Sonesse® 50 RTS
Star Head and Round Head Motors

504S2 1030065  504S2RH 1030066
506S2 1001809  506S2RH 1001806
510S2 1001807  510S2RH 1001805

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

Technical Features

- **Voltage Supply**: 120V AC, 60Hz
- **Index Protection Rating**: 504 – IP 31 (interior use)
  506/510 – IP 44 (interior & exterior use)
- **Limit Switch Type**: Electronic RTS
- **Limit Switch Capacity**: 250 Turns
- **Temperature Working Range**:
  504: 32°F to 140°F (0°C to 60°C)
  506/510: -4°F to 158°F (-20°C to 70°C)

Insulation Class

- **Class 1 for 120V AC**

Antenna

Integrated into power cord. Power cord must be at least 12 inches and must not come in contact with metal.

Wiring

Parallel wiring allowed in accordance with NEC and local electrical codes.

Specifications

<table>
<thead>
<tr>
<th></th>
<th>504</th>
<th>506</th>
<th>510</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque</td>
<td>4 Nm</td>
<td>6 Nm</td>
<td>10 Nm</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>120V / 60Hz</td>
<td>120V / 60Hz</td>
<td>120V / 60Hz</td>
</tr>
<tr>
<td>Rated Current</td>
<td>.95A</td>
<td>1.2A</td>
<td>1.67A</td>
</tr>
<tr>
<td>Speed</td>
<td>32 rpm</td>
<td>32 rpm</td>
<td>32 rpm</td>
</tr>
<tr>
<td>Thermal Protection</td>
<td>4 minutes</td>
<td>4 minutes</td>
<td>4 minutes</td>
</tr>
<tr>
<td>Radio Frequency</td>
<td>433.42 MHz</td>
<td>433.42 MHz</td>
<td>433.42 MHz</td>
</tr>
<tr>
<td><em>Sound Level</em></td>
<td>≤ 44 dBA</td>
<td>≤ 45 dB</td>
<td>≤ 47 dBA</td>
</tr>
</tbody>
</table>

*Sound Level:

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

Fabrication Recommendations:

- Operational noise level is reduced when motor, tube, and mechanical accessories are properly adapted to motorized applications.
- Free play must be minimized between the accessories and the end product tube to ensure quiet performance of the motor.
- Interior Tube Diameter (ID) > 47 mm must be respected.
- A motor crown adaptor between motor and end product tube is required to ensure concentric operation of motor.
- 500 Series Drive Stop and Screw (9910004) is recommended to prevent noise and drive wheel separation from motor shaft.
- Somfy Soft Clip Drive Wheel Adaptors (brown in color) are not recommended.

Type of power cable

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

  white = neutral
  black = hot
  green = ground

Dimensions

- **504**
  - L1: 30.83 in (783 mm)
  - L2: 30.31 in (770 mm)
  - L3: SH 31.34 in (793 mm)

- **506**
  - L1: 25.7 in (653 mm)
  - L2: 25.2 in (640 mm)
  - L3: SH 26.2 in (666 mm)

- **510**
  - L1: 25.7 in (653 mm)
  - L2: 25.2 in (640 mm)
  - L3: SH 26.2 in (666 mm)

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