RAISING EFFICIENCY AND LOWERING COSTS WITH MOTORIZED SHADING SYSTEMS

Motorized shading systems from SWFcontract and Somfy can play a key role in both raising energy efficiency and lowering heating and cooling costs in commercial and residential buildings.

Somfy’s exclusive radio control system enables users to adjust motorized horizontal blinds, cellular shades, pleated shades, and solar shades with the touch of a button—either from hand-held remotes or wall switches. Our climate sensors and timers are stand alone or can be integrated into home or office automation systems, to adjust shades based on external conditions. Either way, these exceptional motorized products can manage temperature, moderate heat gain/loss, and optimize natural light while reducing glare. This profoundly improves occupants’ comfort and productivity, while conserving energy and lowering heating and cooling costs.

Best of all, SWFcontract and Somfy offer a range of scalable solutions for small, large, or custom projects. So whether you are simply interested in upgrading to shading and occupancy switches, or installing tailor made lighting and shading controlled through a building management system, we have the combination of products and components to make a more efficient, cost-effective project, and a better indoor environment.
RTS MOTORS
RADIO TECHNOLOGY SOMFY® (RTS)

Radio Technology Somfy (RTS) is Somfy’s exclusive control platform which enables users to adjust motorized window coverings from virtually anywhere. With a simple press of a button, motorized window coverings move with ease. No need to point or aim the transmitter, because RTS is omni-directional and operates within a range of 65 feet. In the same way a remote garage door opener works, the radio waves travel through walls, making control of motorized products easier than ever. RTS products are designed to work together so you can mix and match controls to create the perfect setting.

MAIN CHARACTERISTICS

- Available with handheld remotes, wireless wall switches, and table top controls
- Range up to 65 ft. for easy operation
- Ability to control all motorized window coverings individually and/or by group with one control
- Secure operation with rolling code, reducing interference with other radio products
- Flexibility to change user preferences with simplified programming

Somfy exclusive: The “MY” feature that lets you program a preferred intermediate position of motorized interior window coverings.

What products can be controlled with RTS?

- 2” Horizontal Blinds
- CrystalPleat® Cellular Shades
- Pleated Shades
- Solar Shades

RTS MOTORS
PRODUCTS AVAILABLE WITH RTS

12 V DC TILT MOTOR

MAIN CHARACTERISTICS

- 12 V DC power
- Controllers available in single- and multi-channel versions
- Timers and sun sensors available
- Simplified integration with home automation systems
- Each RTS motorized blind or shade can be controlled by up to 12 RTS controls and/or accessories
- True plug-and-play system

12 V DC CL32 LIFT MOTOR

MAIN CHARACTERISTICS

- 12 V DC power
- Built-in encoder for precise slat positioning
- Compatible with all Somfy RTS Controls
- Capable of tilting 2” Horizontal products (except Faux Wood)

The Somfy WireFree Tilt motors are completely concealed within the headrail, and the window treatment installs easily with standard hardware. The biggest benefit of the Tilt motor is its ability to be powered by a 12 V DC battery pack, 12 V DC solar recharging battery system, or transformer. The external battery tubes can be easily hidden behind the shade, and the batteries typically last one year (depending on the shade size and frequency of use). These motors are perfect for retrofit applications where power has not previously been provided.

The Somfy Cord Lift WireFree (CL32) motors are completely concealed within the headrail, and the window treatment installs easily with standard hardware. The CL32 motor is uniquely designed to automate pleated and cellular shades. The biggest benefit of the CL32 motor is its ability to be powered by a 12 V DC battery pack, 12 V DC solar recharging battery system, or transformer. The external battery tubes can be easily hidden behind the shade, and the batteries typically last one year (depending on the shade size and frequency of use). These motors are perfect for retrofit applications where power has not previously been provided.

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### RTS MOTORS

**PRODUCTS AVAILABLE WITH RTS**

#### 12 V DC R28 ROLLER MOTOR

**MAIN CHARACTERISTICS**

- Battery or low-voltage wired power options
- Compatible with all Somfy RTS Controls
- Capable of lifting Solar Shades up to 8 lb.

The Somfy R28 motors are tubular motors that fit inside the tube with only a small portion of the motor outside the tube. The biggest benefit of the R28 motor is its ability to be powered by a 12 V DC battery pack, 12 V DC solar recharging battery system, or transformer. The external battery tubes can be easily hidden behind the shade, and the batteries typically last one year (depending on the shade size and frequency of use). These motors are perfect for retrofit applications where power has not previously been provided. The R28 series motors are the smallest of the Somfy motors for roller shades. The R28 motors can lift 8 lb. on a 1.5" tube and can be used on shades up to 85" x 110" depending on the weight of the material. The motors install in the tubes easily without any extra hardware, and the shades mount with common hardware making installation simple. R28 motorized shades are built with 1.5" tubes.

#### 24 V DC ST30 ROLLER MOTOR

**MAIN CHARACTERISTICS**

- Low-voltage wired power (24 V DC)
- 44 dB (quiet operation)
- Variable-speed setting (6–28 rpm)
- Soft limit stop
- Compatible with all Somfy RTS Controls
- Capable of lifting Solar Shades up to 17.5 lb.

The Somfy Sonesse™ 30 (ST30) motors are tubular motors that fit inside the tube with only a small portion of the motor outside the tube. The biggest benefits to the ST30 motor are its quiet operation and variable speed option. The Sonesse 30 motor can lift 17.5 lb. on a 1.5" tube. The Sonesse 30 motors are powered by a transformer. The ST30 motorized roller shades are available as RTS RF-controlled motors. These motors are commonly used on shades up to 85" x 110" depending on the weight of the material. The ST30 series of motors install in the tubes easily without extra hardware, and the shades mount with common installation brackets. ST30 motorized shades are built with 1.5" tubes depending on the width of the shade. The user can power these motors through power supplies for individual or multiple shade installations.

#### 120 V AC ST50 ROLLER MOTOR

**MAIN CHARACTERISTICS**

- 120 V AC power
- 44 dB (quiet operation)
- Variable-speed setting (6–28 rpm)
- Large shade application
- 3-prong plug or quick disconnect available
- Compatible with all Somfy RTS Controls
- Capable of lifting Solar Shades greater than 17.5 lb.

The Somfy Sonesse 50 (ST50) motors are tubular motors that fit inside the tube with only a small portion of the motor outside the tube. The biggest benefits to the ST50 motor are its quiet operation and lifting capability. The Sonesse 50 can lift shades greater than 17.5 lb. The Somfy 50 motors are powered by a 3-prong plug into an AC outlet or by an electrician into a junction box. The ST50 motorized roller shades are available as RTS RF-controlled motors. These motors are commonly used on shades greater than 120" x 120". The ST50 series motorized shades are built with 2.45", 3.15", 3.95" tubes, depending on the width of the shade.
**RTS MOTORS**  
**RTS CONTROL ACCESSORIES**

**REMODELS**

**TELIS 1 RTS SINGLE-CHANNEL TRANSMITTER**  
- Compatible with all Somfy RTS motors  
- Used to control single blinds/shades or group blinds/shades performing the same function  
- Each remote includes convenient mounting hardware for hanging when not in use  
- Battery included CR2450 3 V battery

<table>
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<tr>
<th>Color</th>
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<tr>
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**TELIS 4 RTS 5-CHANNEL TRANSMITTER**  
- Compatible with all Somfy RTS motors  
- Used to control single blinds/shades on each channel or group blinds/shades performing the same function  
- Each remote includes convenient mounting hardware for hanging when not in use  
- Additional 4 channels of control  
- Battery included CR2450 3 V battery

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**TELIS 16-CHANNEL RTS REMOTE**  
- Compatible with all Somfy RTS motors  
- Used to control a single blind/shade on each channel or group blinds/shades performing the same function  
- Convenient display provides easy identification of shade(s) being controlled  
- Each remote includes convenient mounting hardware for hanging when not in use  
- Powered by 2 AAA batteries (included)

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**DECOFLEX RTS SINGLE-CHANNEL WALL SWITCH**  
- Compatible with all Somfy RTS motors  
- Used to control a single blind/shade or group blinds/shades performing the same function  
- Switches include button labels and mounting hardware to flush mount in drywall (wireless)  
- Powered by CR2450 3 V lithium battery (included)

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**RTS MOTORS**  
**RTS CONTROL ACCESSORIES**

**WALL SWITCHES**

**DECOFLEX RTS 5-CHANNEL WALL SWITCH**  
- Compatible with all Somfy RTS motors  
- Used to control a single blind/shade or group blinds/shades performing the same function  
- Switches include button labels and mounting hardware to flush mount in drywall (wireless)  
- Five channel can be converted to two, three, or four channel button switch with faceplates  
- Powered by CR2450 3 V lithium battery (included)

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**DECOFLEX 2-CHANNEL FACE PLATE**

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**DECOFLEX 3-CHANNEL FACE PLATE**

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**DECOFLEX 4-CHANNEL FACE PLATE**

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**RTS MOTORS**  
**RTS CONTROL ACCESSORIES**

**TABLE TOP**

**DECOFLEX TABLE TOP RTS REMOTE**  
- Compatible with all Somfy RTS motors  
- Used to control a single blind/shade on each channel or group blinds/shades performing the same function  
- Switches include button labels  
- Powered by CR2450 3 V lithium battery (included)

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**BUILDING AUTOMATION**

**RTS DRY CONTACT INTERFACE SINGLE CHANNEL**

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**RTS MOTORS**  
**RTS CONTROL ACCESSORIES**

**16-CHANNEL UNIVERSAL RTS INTERFACE**

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**RTS MOTORS**  
**RTS CONTROL ACCESSORIES**

**16-CHANNEL Z-WAVE TO RTS BRIDGE**

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<th>Part No.</th>
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**16-CHANNEL Z-WAVE TO RTS BRIDGE**  
- Compatible with all Somfy RTS motors  
- Allows Z-Wave controllers to operate Somfy RTS motors  
- 16 channels of RTS control  
- Used to control a single blind/shade on each channel or group blinds/shades performing the same function  
- Can be controlled with Z-Wave only  
- Plugs into wall outlet  
- 65 ft. RTS range under optimal conditions  
- 9 V-15 V DC, 200 mA draw for each Universal Interface (transformer included)
### RTS MOTORS
#### RTS CONTROL ACCESSORIES

#### SUN SENSOR AND TIMER
**SUNIS INDOOR WIREFREE RTS 39-5271-00**
- Compatible with all Somfy RTS motors
- Two-position suction cup mounting
- Mounts to glass or windowsill
- Operates shades in accordance to sun intensity
- Adjustable sensitivity threshold
- Powered by lithium battery – included
- Controls unlimited RTS motors simultaneously
- Operating temperature: 32° F to 140° F
- INDOOR USE ONLY
- Powered by CR32 3 V lithium battery (included)

#### REPEATER
**RTS REPEATER 39-5272-00**
- Compatible with all Somfy RTS Motors
- Communicates with all Somfy (RTS) devices/motors
- Range Expander: Strengthens and extends the radio frequency signal (RTS) from control to motor
- Plug-and-play system plugs directly into any AC outlet; no programming needed
- LED Feedback
- 60 ft. RTS range under optimal conditions
- Controls unlimited number of shades simultaneously

#### CHRONIS COMFORT SINGLE-CHANNEL TIMER
**95-1537-00 WHITE**
- Compatible with all Somfy RTS motors
- Used to control a single blind/shade or group blinds/shades performing the same function
- Also operate shades as a remote
- Schedule one open and one close function per day with different scheduled operation available for weekends and weekdays
- Includes convenient mounting hardware for hanging on wall surface
- Powered by 3 AAA batteries (included)

**95-1538-00 SILVER**
- Used to control a single blind/shade or group blinds/shades performing the same function
- Also operate shades as a remote
- Schedule one open and one close function per day with different scheduled operation available for weekends and weekdays
- Includes convenient mounting hardware for hanging on wall surface
- Powered by 3 AAA batteries (included)

### INTELLIGENT MOTORS
#### SOMFY® DIGITAL NETWORK

The Somfy Digital Network (SDN) is capable of controlling thousands of motors over a single standard RS485 network. The system architecture consists entirely of interconnected intelligent devices. Each motor has its own unique hard-coded address, making it possible to identify and control every motorized window treatment on the SDN either individually or in preprogrammed groups. There is no need for a centralized building controller or remotely located hardware modules.

SDN can operate as a stand-alone system or large network integrated into third-party building management systems. Because it’s scalable and flexible, changes in building layout do not require rewiring; motors are added, removed, or reassigned to new configurations via software.

#### MAIN CHARACTERISTICS
- Digital communication
- Twisted pair bus line using differential signaling method defined by the RS485 standard
- Single bus segment up to 4000 ft. with 255 devices
- animeo® IP solar management capability
- Low-voltage controls

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**BUS AND POWER STATION SUPPLY**
**SDN KEYPAD**
**MOTOR DATA CABLE**
**CAT-5 TEE**
**CAT-5 5 PORT SPLITTER**

**120VAC, 1A**
INTELLIGENT MOTORS
ROLLER SHADES CONTROLLED ON THE SDN

120 V AC ST-50 RS485 ROLLER MOTOR

MAIN CHARACTERISTICS
• 120 V AC power
• Digital limit setting
• Quiet operation <40db
• 38 rpm
• Large shade application
• 18” WAGO plug + 5’ J-box lead or 3-prong plug
• Thermally protected
• Overcurrent protection
• Permanently lubricated gear box
• RS485 Protocol

Embedded micro-processor-based controller and on-board communication port for bi-directional communications

A line-voltage, quiet motor capable of lifting large Roller Shades, with 16 customizable pre-set positions. Sixteen unique network addresses allow shades to be controlled individually or together.

24 V DC ST30 RS485 MOTOR

MAIN CHARACTERISTICS
• 24 V DC power
• Digital limit setting
• Quiet operation 44db
• 28 rpm
• Thermally protected
• Overcurrent protection
• RS485 protocol

A low-voltage, quiet motor capable of lifting large Roller Shades, with 16 customizable pre-set positions. Sixteen unique network addresses allow shades to be controlled individually or together.

INTELLIGENT MOTORS
SOMFY® DIGITAL NETWORK

SYSTEM COMPONENTS

CAT-5 SPLITTERS
Provide a junction point for communication devices on the SDN.

<table>
<thead>
<tr>
<th>Ports</th>
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LIMIT SETTING TOOLS

50 SERIES RS485 MOTOR LIMIT SETTING TOOL
39-5528-00

SDN KEYPADS

SDN Keypads, in the standard Decora style, provide dry contact inputs for system integration.

• One female RJ45 connector
• Mounts in a single gang box

6-Button Switch White .................... 39-0090-01
6-Button Switch Ivory ..................... 39-0090-10
6-Button Switch Black .................... 39-0090-39
8-Button Switch White ..................... 39-0091-01
8-Button Switch Ivory ..................... 39-0091-10
8-Button Switch Black ..................... 39-0091-39

BUS AND SENSOR STATION POWER SUPPLY
39-0033-00
• 24 V DC at 1 A
• Power CAT-5 bus line
• 3.35” L x 1.75” W x 1.25” H
INTELLIGENT MOTORS
SOMFY® DIGITAL NETWORK

SYSTEM COMPONENTS

**CAT-5 PATCH CABLE**
- Carries data on the bus line.
  - 2 Male RJ45 connectors
  - Straight-thru data wiring
  - For use on the RS485 SDN
  - 7 ft: 39-0094-00
  - 25 ft: 39-0095-00
  - 50 ft: 39-0096-00

**RJ45 COUPLER**
- 39-0039-00
- Allows for extending the length of the data cable.
  - 1”L x .625”W x .875”H

**USB TO RS485 CONVERTER**
- 39-5425-00
- Enables the programmer to easily connect a PC to the SDN. After installing the required drivers, the device will show up as an additional COM port in the Device Manager.

**24 V DC MULTI-POWER SUPPLY**
- Individual fuse
- RS485 Input/Output
- 12”L x 6”W x 12”H
- 5 motor: 39-5452-00
- 10 motor: 39-5453-00

**OPTICAL ISOLATION REPEATER**
- 39-0089-00
- Protects and extends the range of the data line an additional 4000 ft.
  - 3.8”L x 2.4”W x 1”H

**REPEATERS**

**INTELLIGENT MOTORS SOLAR MANAGEMENT**

Animeo IP is a total solar management system utilizing Somfy-powered intelligent motorized window coverings, digital keypads, and weather sensors that automates shades based on sun, wind, temperature, and rain threshold. The system’s components can be added to new and existing SDN installations either as a stand-alone solution or integrated into third-party control systems.

**MAIN CHARACTERISTICS**
- Expandable systems can control more than 200 motors
- Controllers offer dynamic solar management
- Compact sensors react to multiple weather conditions
- Controllers also feature auto-discovery of motors
INTELLIGENT MOTORS
SOLAR MANAGEMENT

SYSTEM COMPONENTS

RTS RECEIVER FOR ANIMEO IP
39-0092-00
A radio frequency device designed control up to
up to five groups of motors on the network using
an RTS transmitter. The Receiver obtains its power
directly from the network, so no external power
supply is needed.
- Compatible with all RTS controllers
- One female RJ45 connector for connecting
  the SDN bus line
- Non-volatile memory
- LED indicator
- 3.75” x 2.25” x 1.5”H

COMPACT SUN SENSOR
39-0081-00
Consists of three sun sensors that can be oriented
to the east, south, and west, as well as a wind
sensor, an outside temperature sensor, and a rain
sensor.
- Heated for cold environments
- 6” x 4.75” x 3.5”H

ANIMEO IP KEYPADS
Fully programmable keypads, in the standard
Decora style, provide dry contact inputs for
system integration.
- Used only for animeo IP controlled systems
- Mounts in a single gang box
6-Button Switch White .................... 39-0087-01
6-Button Switch Ivory ................... 39-0087-10
6-Button Switch Black .................. 39-0087-39
8-Button Switch White .................... 39-0088-01
8-Button Switch Ivory .................... 39-0088-10
8-Button Switch Black .................... 39-0088-39

ANIMEO IP CONTROLLER
39-0054-00
Automates up to 200 motorized shades, providing
a dry contact input and output for third-party integration.
- ARM-based processor
- Auto-discovery of motors
- Dynamic solar management
- UL listed
- Dedicated IP bus
- Real-time clock
- 6.87”W x 4”H x 1.75”D

ANIMEO IP SUB CONTROLLER
39-0074-00
For installations greater than 200 motors, animeo IP Sub Controllers expand system
capacity (1 for every additional 200 motors), providing a dry contact input and output for
third-party integration.
- ARM-based processor
- Auto-discovery of motors
- Dynamic solar management
- UL listed
- Dedicated IP bus
- Real-time clock
- 6.87”L x 4”W x 1.75”H

SENSOR STATION MAST
39-0080-00
An aluminum mast with a pre-mounted and
pre-wired outside sensor box, four sun sensors,
a wind sensor, a rain sensor, an outside
temperature sensor, and the capacity to be
equipped with additional sensors.
- 5 ft. in height
- Requires power and individual run to the
animeo IP unit
- Sensors pre-mounted and wired to an outside
sensor box

STANDARD WIRED MOTORS
STANDARD WIRED MOTORS BY SOMFY®

Standard Wired Motors by Somfy, controlled by standard AC switching, are Somfy’s most reliable form of control.
Powered by a 120 V AC motor, and available in a wide range of torque offerings, standard wired motors are capable
of lifting very large shades. They can interface with third-party controls using either dry contacts or motor control units,
and have the ability to control individual or groups of motorized window coverings through low-voltage switch options.

MAIN CHARACTERISTICS
- Brushless asynchronous 120 V AC (60 Hz) single-phase motor
- Ultra-quiet operation below 44 dB(A)
- Manual push-button limits for ease in installation
- Operates individually on single-paddle switch
- Operates in groups using motor control units
- Controls available in standard Decora® paddle switch, 3-button, and 6-button switch stations
- Integrates easily using dry contacts and motor control units
- Sun Sensor control options

Standard Wired Motors Can Control Large Solar Shades
SINGLE OR TWO MOTOR HEAVY DUTY KEYED SWITCH
39-5229-00
• DPDT (double-pole/double-throw)
• 2 motor keyed switch
• Available in momentary models

IGC-II MOTOR CONTROL
The IGC-II/3N1 provides control of one or more standard motors in groups and/or individually. Multiple control units are wired together using 6-pin modular terminals, and individual motors can also be split from the control unit. The units use dry contact relays for third-party control. IGC-II/3N1 is a very flexible control system that can be configured in a variety of ways (e.g., individual window control, floor control, total building control, etc.).

• IGC-II Single motor control unit (39-5202-00)
  – 8”W x 6”L x 4”D
  – Connect 1 motor only
• IGC-II 3N1 3 motor control unit (39-5203-00)
  – 10”W x 6”L x 4”D
  – Connect up to 3 motors

Low-voltage switch control
Using 6-pin modular connector

3-button single station switches
– White: 39-5206-01
– Ivory: 39-5206-10

6-button single station switches
– White: 39-5206-01
– Ivory: 39-5206-10

Input:
– Line Voltage: 115 V AC +/- 10% 50/60 Hz
– Single Motor Low Voltage: 12 V DC 90 mA Max Consumption
– 3N1 Low Voltage: 12 V DC 185 mA Max Consumption

Output:
– 115 V AC +/- 10% 5 A 1/2 HP
– Fuse 4x 5 A (1 per motor)

• Connect multiple controls together using T-splitter
  – 39-5288-00

Conforms to UL508 standard for industrial controls
### STANDARD WIRED MOTORS

#### CONTROLS

#### GROUP MOTOR CONTROL OPTIONS

**GCS-II MOTOR CONTROL**

39-5202-00  

The Group Control System-II (GCS-II) is a group-only motor control that controls up to 4 Somfy motors together with one switch by linking control units together on low-voltage terminals. It uses dry contact relays for third-party control.

- **4 Motor Control Unit**
  - IP: x 10W x x 4D
  - Connect 1 motor only
- **Low-voltage switch control using 3 wires**
  - Typ. 16-18 AWG
  - Common/Up/Down
- **Switch using SP/DT Momentary or Maintained Switches**
  - White Maintained: 39-5418-01
  - Ivory Maintained: 39-5418-10
  - White Momentary: 39-5419-01
  - Ivory Momentary: 39-5419-10

**Input:**
- Line Voltage: 115 V AC +/- 10% 50/60 Hz 20 A
- Low Voltage: 12 V DC 0.3 A

**Output:**
- 115 V AC +/- 10% 5 A (each motor)
- Fuse Motor: 2 x 10 A (1 per 2 motors)
- Fuse Line Voltage: 1/6 A
- Conforms to UL508 standard for industrial controls

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**ANIMEO MOTOR CONTROL**

39-5125-00  

The animeo Motor Control is capable of operating 4 standard motors on one master switch and allowing motors to be split from the control unit. It uses dry contact relays for third-party control and is capable of providing one custom intermediate stop. The control is a wall-mounted housing unit made of CC-ABS Polycarbonate.

- **4 Motor Control Unit**
  - 10" x 2.5" W x 3.5" D
- **Low voltage switch control**
  - Using 3 wires for Up/Down/Common
- **3-button Single Station Switches**
  - White: 39-5085-01
  - Ivory: 39-5085-10
- **6-button Single Station Switches**
  - White: 39-5086-01
  - Ivory: 39-5086-10

**Input:**
- Line Voltage: 115 V AC +/- 10% 50/60 Hz 52 mA

**Output:**
- 115 V AC +/- 10% 4 x 6.3 A (1 per motor)
- Fuse Motor: 4 x 6.3 A (1 per motor)
- IP 20 Protection Class
- cUL listed (file nr: E160523)

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**ANIMEO SOLO SUN SENSOR CONTROL**

Wires into any group motor controller unit to allow for automated control of solar shades, based on solar intensity. Capable of manual lock at current position, allows for one programmable timed event, and provides feedback on current solar intensity.

- **Single-Zone Control 39-5291-00**
  - 1 to 2 sun sensors can control 1 façade
- **Two-Zone Control 39-5292-00**
  - 2 sun sensors separately control 2 façades
- **Exterior-Mounted Sun Sensor 39-5293-00**
  - Provides solar intensity readings for Solo
  - Comes with mounting bracket
  - Must be wired within 150 ft. of animeo Solo

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**STANDARD MOTOR OPTIONS**

**ISOLATION CONTROL RELAY**

39-5273-00  

Connects multiple motors to a SP/DT switch or relay. For use when 2 or more standard motors are wired in parallel.

- **For use with momentary switch only**
  - Output:
    - 115 V AC +/- 10% 5 A (each motor)
    - Fuse Motor: 4 x 6.3 A (1 per motor)
    - IP 20 Protection Class
  - cUL listed (file nr: E160523)

**STANDARD MOTOR LIMIT-SETTING TOOL**

39-5278-00  

Sets limits independent of motor power supply.

- Provides control at the motor to assist in ensuring motors do not roll past their limits and damage shades
- Performs motor checks for operation independent of electrical work