REFERENCES OF THE MOTORS

	DESCRIPTION	TORQUE	SPEED	x 1	REFERENCE x 10	x 100
	T3,5 E Hz CC - 12 VCC	3 Nm	23 tr/min.	2006996	2006997	-
	T3,5 E Hz CC - 12 VCC	6 Nm	18 tr/min.	2006998	2006999	2007753
	T3,5 E Hz CC - 12 VCC	10 Nm	12 tr/min.	2007000	2007001	-

REFERENCES OF THE SOLAR SETS

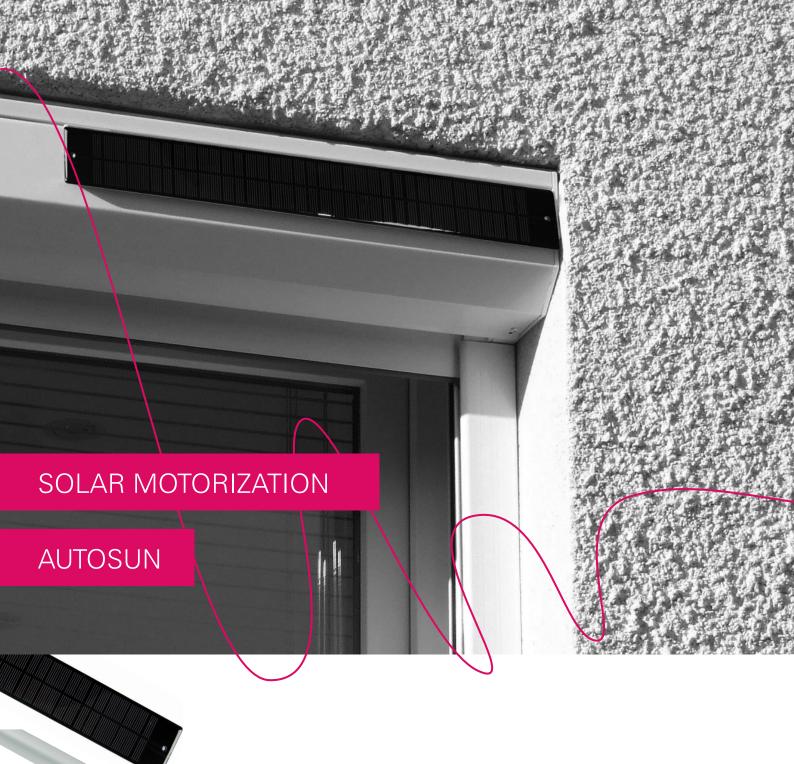
DESCRIPTION	MOTOR TORQUE	MOTOR SPEED	REFERENCE
	3 Nm	23 tr/min.	2008546
	6 Nm	18 tr/min.	2008547
	10 Nm	12 tr/min.	2008548
	-	-	9019030

REFERENCES OF COMPONENETS AND ACCESSORIES

PRODUCT	DESCRIPTION		REFERENCE
AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU	Solar panel	x 1 x 10	9019032 9019031
	Battery		9014734

	Set of 10 clamps for Autosun battery fixing	9017661 (x10)
--	---	---------------

Back up power supply (100/240 VCA - 50/60 Hz) for inside use only	9014738





- Autonomous motorization system for roof and facade roller shutters, operating with solar energy, which is a free, clean and renewable energy
- **No wiring**: AUTOSUN does not need to be connected neither to the electrical network nor to control points (Simu-Hz radio technology), which means no disturbance of existing walls.
- Optimized outputs : AUTOSUN has been designed to run in most geographical area
- Stop on obstacle function and frost detection system: the motor stops when opening if it is stuck in the guide rails by frost or if the bottom lath is locked, avoiding equipment damages.





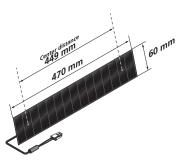
OPERATING PRINCIPLE AND INTEGRATION

AUTOSUN is a complete system made up of a solar panel, a battery and a direct current radio motor with electronic endlimits .

1 THE SOLAR PANEL

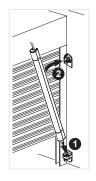


- Converts solar energy into electrical energy.
- Only 1 solar panel, whatever the motor torque, the orientation and the geographical situation of the roller shutter.
- Is fixed by 2 pop rivets directly on the roller shutter's box.



2 THE BATTERY

- Delivers the energy to the motor.
- Stores the energy transmitted by the solar panel.
- Is connected to the solar panel and the motor.
- Is integrated into an aluminium rod.
- Is fixed by bonding (self-adhesive tape) or by using specific clamps on a guide rail, or on the roller shutter box, or on the masonry.
- Can be reloaded by the supply of a backup power supply.



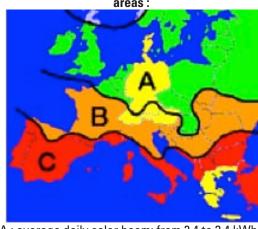
3 THET3.5 E HZ DC MOTOR

- Is connected to the battery and uses its energy to operate the shutter.
- Is controlled by radio control Simu-Hz, so no wiring required to the control points.
- Is available in 3,6 and 10 Nm.
- Is equipped with a stop on obstacle and frost detection system.
- Can record a user's favorite position by pressing the STOP button, it will automatically go to that position.
- Compatible with Simu Hz automatic devices (when the solar panel is oriented at the South, East and West.
- Is put on standby at the end of cycle.
- Informs when the battery is weakly loaded.



- No need to call an electrician.
- Free, clean and renewable energy.

Our system has been developed to run in A, B and C areas :

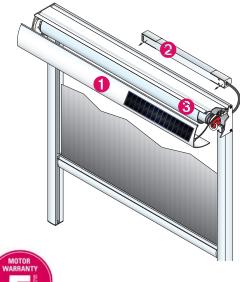


Area A : average daily solar beam: from 2.4 to 3.4 kWh/m² Area B : average daily solar beam: from 3.4 to 4.4 kWh/m² Area C : average daily solar beam: from 4.4 to 5.4 kWh/m²

Max one cycle/day for the motor 10 Nm if the solar panel is oriented at the North in the area A.

Loaded battery autonomy (without sun) 15 days, 1cycle/day for the motor 10 Nm.

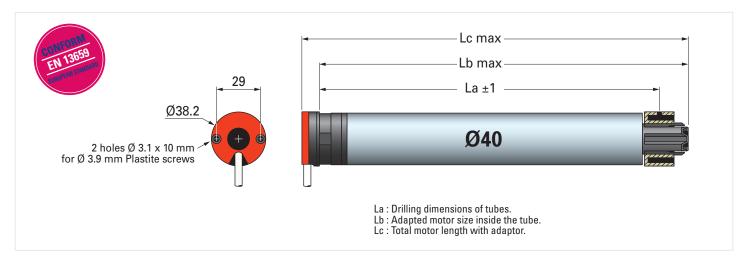
Respect solar panel installation instructions (no direct or projected shadows).





T3.5 E HZ DC MOTOR

DIMENSIONS



REFERENCES

POWER SUPPLY 12 VDC

DESCRIPTION	TORQUE	SPEED	POWER	CURRENT	La	Lb	Lc	WEIGHT	REFEI x1	RENCE x10
T3,5 E Hz CC - 3/23	3 Nm	23 tr/min.	17 W	1,4 A	433 mm	457 mm	471 mm	0,77 kg	2006996	2006997
T3,5 E Hz CC - 6/18	6 Nm	18 tr/min.	26 W	2,2 A	433 mm	457 mm	471 mm	0,8 kg	2006998	2006999
T3,5 E Hz CC - 10/12	10 Nm	12 tr/min.	30 W	2,4 A	433 mm	457 mm	471 mm	0,8 kg	2007000	2007001

TECHNICAL CHARACTERISTICS

POWER SUPPLY 12 Volts (Ni-MH) battery

END-LIMIT Electronic system with operating limited to 3 min.

END-LIMIT READJUSTMENT every 59 cycles during 3 cycles

PROTECTION INDEX IP 44

AMBIENT TEMPERATURE OF USE from -10°C to +40°C and exceptionally from -20°C to +60°C

POWER CABLE 0.4 meters (3x0,75 mm² wires, white H03 VVF)

RADIO FREQUENCY 433.42 MHz

SECURE COMMUNICATION Encrypted control orders

+ Rolling code with 16 million possible combinations

RANGE ~200m in free field

and ~20m through 2 reinforced concrete walls

(depends on the environment and on the radio pollution)

MOTOR HEAD THICKNESS 14 mm

4 CYCLES PER DAY non consecutive

STANDARD (

ϵ

SOLAR PANEL

Réf. 9019032 / 9019031

- Material : resin panel

- Type of photovoltaics panel: monocristalin

- Protection index: IP x 4

- Delivered voltage: 195,8 mA max

- Power: 3,2 W

- Type of cable : Cable of 700mm with Molex plug and rubber cable-gland for impermeability

- Dimensions : 470 x 60 x 6 mm

- Weight: 230 g

BATTERY

Ref. 9014734

- Battery : NI-MH - Nominal voltage: 12 V

- Capacity: 2.2 Ah

- Ambient temperature of use: from -20°C to +70°C

Protection index: IP X4Lifetime: ± 5 years

- Dimensions : 503 x 27 x 30 mm

- Weight: 790 g

BACK UP POWER SUPPLY

Réf. 9014738

- Power supply: 100-240 VAC - 50-60 Hz

- Utilisation: for inside use only

- Weight: 180 g