Sonesse® 50 RA
Star Head and Round Head Motors (rapid limit adjustment)

Technical Features

Voltage Supply 120V AC, 60Hz

Index Protection Rating
506 - IP 31 (interior use)
506/510 - IP 44 (interior & exterior use)

Limit Switch Type Rapid Adjustment RA

Limit Switch Capacity 46 Turns

Temperature Working Range
506/510: -4°F to 158°F (-20°C to 70°C)
Interior and exterior use

Insulation Class Class 1 for 120V AC

Wiring Do not parallel wire.

Specifications

<table>
<thead>
<tr>
<th></th>
<th>506</th>
<th>510</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque</td>
<td>6 Nm</td>
<td>10 Nm</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>120V / 60Hz</td>
<td>120V / 60Hz</td>
</tr>
<tr>
<td>Rated Current</td>
<td>1.2A</td>
<td>1.67A</td>
</tr>
<tr>
<td>Speed</td>
<td>32 rpm</td>
<td>32 rpm</td>
</tr>
<tr>
<td>Thermal Protection</td>
<td>4 minutes</td>
<td>4 minutes</td>
</tr>
<tr>
<td>*Sound Level</td>
<td>≤ 45 dBA</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.

Dimensions

**STAR HEAD**

2 mounting holes for self tapping screws. Dia. 5 mm (cat #9670013).
Depth 13 mm spaced 1.89” (48 mm) apart.

**ROUND HEAD**

2 mounting holes for self tapping screws. Dia. 4 mm (cat #100405B).
Depth 9 mm spaced 1.14” (29 mm) apart.

<table>
<thead>
<tr>
<th></th>
<th>506</th>
<th>510</th>
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<tbody>
<tr>
<td>L1</td>
<td>23.7 in. (603 mm)</td>
<td>23.7 in. (603 mm)</td>
</tr>
<tr>
<td>L2</td>
<td>23.2 in. (590 mm)</td>
<td>23.2 in. (590 mm)</td>
</tr>
<tr>
<td>L3</td>
<td>SH 24.3 in. (616 mm)</td>
<td>SH 24.3 in. (616 mm)</td>
</tr>
<tr>
<td></td>
<td>RH 24.1 in. (613 mm)</td>
<td>RH 24.1 in. (613 mm)</td>
</tr>
<tr>
<td>Cable Length</td>
<td>6.5 ft. (2 m)</td>
<td>6.5 ft. (2 m)</td>
</tr>
</tbody>
</table>

* Wired AC / 60Hz
4 conductor cable

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

Offers control via power switching