

Warranty

All Somfy products carry a 5-Year Limited Warranty.*

*Warranty effective from date of invoice by Somfy Pty Limited.



Obligations

SOMFY's only obligation shall be to repair or replace, with the least possible delay, defective equipment which does not conform to the warranty without any other indemnity relating to installation and re-installation or consequential damages.

SOMFY shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of, or the inability to use, the equipment. Before using, the Buyer and/or the end User shall determine the suitability of the product for its intended use, and User assumes all risks and liability in connection therewith.

The articles that are replaced pursuant to the terms of this warranty shall be retained by SOMFY.

All costs related to installation and re-installation of the SOMFY equipment covered by this warranty are not the responsibility of SOMFY.

The user is responsible for any freight costs relating to repair or replacement. SOMFY will not be responsible for any consequential damages during or following installation procedures.

If the buyer resells any SOMFY products to another buyer or end-user, it shall include all of the terms and provisions of this warranty in such resale. SOMFY's responsibility to any such third party shall be no greater than SOMFY's responsibility under the warranty to the original Buyer.



Exclusions













The following are exclusions from warranty:

1. If usage, adaptation or installation are not in accordance with our written installation and operating instructions.
2. If the product has been opened, dismantled or returned with clear evidence of abuse or other damage.
3. If our written specifications are not properly applied by the Buyer when selecting the equipment.
4. If our written instructions for installation and wiring of the electrical connections have not been followed.
5. If our equipment has been used to perform functions other than the functions it was originally designed to handle, namely motorising window and door coverings and enclosures e.g. awnings, internal & external blinds, curtains, roller shutters & grilles, projection screens, gates and windows. Please consult SOMFY about warranty for any uses other than the above.
6. If SOMFY equipment is used with electrical accessories (switches, relays etc.) that have not been previously approved in writing by Somfy's Customer Support Department.
7. If the electrical accessories and other components have been used in disregard of the basic wiring diagram for which they were designed.

somfy®

International Certification

Somfy motors have been tested by electrical authorities around the world.

Australia & New Zealand		Canada		Italy		Switzerland	
Austria		France		Netherlands		United States of America	
Belgium		Germany	 <small>Baumeister geprüft STUTTGART</small>	Scandinavia			

We are proud that our motors carry the marks of the most recognised electrical testing institutions. This indicates conformance to stringent operational and safety standards.

The Quality Management System of Somfy S.A. of Cluses, France has been certified by Lloyds Register Quality Assurance Limited to the **ISO 9001** Standard.



*C-Tick is a compliance trademark

A product with the "C-tick" logo indicates that it complies with the Electromagnetic Compatibility Standards in Australia and New Zealand.

This regulation is monitored by the Australian Communications Authority under the Radio-Communications Act 1992. The purpose of this regulation is to minimise electromagnetic interference between electronic products which may diminish the performance of electrical products or disrupt essential communications.

This compliance requirement is important as the use of electrical products, electronic systems and digital technology in the commercial and domestic environments are growing rapidly.

Compliance to this standard is mandatory for all electrical, electronic and digital products sold in Australia and New Zealand and the products must display the C-tick logo.



Standards







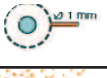







Somfy products meet all applicable standards for the countries they are sold in worldwide. In Australia Somfy engages NATA accredited test laboratories to test our products to ensure compliance with the relevant Australian and New Zealand standards.

General Information

All Somfy motors and controls have an IP (Protection index) rating. This rating is a guide to the degree of protection required by the electrical equipment casing.

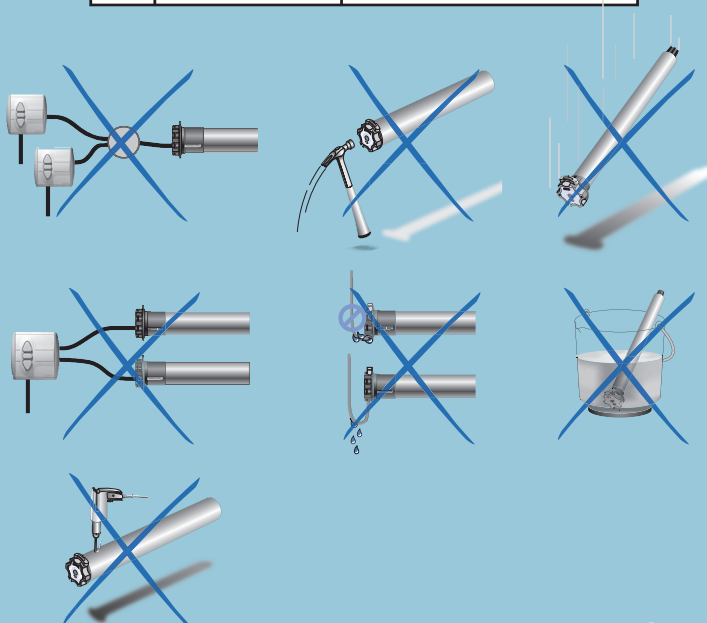
The IP rating is comprised of two numbers. Each number corresponds to a degree of protection in one of the two following categories: – solid object
– water

eg: IP **4** **4**

Protection against solid bodies.			Protection against liquid bodies.		
IP	tests		IP	tests	
0		No protection	0		No protection
1		Protected against solid particles greater than 50 mm (eg: unintentional contacts from the hand).	1		Protected against vertical water drops (eg: condensation)
2		Protected against solid particles greater than 12.5 mm (eg: hand finger).	2		Protected against water drops falling up to 15° from vertical.
3		Protected against solid particles greater than 2.5 mm (eg: tools, screw).	3		Protected against rain up to 60° from vertical.
4		Protected against solid particles greater than 1mm (eg: tools, screw).	4		Protected against water splashes from all directions.
5		Protected against dust (no deposit).	5		Protected against water squirts from all directions.
6		Totally protected against dust.	6		Protected against water projection similar to ocean waves.
			7		Protected against immersion effects.
			8		Protected against lengthy, under pressure submersions.

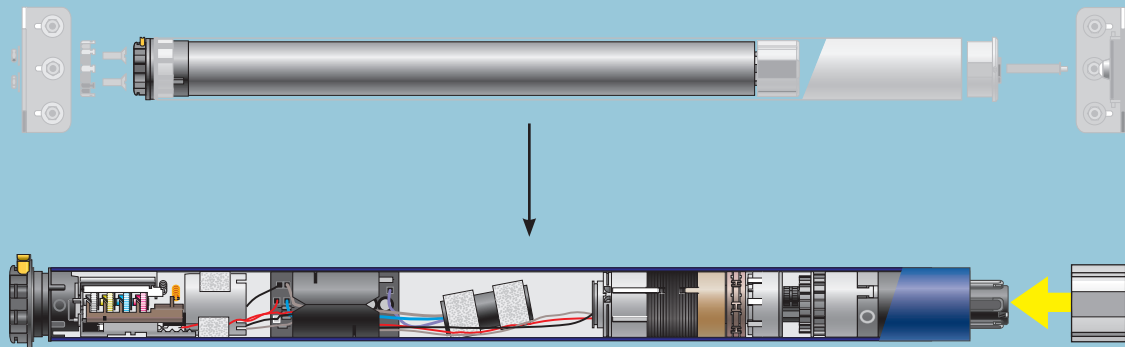
ATTENTION

- Somfy motors are not toys. Do not allow children to play with the control device(s).
- Somfy Motors are not waterproof. Electricity and water do not mix.
- All motors mounted externally require covering.
- All motors must be mounted horizontally.
- Somfy motors are designed for intermittent use only. A thermal overload switch protects the motor from damage caused by overheating.
- Somfy motors are sensitive to impacts. Shocks will damage sensitive parts.
- Drilling into the Somfy motor may cause irreparable damage.
- When installing the Somfy motor in an outdoor application always ensure a 'drip loop' is used.
- Parallel wiring and dual switching of standard Somfy motors is strictly forbidden. See "Wiring Diagrams" section for details.
- Failure to observe the above will void the warranty of the motor and may pose a significant electrical and/ or mechanical hazard.



General Information

Ensure you have read and are familiar with the electrical safety information included in this catalogue. All work, electrical or otherwise must be carried out by trained and competent staff that are familiar with all safety requirements and operational features of a Somfy motor.



MOTOR HEAD

The motor head supports the motorised roller at one end of the installation whilst providing an entry point for the supply cable. Six different mounding positions allow for easy access of the limit switch push buttons.

LIMIT SWITCH

Push button or electronic end of travel limit switches can be easily adjusted to set the exact distance of travel in both the UP and DOWN directions.

MOTOR

The Somfy tubular range comprises asynchronous single phase motors with built in capacitors. They are thermally protected, totally enclosed, brushless motors.

BRAKE

An electromagnetic brake automatically stops and holds the load in any position.

GEARBOX

Planetary type gears lower the rotor speed and increase the torque. The gearbox is lubricated for life.

OUTPUT SHAFT

The output shaft is the point at which the torque, delivered by the motor, is transferred to the roller tube via the drive wheel to which it will be connected.

FUNCTIONING PRINCIPLE

The motor is supported by the bracket and the roller tube.

The motor drives the wheel.

The wheel drives the motor tube.

The roller tube drives the crown.

The crown turns the limit switch unit within the motor.

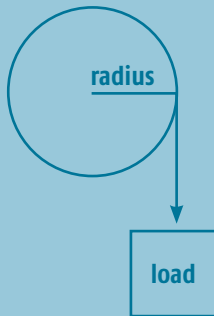
NOTE:

Not all Somfy motors are alike the one shown above. Motor heads, limit switches, output shafts, size, weight, function and overall design can vary depending on the installation type.

General Information

Basic concepts & Catalogue notes

Torque



Torque = load x radius

Torque unit: Nm or mkg (10Nm = 1mkg)

Load unit: N or kg

Radius (diameter ÷ 2) unit: m

Example:

What will be the theoretical weight lifted by a Vega motor (60 Nm or 6 mkg) mounted inside a Ø70 roller tube?

Load = torque ÷ radius

i.e. $60 \text{ Nm} \div 0.035 \text{ m} = 1714$ (171.4 kg)

What is the motor required to lift a 90 kg load with a Ø50 roller tube?

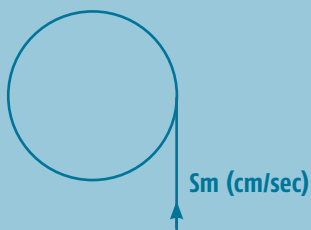
Torque = load x radius

i.e. $900 \text{ N} \times (0.050 \text{ m} \div 2) = 22.5 \text{ Nm}$ (2.25 mkg)

As the roller tube is 50mm in diameter, the motor to choose is in the LT50 or Altus 50 range.

The Gemini or Altus 25 has a torque of 25Nm, so either motor would be suitable to use.

Speed



The speed shown is the rotation speed (in rpm) of the motor, and thus the roller tube.

To calculate the average translation speed of the system (in cm/ sec) being motorised, use the following formula.

$$S_m = ((D + d) \times 3.14 \times n) \div (2 \times 60)$$

d = Diameter of roller tube (cm)

D = Diameter of the system when rolled up (cm)

n = rotation speed (rpm) of motor

To calculate the opening time (in seconds) of a roller shutter, use the following formula.

$$t = h \div S_m$$

h = height of the system (cm)

S_m = average translation speed (cm/sec)