Sonesse® ULTRA 50 DC RTS

Technical Features

**NEW** Sleep Mode
New feature that allows for advanced programming and grouping.

Voltage Supply
24V DC

Index Protection Rating
IP 20 (Interior)

Limit Switch Type
Electronic

Limit Switch Capacity
38 Turns

Temperature
32°F to 140°F (0°C to 60°C)
(Interior use only)

Working Range

Insulation Class
Class 3

Wiring
In accordance with NEC and local electrical codes.

Power Supply
Use only Somfy’s power supplies to maintain UL listing requirements and guarantee motor’s performance.

Dimensions

<table>
<thead>
<tr>
<th></th>
<th>L1</th>
<th>L3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30.7 in. (780 mm)</td>
<td>31.5 in. (800 mm)</td>
</tr>
</tbody>
</table>

**Data & Power Cable Length**

2 mounting bosses that accept self tapping screws (dia. 4 mm, depth 11 mm) spaced 1.89” (48 mm) apart.

NOTE: Bracket mounting bosses must transfer torque.

SQUARE HEAD

3 buttons for limit setting and operation.

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) → 47.5 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.
- Somfy Soft Clip Drive Wheel Adaptors (brown in color) are not recommended.

<table>
<thead>
<tr>
<th></th>
<th>Torque</th>
<th>4 Nm</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>* Minimum Torque</td>
<td>0.4 Nm</td>
</tr>
<tr>
<td></td>
<td>Nominal Voltage</td>
<td>24V DC</td>
</tr>
<tr>
<td></td>
<td>Rated Current</td>
<td>1.5A</td>
</tr>
<tr>
<td></td>
<td>Speed</td>
<td>10-25 Adjustable</td>
</tr>
<tr>
<td></td>
<td>Thermal Protection</td>
<td>5 minutes</td>
</tr>
<tr>
<td></td>
<td>** Sound Level</td>
<td>≤ 38 dBA</td>
</tr>
</tbody>
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Pigtail: Data and Power

<table>
<thead>
<tr>
<th>JST to Motor</th>
<th>Weidmüller Connects to Network</th>
<th>Cable Detail View</th>
<th>Connector Markings Detail View</th>
<th>Maximum Power Cable Length (to guarantee characteristics)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GAUGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14 AWG</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16 AWG</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18 AWG</td>
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