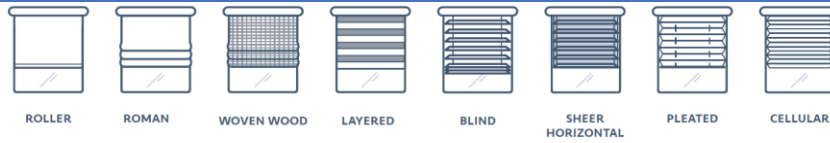


Sonesse 40 WF RTS Li-ion

TECHNICAL DATASHEET

DOC152478		
TDST Sonesse 40 WF RTS Li-ion		
Based on DOC161449		
Date	Index	Page
#N/A	005	1/1

Application scope



Main functionalities

- For large size blinds
- Designed for silence
- Soft start and soft stop
- Built in Li-ion battery
- Thin head
- Information feedback (LED)
- Adjustable speed
- Compatible with modulis functions
- Compatible with solar panel
- Slats tilting

Technical features

Nominal voltage	12 VDC	Temperature working range	0°C - 60°C
Protection against polarity reversal	Yes	Temperature charging range	0°C - 40°C
Protection from axis stall	Yes	Temperature storage range	-20°C - 60°C
Index protection rating	IP 30 - For indoor use only	Insulation class	Class III
Type of limit switch unit (LSU)	Electronic, encoder based	Antenna	12cm wire length, must not be cut or lengthened. For greatest RF range, antenna must be out the rail/tube/cassette
Capacity of the LSU	150 turns		
Minimum distance between limits	1 turn		
Capacity of memory	12 transmitters, no sensors		
Related interface drawings	Motor: GEO157700 Crown: GEO113303 Drive wheel: GEO134616		

Specifications

Key specifications

Nominal torque	3 Nm
Minimum torque	0,3 Nm
Nominal speed	20±0,2 rpm *
Adjustable speed	10 to 28 rpm Step 2rpm
Typical Sound Level	<45 dB(A) **

Electrical

Battery capacity	4600 mAh
Nominal power	<37,5 W
Up Current	1700 ±200 mA *
Up Current	2400 mA At 28rpm
Down current	500 ±100 mA *
Max start current	<9 A *
Current at stall torque	2700 ±100 mA
Current at no load	500 ±100 mA
Current without radioreception	90 ±15 µA

Performance

Charging time	8 hours for full charge
ESD reinforced immunity	Air: up to 20kV - Contact: up to 20kV
Repeatability	± 6°

Autonomy

1 recharge per year
11 months in Somfy reference blind:
Blind description: 1,4m wide, 1,4m high, Ø50mm tube, bottom bar 300g/m, fabric 375g/m², 1cycle/day, 20% friction, low RF traffic.

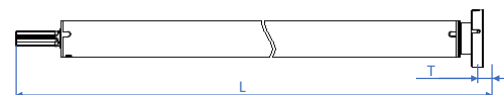
Life time
7 000 cycles on a test bench, 2m high with a 50mm tube diameter
79% at room temperature with dynamic load (from 0,2Nm up to nominal torque)
20% at 50°C with static load (nominal torque)
1% at 0°C with static load (nominal torque)

* At nominal torque & room temperature (25°C)

** Power Level: - measurements according to standards ISO 3741 in dB(A) ref 1pW, at nominal torque and nominal speed, between 20°C and 35°C
- value: highest typical value between Up direction and Down direction, based on 10 samples.

Dimensions

Motor overall length	L	650 mm
Head thickness	T	10,85 mm
Head diameter	D	41,5 mm



Limitations

For interior use only.
Warning: end cap friction above 20% will impact the expected autonomy.
Maximum distance between motor and charger: 5m
Do not let the charger plugged in permanently to the motor. Somfy recommends to unplug after recharge.
Minimum tube diameter (int.): 37mm
Maximum tube diameter (ext.): 63mm / 2,5". For greater values please contact us.