

External venetian blind motor

## ADJUSTMENT INSTRUCTIONS RAFFSTORE MOTOR (SOMFY J4 Protect)

### Hand over instructions to electrician!

The J4 Protect drive from Somfy is installed in the supplied element. The J4 Protect is an electronic motor.

#### Important!

**Read the instructions carefully before assembly.**

The manufacturer accepts no liability for faults resulting from improper storage, assembly, handling or failure to observe these instructions and these guidelines.

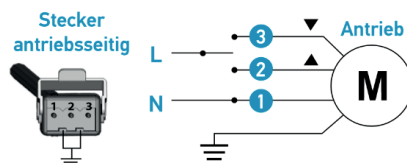
Assembly may only be carried out by qualified personnel.

#### Electrical connection

! Disconnect the power supply!



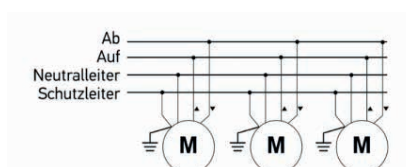
230 V 50 Hz Kabel



Phase (L)	3	Abwärtsbewegung	Braun
	2	Aufwärtsbewegung	Schwarz
Neutralleiter (N)	1		Blau / (Grau)
Schutzleiter (⚡)			Grüngelb

! The drive can be wired in parallel. The maximum load of the switch or control unit must be observed (peak inrush current: 9A for 3 ms).

The phases and neutral conductors of each drive must be connected as shown below.



**ATTENTION: NEVER CONNECT THE DRIVE IN PARALLEL WITH LIMIT SWITCH MOTORS!**

Einstellanleitung\_Raffstore\_M-01

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**! Important notes !**

Never connect the motor under voltage!

The drive may only be connected by an authorised person (licensed electrician).

- a) It is essential to carry out a test run after assembly (use original test cable!)
- b) Make sure that there are no persons in the danger zone during the test run (visual contact with the system)
- c) Always carry out a test run with one engine only.
- d) Carry out at least two complete test runs in UP and DOWN directions.
- e) Each motor has an overheating protection which switches off the drive after a longer test drive for approx. 6min. After a cooling phase of approx. 15min, the motor is ready for operation again.

**Lower end of the guide rails**

A lower guide rail end is installed as standard. These must never be removed (leakage protection).

**Information for electricians**

Be sure to run empty conduits up to the cable outlet of the product. **It is essential to seal empty pipework on the room side.** When carrying out inspection work on the motor (lightning strike), it must be possible to pull out the cable when removing the motor. When using control units in the control cabinet, an accessible terminal box must be placed near the element.

Never connect the motor while it is live! The motor cable must be checked for damage before installation. Cross-section of the mains cable 1.5mm<sup>2</sup>.

If the motor cable is shortened, it is essential to fit wire end sleeves at the terminal point.

Only use mechanically counter-locked switches or push-buttons or electronically locked control devices such as blind push-buttons.

Switches, push-buttons and automatic control units must have a delay lock of at least 0.5 sec. A minimum switching pulse duration of 0.5 sec. must be given and the UP and DOWN relays must be mutually interlocked for control devices. The control time must be longer than the travel time of the respective element. This reduces the residual voltage in the motor and protects the capacitor. Pay attention to this changeover time, especially with bus controls!

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### **Commissioning**

End positions are set at the factory.

The switching sensor for the upper end position (safety stop) is only provided with the RAPE system.

### **Changing the end positions**

Move the blind to the middle position.

Press the UP and DOWN buttons simultaneously for approx. 5 seconds until the blind moves briefly. Move the blind to the desired end position (up and down) and confirm by pressing the DOWN button.