

27 - 07 - 2010

LW25 DMKI-FPTER6

designation	LW 25 E83
range	Motor
FUNCTIONS	

The LW 25 E83 is a double output shafts motor, with integrated encoder sensor, integrated brake & shaft play equalizer



TECHNICAL SPECIFICATIONS	Units	LW 25 E83
Nominal load torque*	(Nm)	0.8
Nominal stall torque*	(Nm)	Depends on controller
Maximum stall torque (during 80 ms max)	(Nm)	2.5
Maximum stall current consumption	(A)	1.3
Maximum time powered with rotor locked	(ms)	80
Average speed at nominal load (way Up)*	(r.p.m)	30
Average speed no load (way Up & Down)*	(r.p.m)	50
Maximum continuous current consumption	(A)	0.6
Maximum starting up current consumption (during 60ms max)	(A)	1.3
Motor nominal supply voltage	(Vdc)	24
Motor minimum / maximum supply voltage	(Vdc)	21 / 27
Maximum off center possibility of output shaft	(mm)	+/- 0.7
Maximum running time in blind (Time off 30 min)	(min)	7
Dielectric strength with a Safety Extra Low Voltage		class III
Standards		CE
Supply cable type	(mm ²)	3 x 0.25
Supply cable length	(m)	2.5
Approx. weight	(g)	195
US Patents numbers		US 5.857.553
For other countries, please contact us for the patent numbers		

* Under 24Vdc regulated power supply at 20°C

WARNINGS

- For interior use only. **Strictly forbidden for sealed glass applications**
- This LW 25 E 83 actuator can only be connected to a dedicated controller meeting all the technical datas as well as the wiring mentioned in this document.
- Maximum length for a 3 x 0.25 mm² cables 15 m.
- The LW 25 E 83 is warranted only when the following types of end limits are applied:
 - Up limit:** "soft stop" as specified below or automatic positioning through turns counting.
 - Soft stop: maximum stall current 600 mA.
 - maximum stall torque 1.2 Nm.
 - Maximum stall time 100 ms.
 - Down limit:** automatic positioning through turns counting.
- For a better accuracy of the blind positions, a upper end limit **calibration*** at regular intervals via the dedicated controller is compulsory (for exemple each 20 cycles)
- Somfy recommends to place the motor in the center of the headrail (maximum split of CTS25 or lift and tilt accessories : 2/3 - 1/3). **The maximum number of hard stop during the product life time = 20.**
- Calibration*** : means reach the limit on torque/speed reduced. Different than setting: means reach the limit at torque/speed max.
- Setting** means reach the limit Up & Down at maximum torque & speed.

WORKING TEMPERATURE & MAXIMUM NUMBER OF CYCLES (EN14202 - Class 2)

From -10°C (14°F) till 85°C (185°F): 10 000 cycles *

Restriction :

- from -10°C (14°F) till 0°C (32°F): 100 cycles* - Nominal performances not guaranteed,
- from 60°C (140°F) till 75°C (167°F): 2500 cycles,
- from 75°C (167°F) till 85°C (185°F): 500 cycles.

Maximum number of slats tilting: 20 000

* 1 cycle = 1 up/down movement of 2m height for a blind equipped with CTS25

DIMENSIONS & WIRING

