Sonesse 28 WF RTS Li-ion **TECHNICAL DATA MOTOR**

DOC 144132			
TDST Sonesse 28 WF RTS Li-ion			
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Application scope



Main functionalities

- For medium size blinds (up to 11m²)
- Designed for silence
- Soft start and soft stop
- Built in Li-ion battery
- O Thin head
- Information feedback (LED)
- Adjustable speed
- Compatible with modulis functions
- Compatible with solar panel
- Slats tilting

Technical features

Nominal voltage	12 VDC	
Protection against polarity reversal	Yes	
Protection from axis stall	Yes	
Cable	No cable. Connector on the motor head.	
Index protection rating	IP 20 - For indoor use only	
Type of limit switch unit (LSU)	Electronic, encoder based	
Capacity of the LSU	200 turns	
Minimum distance between limits	1 turn	
Capacity of memory	12 transmitters, no sensors	
Related interface drawings	Motor: GEO151606	
	Crown: GEO153856	
	Drive wheel: GEO138467	
	Motor plate: GEO138616	

Temperature working range	0°C - 60°C	
Temperature charging range	0°C - 45°C	
Temperature storage range	-20°C - 60°C	
Insulation class	Class III	
Antenna	17,5cm wire length, must not be cut or	
	lengthened. For greatest RF range,	
	antenna must be out out the rail/tube/cassette	
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Specifications

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Key specifications	
Nominal torque	1,1 Nm
Nominal speed	20±2 rpm *
Adjustable speed	10 to 28 rpm
Typical Sound Level	<49 dB(A) **
Electrical	
Battery capacity	2600 mAh
Nominal power	<37,5 W
Up Current	<750 mA *
Down current	<150 mA *
Max start current	4500 mA *
Current at stall torque	2200 mA
Current at no load	<150 mA
Current without radioreception	100 μΑ
Performance	
Charging time	<4,5 hours for full charge
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Radio

Radio frequency	433,42 MHz
Radio protocol	RTS U80
Radio range for European remotes	200m free field
	20m through 2 concrete walls
Radio range for FCC remotes	50m free field
	6m through 2 concrete walls

Charging time	<4,5 hours for full charge
ESD reinforced immunity	Air: up to 17kV - Contact: up to 17kV
Repeatability	±5°
Autonomy	1 recharge per year
	10 months in Somfy reference blind:

Miscellaneous

Weight	0,55 kg
Battery weight	0,15 kg
Stall torque	3 Nm

Life time

 $Blind\ description: 1,2m\ wide,\ 2m\ high,\ \emptyset 32mm\ tube,\ bottom\ bar\ 300g/m,\ fabric\ 375g/m^2,\ 1cycle/day,\ 20\%\ friction,\ low\ RF\ traffic.$

7 000 cycles on a test bench, 2m high with a 38mm tube diameter

79% at room temperature with dynamic load (from 0,2Nm up to nominal torque)

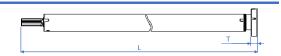
20% at 50°C with static load (nominal torque) 1% at 0°C with static load (nominal torque)

- value: highest typical value between Up direction and Down direction, based on 10 samples.

Dimensions

Motor overall length	L	546 mm
Head thickness	T	9 mm
Head diameter	D	44 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.): 26,6mm

Maximum tube diameter (ext.): 50mm. For greater values please contact us.

Maximum static load to be applied on the motor head: 7kg

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

⁻ measurements according to standards ISO 3741 in dB(A) ref 1pW, at nominal torque and nominal speed, between 20°C and 35°C