

Somfy LT50 Meteor 20/12

Somfy LT50 Meteor 20/12 Tubular Motor Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Somfy LT50 Meteor 20/12 tubular motor. Please read these instructions carefully before proceeding with any installation or operation.

2. SAFETY INFORMATION

- Ensure all electrical connections are performed by a qualified electrician in accordance with local regulations.
- Disconnect power before performing any installation, maintenance, or troubleshooting.
- Do not allow children to operate the motor or controls.
- Keep hands and loose clothing clear of moving parts during operation.
- The motor is designed for specific applications (e.g., roller shutters, awnings). Do not use it for purposes other than its intended design.
- Regularly inspect the motor and its mounting for signs of wear or damage.

3. PRODUCT DESCRIPTION

The Somfy LT50 Meteor 20/12 is a robust tubular motor engineered for reliable performance in various applications, such as operating roller shutters or awnings. It features a nominal torque of 20 Nm and operates at a speed of 12 revolutions per minute (rpm). The motor is designed for easy integration and user-friendly adjustments.

Key Features:

- **Easy Installation:** Equipped with a 6-position star head for simplified mounting.
- **Quick Limit Switch Adjustment:** End limits can be set rapidly using a dedicated button.
- **Versatile Torque Range:** Part of a series offering a wide selection of torque options.



This image displays the Somfy LT50 Meteor 20/12 tubular motor. The motor is dark blue with a yellow and black end cap. A white label on the motor body details specifications such as 'Somfy', 'LT50', '15 Nm', '17 rpm', '230V~', '50 Hz', '140 W', 'IP 44', '4 min.', 'Made in Tunisia', and various certification marks like NF and CE. The end cap features a white adjustment pin and a yellow output shaft.

4. SETUP AND INSTALLATION

Installation should be carried out by a qualified professional. The following steps provide a general overview:

1. **Preparation:** Ensure the mounting surface and tube are suitable for the motor's dimensions and weight. The motor requires a minimum tube diameter of 50 mm.
2. **Mounting the Motor:** Insert the motor into the tube. Utilize the 6-position star head for secure and flexible mounting within the application's housing.
3. **Electrical Connection:** Connect the motor to the power supply (230V~, 50 Hz) according to the wiring diagram provided with the product packaging. Ensure proper grounding.
4. **Limit Switch Adjustment:** Power on the motor. Use the dedicated adjustment button to set the upper and lower travel limits for your application. Refer to the detailed instructions in the product packaging for precise adjustment procedures.
5. **Testing:** Operate the motor through its full range of motion several times to confirm correct limit switch settings and smooth operation.

5. OPERATING INSTRUCTIONS

The Somfy LT50 Meteor 20/12 motor is typically controlled via a wall switch or a remote control system (sold separately). The operating mode is ON-OFF-ON, allowing for precise control of movement.

- **To Extend/Open:** Press and hold the 'UP' or 'OPEN' button until the desired position is reached, or until the upper limit switch is activated.
- **To Retract/Close:** Press and hold the 'DOWN' or 'CLOSE' button until the desired position is reached, or until the lower limit switch is activated.
- **To Stop:** Press the 'STOP' button or release the 'UP'/'DOWN' button at any point during movement.

6. MAINTENANCE

The Somfy LT50 Meteor 20/12 motor is designed for minimal maintenance. However, periodic checks can ensure its longevity and optimal performance.

- **Cleaning:** Keep the motor and surrounding area free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the motor, wiring, and mounting brackets for any signs of wear, corrosion, or damage. Ensure all connections are secure.
- **Lubrication:** The motor is factory-lubricated and does not require additional lubrication.
- **Professional Service:** If any issues are detected or if the motor's performance degrades, contact a qualified service technician.

7. TROUBLESHOOTING

If you encounter problems with your Somfy LT50 Meteor 20/12 motor, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Motor does not respond	No power supply; Faulty wiring; Remote control battery low; Overheat protection activated.	Check power connection and circuit breaker; Verify wiring connections; Replace remote control batteries; Allow motor to cool down (up to 4 minutes duty cycle).
Motor stops before reaching limits	Incorrect limit switch settings; Obstruction in path.	Re-adjust limit switches according to installation instructions; Check for and remove any obstructions.
Motor runs but application does not move	Motor not properly engaged with the tube; Damaged tube or motor coupling.	Ensure motor is correctly seated and engaged; Inspect tube and motor coupling for damage and replace if necessary.

If the problem persists after attempting these solutions, contact Somfy customer support or a qualified technician.

8. SPECIFICATIONS







Specification	Value
Model	LT50 Meteor 20/12 (1041045 LT50)
Brand	Somfy
Nominal Torque	20 Nm
Speed	12 rpm

Specification	Value
Power Consumption	140 W
Current Draw	0.65 A
Operating Voltage	230V~
Frequency	50 Hz
Motor Length (excl. head)	525 mm
Rivet Distance	510 mm
Theoretical Load Capacity (Ø 50)	80 kg
Minimum Tube Diameter	50 mm
Operating Mode	ON-OFF-ON
Current Rating	20 A
Contact Type	Normally Open
Switch Type	Push-button
Terminal	Button
Material	Plastic
Circuit Type	1 Way
Mounting Type	Surface Mount
Actuator Type	Push Button
Protection Class	IP44
Insulation Class	Class H
Duty Cycle	4 minutes

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or visit the official Somfy website. Somfy offers customer support and a network of authorized service providers to assist with any product-related inquiries or service needs.

Always ensure that any repairs or servicing are carried out by authorized personnel to maintain product warranty and safety standards.

	<p>Somfy 500 Series Databook: Motor Specifications and Applications</p> <p>Comprehensive databook detailing Somfy's 500 Series motors, including Sonesse and LT50 ranges. Features technical specifications, dimensions, control technologies (RTS, Wired, RS485), and accessories for automated window coverings in residential and commercial settings.</p>
	<p>Somfy animeo Motor Controller 4DC IB+ WM AC Technical Specifications</p> <p>Comprehensive technical specifications, overview, installation, and functional features for the Somfy animeo Motor Controller 4DC IB+ WM AC (Ref. 1871120), including wiring diagrams and electrical characteristics.</p>
	<p>Somfy TaHoma Switch Integration Guide for SmartThings</p> <p>Comprehensive guide to integrating Somfy TaHoma switches with Samsung SmartThings for automated control of Zigbee and RTS window coverings and shading devices. This guide covers setup, control, and routine creation.</p>
	<p>Somfy Roll Up 28 WT Installation and User Manual</p> <p>This manual provides comprehensive instructions for the installation, operation, and maintenance of the Somfy Roll Up 28 WT motor, designed for automated window coverings in indoor environments. It details technical specifications, safety guidelines, and troubleshooting tips.</p>
	<p>Somfy Architectural Resource Binder: Motors and Controls for Commercial Buildings</p> <p>A comprehensive guide detailing Somfy's motors and control systems for interior and exterior architectural shading solutions in commercial buildings, covering system architecture, product specifications, integration, and applications.</p>
	<p>Somfy V100+ Videophone: Installation, Setup, and User Guide</p> <p>Comprehensive guide for installing and operating the Somfy V100+ videophone system. Learn about setup, wiring, features, and troubleshooting for your Somfy V100+.</p>