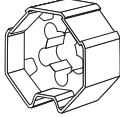



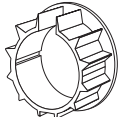
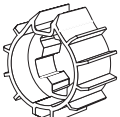


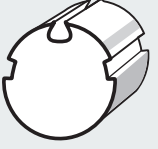
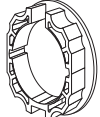
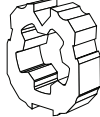
## CROWNS AND DRIVES

TUBE PROFILE	CROWN	DRIVE	SET
 <p>ø 2 in. / 50 mm</p>	<p>No adaptor crown is required but 2 in. tube must be notched according to the dimensions shown below</p> 	 <p>2.0" Round LT50 Drive (50 mm x 1.5 mm) - Soft clip <b>Part # 9206089</b></p> <p>2.0" Round LT50 Drive (50 mm x 1.5 mm) - Hard clip <b>Part # 9206088</b></p>	
 <p>ø 2 in. / 50 mm</p>	<p>No adaptor crown is required but 2 in. tube must be notched according to the dimensions shown below</p> 	 <p>Sonesse 50 Drive Wheel (50 mm x 1.5 mm) - Soft clip <b>Part # 9018455</b></p> <p>Sonesse 50 Drive Wheel (50 mm x 1.5 mm) - Hard clip <b>Part # 9016630</b></p>	
 <p>ø 60 mm Octagonal IMBAC</p>	 <p>60 mm Octagonal LT50 Crown <b>Part # 9707025</b></p>	 <p>60 mm Octagonal LT Drive <b>Part # 9751001</b></p>	 <p>60 mm Octagonal LT50 Set <b>Part # 9012233</b></p>
 <p>ø 2.5 in. / 63 mm</p>	 <p>2.5" Round LT50 Crown <b>Part # 9707026</b></p>	 <p>2.5" Round LT Drive (63 mm x 1.5 mm) - Soft clip <b>Part # 9206041</b></p> <p>2.5" Round LT Drive (63 mm x 1.5 mm) - Hard clip <b>Part # 9206019</b></p>	 <p>2.5" Round LT50 Set "Hard Clip" <b>Part # 9012231</b></p>
 <p>ø 65 mm MADOPRON Sun Master</p>	 <p>SM 65 LT50 Crown - 3 Grooves <b>Part # 9707030</b></p>	 <p>SM 65 LT Drive <b>Part # 9751002</b></p>	
 <p>ø 65 mm IMBAC</p>	 <p>165 LT50 Crown <b>Part # 9707024</b></p>	 <p>165 LT50 Drive <b>Part # 9751004</b></p>	 <p>165 LT50 Set <b>Part # 9012240</b></p>

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

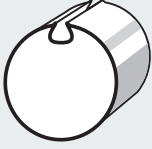

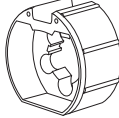

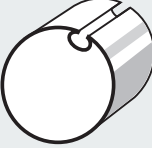
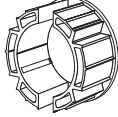
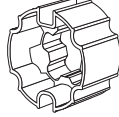
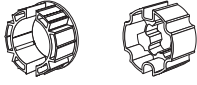
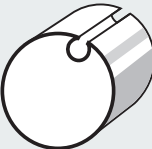
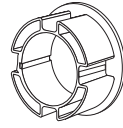
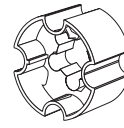

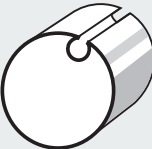
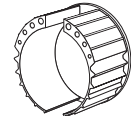
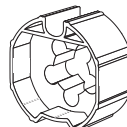
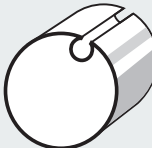
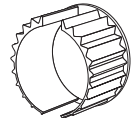
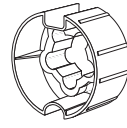
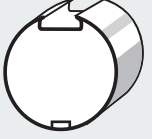
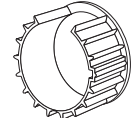
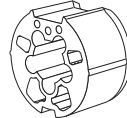
## CROWNS AND DRIVES

TUBE PROFILE	CROWN	DRIVE	SET
 <p>ø 2.75 in. / 70 mm</p>	 <p>2.75" Round LT50 Crown <b>Part # 9707031</b></p>  <p>2.75" Round LT60 Crown <b>Part # 9420342</b></p>	 <p>2.75" Round LT Drive (70 mm x 1.5 mm) - Soft clip <b>Part # 9206026</b></p>  <p>2.75" Round LT Drive (70 mm x 1.5 mm) - Hard clip <b>Part # 9206028</b></p>	 <p>2.75" Round LT50 Set <b>Part # 9012232</b></p>  <p>2.75" Round LT60 Set <b>Part # 9012246</b></p>
 <p>ø 70 mm Octagonal IMBAC</p>	 <p>70 mm Octagonal LT60 Crown <b>Part # 9705340</b></p>	 <p>70 mm Octagonal LT Drive <b>Part # 9761002</b></p>	 <p>70 mm Octagonal LT60 Set <b>Part # 9012247</b></p> 
 <p>ø 70 mm Octagonal IMBAC</p>	 <p>70 mm Octagonal LT60 Crown <b>Part # 9705340</b></p>	 <p>70 mm Octagonal Aluminum LT50/60 Drive <b>Part # 9011878</b></p>	 <p>70 mm Octagonal Aluminum LT50/60 Drive Wheel Kit (crown not included) <b>Part # 9012227</b></p> 
 <p>ø 70 mm Octagonal IMBAC</p>	 <p>70 mm Octagonal LT50 Crown (includes 2.5" LT50 Step-up Adaptor #9707026) <b>Part # 9012328</b></p>	 <p>70 mm Octagonal LT Drive <b>Part # 9761002</b></p>	 <p>70 mm Octagonal LT50 Set <b>Part # 9012234</b></p> 
 <p>ø 70 mm DOHNER</p>	 <p>DS 70 LT50 Crown (3 mm offset) <b>Part # 9707034</b></p>	 <p>DS 70 LT Drive (0.8 - 1 mm wall thickness) (3 mm offset) <b>Part # 9751005</b></p>	 <p>DS 70 LT50 Set (3 mm offset) <b>Part # 9012237</b></p> 
 <p>ø 71 mm AMA</p>	 <p>AMA/P71 LT50 Crown <b>Part # 9997118</b></p>	 <p>AMA/P71 LT50 Drive <b>Part # 9751015</b></p>	

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

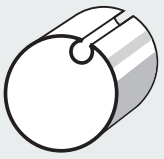
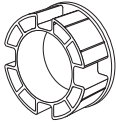
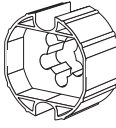
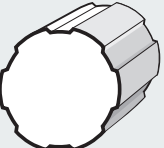
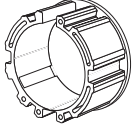
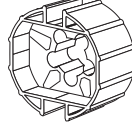
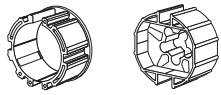
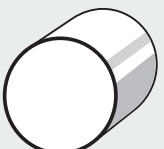
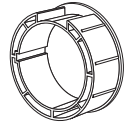
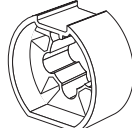

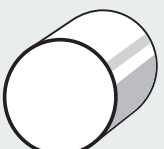



## CROWNS AND DRIVES

TUBE PROFILE	CROWN	DRIVE	SET
 <p>ø 72 mm PERMA</p>	 <p>P72 LT60 Crown (4 mm offset) <b>Part # 9277167</b> P72 LT50 Set (4 mm offset) <b>Part # 9012329</b></p>	 <p>P72 LT Drive (4 mm offset) <b>Part # 9761011</b></p>	 <p>P72 LT50 Crown Set (4 mm offset) <b>Part # 9012235</b></p>
 <p>ø 74 mm DOHNER</p>	 <p>DS 74 LT50 Crown <b>Part # 9707037</b></p>	 <p>DS 74 LT50 Drive <b>Part # 9751009</b></p>	 <p>DS 74 LT50 Set <b>Part # 9012238</b></p>
 <p>ø 78 mm IMBAC</p>	 <p>DS 78 LT50 Crown <b>Part # 9707027</b> DS 78 LT60 Crown <b>Part # 9705341</b></p>	 <p>DS 78 LT50/60 Drive <b>Part # 9761001</b></p>	 <p>DS 78 LT50 Set <b>Part # 9012239</b></p>
 <p>ø 78 mm MITSAVILA</p>	 <p>DS 78/R LT50 Crown (4.4 mm offset) <b>Part # 9707640* + Part # 9707026*</b> * Both parts required for LT50 compatibility DS 78/R LT60 Crown (4.4 mm offset) <b>Part # 9707640</b></p>	 <p>DS 78/R LT Drive (4.4 mm offset) <b>Part # 9761005</b></p>	
 <p>ø 78 mm IMBAC</p>	 <p>DS 78/D LT50 Crown (2.5 mm offset) * Both parts required for LT50 compatibility <b>Part # 9707639* + Part # 9707026*</b> DS 78/D LT60 Crown (2.5 mm offset) <b>Part # 9707639</b></p>	 <p>DS 78/D LT Drive (2.5 mm offset) <b>Part # 9761004</b></p>	
 <p>ø 78 mm MHZ</p>	 <p>LT60 Crown (78 mm) <b>Part # 9762012</b></p>	 <p>LT60 Drive (78 mm) <b>Part # 9761012</b></p>	

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# 500 SERIES MECHANICAL ACCESSORIES

## CROWNS AND DRIVES

TUBE PROFILE	CROWN	DRIVE	SET
 <p>ø 85 mm DOHNER</p>	 <p>DS 85 LT50 Crown <b>Part # 9707035</b> DS 85 LT60 Crown <b>Part # 9705776</b></p>	 <p>DS 85 LT Drive <b>Part # 9761003</b></p>	
 <p>ø 85 mm IMBAC</p>	 <p>I85 LT60 Crown <b>Part # 9690085</b></p>	 <p>I85 LT Drive <b>Part # 9420300</b></p>	 <p>I85 LT60 Set <b>Part # 9012222</b></p>
 <p>ø 3.5" / 89 mm</p>	 <p>3.5" Round LT50 Crown (81 mm x 1 mm) <b>Part # 9012656</b> 3.5" Round LT60 Crown (89 mm x 2 mm) <b>Part # 9520312</b></p>	 <p>3.5" Round LT Drive (89 mm x 2 mm) <b>Part # 9420303</b></p>	 <p>3.5" Round LT50 Set <b>Part # 9012236</b> 3.5" Round LT60 Set <b>Part # 9012248</b></p>
 <p>ø 4" / 102 mm</p>	 <p>4.0" Round LT60 Crown <b>Part # 9420370</b></p>	 <p>4.0" Round LT Drive (102 mm x 2 mm) <b>Part # 9420304</b> 4.0" Round LT Drive (101.6 mm x 3.6 mm) <b>Part # 9420309</b></p>	 <p>4.0" Round LT60 Set <b>Part # 9012221</b></p>

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.



# 500 SERIES MECHANICAL ACCESSORIES

## 500 SERIES STANDARD AND CMO PRODUCT KITS

U.S. 3/4" SS Hardware Kit	U.S. 1" SS Hardware Kit	U.S. 1.25" SS Hardware Kit
1/4 - 20 x 3/4 hex head SS 18-8 bolt 1/4 flat washer SS 18-8 1/4 split lock washer 18-8  Qty. in package - 2 each  <b>Part # 9012297</b>	1/4 - 20 x 1 hex head SS 18-8 bolt 1/4 flat washer SS 18-8 1/4 split lock washer 18-8  Qty. in package - 2 each  <b>Part # 9012298</b>	1/4 - 20 x 1.25 hex head SS 18-8 bolt 1/4 flat washer SS 18-8 1/4 split lock washer 18-8  Qty. in package - 2 each  <b>Part # 9012299</b>
Metric 20 mm SS Hardware Kit	Metric 25 mm SS Hardware Kit	Metric 30 mm SS Hardware Kit
M6 x 20 mm hex head cap screw SS Lock washer split M6 SS A2 M6 flat washer SS A2  Qty. in package - 2 each  <b>Part # 9012300</b>	M6 x 25 mm hex head cap screw SS Lock washer split M6 SS A2 M6 flat washer SS A2  Qty. in package - 2 each  <b>Part # 9012301</b>	M6 x 30 mm hex head cap screw SS Lock washer split M6 SS A2 M6 flat washer SS A2  Qty. in package - 2 each  <b>Part # 9012302</b>
CMO Round Awning Override Kit	CMO ME Square Awning Override Kit	
1/4 - 20 x 1.25 hex head SS 18-8 bolt 1/4 - 20 x 7/8 socket head cap screw Nut hex 1/4 - 20 18-8 SS 1/4 flat washer SS 18-8 1/4 split lock washer 18-8 CMO awning bracket with US thread CMO awning override short shaft Plastic bag 5 x 6 x .04  Qty. in package - 2 each  <b>Part # 9012348</b>	1/4 - 20 x 3/4 hex head SS 18-8 bolt 1/4 - 20 x 1.25 hex head SS 18-8 bolt Nut hex 1/4 - 20 18-8 SS 1/4 flat washer SS 18-8 1/4 split lock washer 18-8 CMO awning bracket with ME US thread CMO awning override short shaft Plastic bag 5 x 6 x .04  Qty. in package - 2 each  <b>Part # 9012349</b>	
CMO Awning Kit without Awning Eye	CMO ME Awning Kit without Awning Eye	
1/4 - 20 x 1.25 hex head SS 18-8 bolt 1/4 - 20 x 7/8 socket head cap screw Nut hex 1/4 - 20 18-8 SS 1/4 flat washer SS 18-8 1/4 split lock washer 18-8 CMO awning bracket with US thread Plastic bag 5 x 6 x .04  Qty. in package - 2 each  <b>Part # 9012362</b>	1/4 - 20 x 3/4 hex head SS 18-8 bolt 1/4 - 20 x 1.25 hex head SS 18-8 bolt Nut hex 1/4 - 20 18-8 SS 1/4 flat washer SS 18-8 1/4 split lock washer 18-8 CMO ME awning bracket with US thread Plastic bag 5 x 6 x .04  Qty. in package - 2 each  <b>Part # 9012363</b>	

\* Note: Maximum system load will vary depending on application. SOMFY recommends testing of component in actual application to determine its suitability.

# DECOFLEX KEYPAD BUTTON ENGRAVING FORM

<https://www.somfypro.com/decoflex-custom-button>

<https://www.somfypro.ca/decoflex-custom-button>

Customer Name: \_\_\_\_\_ Customer #: \_\_\_\_\_

## SHIPPING

### Shipping Information

Ship to: Default Shipping Address ☐ Drop Ship ☐  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_

### Project Information

Project Name: \_\_\_\_\_  
Installer Name/Company: \_\_\_\_\_  
P/O #: \_\_\_\_\_ Order #: \_\_\_\_\_  
Area: \_\_\_\_\_  
Room: \_\_\_\_\_

## STYLE

### Button Color

WHITE ☐ #9018259  
IVORY ☐ #9018260  
BLACK ☐ #9018261

### Switch Type

RTS ☐ Somfy Digital Network (SDN) RS485 ☐ Dry Contact ☐  
*Including the SDN Group Keypad Available in White only* *Available in White only*

## ENGRAVING OPTIONS

### Buttons (A-F)

9 Characters Maximum (including spaces)

QTY.

A									
B									
C									
D									
E									
F*									
G									
H									

NOTE:

\*(F): Command Button by default is labeled STOP on the DecoFlex Range of keypads.

G and H buttons by default are labeled as follows:

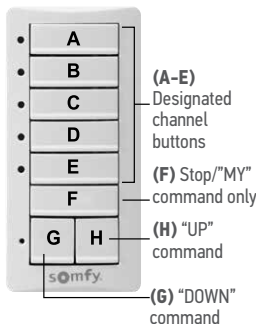
(G = down ▼ icon) WHITE - #9018263 IVORY - #9018264 BLACK - #9018265

(H = up ▲ icon): WHITE - #9018267 IVORY - #9018268 BLACK - #9018269

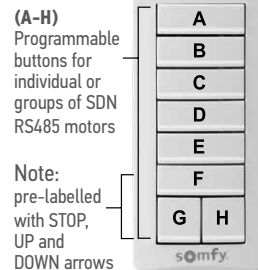
If you prefer they can be substituted with an associated command

NAME (UP, DOWN, LOWER, etc.) up to 5 characters.

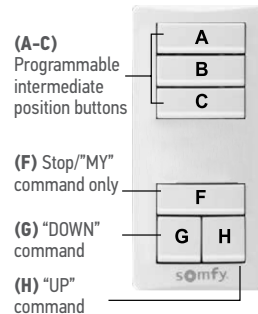
### DecoFlex RTS



### DecoFlex SDN (Standalone or Group)



### DecoFlex Dry Contact



**Engraving Options** - Default option will be used if nothing is selected.

**Character Types: (choose one)**

☐ ALL LETTERS CAPITALIZED (Default) ☐ First Letters Capitalized ☐ As written in above section

**Payment terms of your account will apply.**

**All engraved switches are custom made and are non-cancellable.**

**Please send form to: Fax # 609-495-8117 or e-mail to: [Ordering\\_us@somfy.com](mailto:Ordering_us@somfy.com)**

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## About Somfy®

Somfy has been improving everyday life for more than 270 million people by designing and manufacturing intelligent motorization solutions for interior window coverings and exterior solar protections. Somfy innovates to automate and connect shades, blinds, draperies, awnings, rolling shutters, exterior screens & pergolas for commercial and residential buildings in 58 countries across the globe. With 170+ million motors produced over the last half century, Somfy is committed to creating reliable and sustainable solutions that promote the best way of living and well-being for all.

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