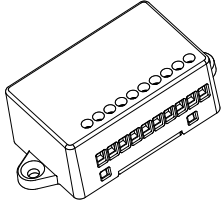


Instruction manual for centralization module 596.M.UM.00



WARNINGS


Dear Customer, thank you for purchasing a STAFER product.

This manual will provide important information regarding methods of use and safe installation. **Comply with the information contained herein and keep this manual for future reference.** The 596.M.UM.00 module is suitable for controlling a single-phase asynchronous motor supplied with mains voltage for the operation of blinds, awnings or similar articles. Any other use is improper and prohibited, and shall void the warranty.

PLEASE CAREFULLY READ THIS MANUAL TO ENSURE CORRECT INSTALLATION.

STAFER cannot be held liable for any damage caused by improper, erroneous or unreasonable use.

DISPOSAL

At the end of the product's life cycle, dispose of it in accordance with local regulations, or return it to the retailer when purchasing a new equivalent product. This product may contain substances that are polluting for the environment and dangerous to health; it is forbidden to dispose of the product in domestic waste. 

1. TECHNICAL SPECIFICATIONS (referred to the temperature of 20 °C)

Power supply:	120 or 230 Vac 50/60 Hz	Work time:	from 1 second to 250 seconds
Contact rating:	10 A@250 Vac	Dimensions:	40 x 84 x H.26 mm
Protection grade:	IP20	Operating temperature:	from -20 to +55 °C

2. WARNINGS ON INSTALLATION SAFETY

- The product must be installed by qualified technical personnel, in order to comply with the laws in force in the area.
- Check that the package is intact and has not been damaged during transport.
- The module is subjected to hazardous electrical voltage. Make all connections with the power supply disconnected.
- Always connect the motor with the ground wire (yellow/green).
- Adjust the motor limit switches before connecting the motor to the module.
- Use command buttons with spring return, do not use switches with maintained position. The buttons are subjected to the mains voltage and, therefore, must be adequately insulated and protected. The command buttons must be visible/near the application, but distant from any moving parts and at a height of at least 1.5m.
- It is forbidden to connect more than one motor to the module. If more motors need to be connected, use the appropriate expansion cards.
- The power line must be equipped with a magnetothermal or differential circuit breaker. A category III overvoltage disconnection device must be fitted on the power supply line, i.e. at a distance of at least 3.5 mm between the contacts.
- Do not modify, open or replace parts without authorization from the Manufacturer.
- For your safety, do not work near the coiler while the motor is powered.
- In the event of malfunctioning, do not operate the commands and notify the installation technician.
- Work safely on the module, using appropriate tools.
- The product is designed to be installed inside junction boxes. The module does not provide any protection against water and only an essential protection when in contact with solid parts. It is forbidden to install the module in areas that are not adequately protected, and near heat sources.
- Check that the power line does not feed on electrical circuits to be used for lighting.
- The module does not provide any protection against overloads or short circuits on the outputs. For this reason, it is necessary to protect the charge, for example with a 3.15A fuse.

2.1. Power supply

The module can be powered at 120 or 230 Vac and 50/60 Hz frequency. Voltage must be applied to terminals 1 and 2.

2.2. Motor connection

The motor windings must be connected to terminals 9 and 8, the common motor wire must be connected to terminal 10. It is forbidden to connect more than one motor directly to the module. If it is necessary to operate several motors with a module, use the appropriate grouping cards.

2.3. Connecting the single "S" command buttons

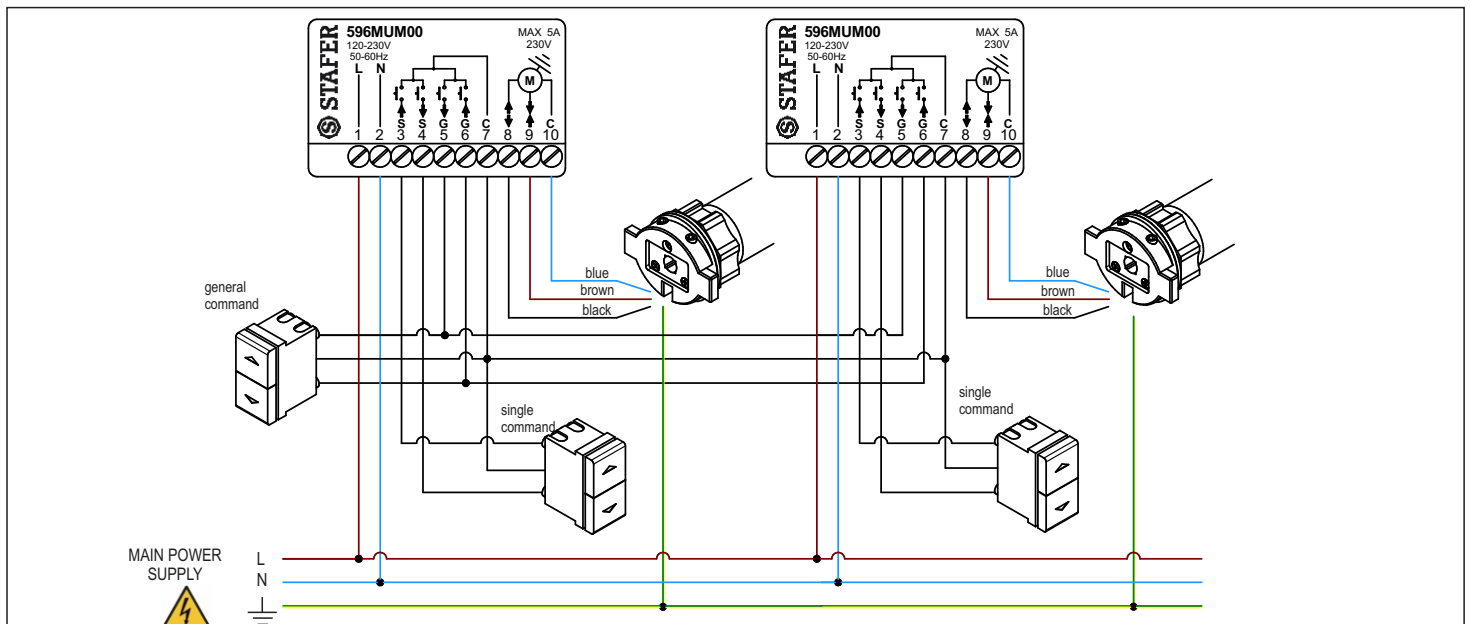
The single command buttons must be connected to terminals 3 and 4 and must close on 7.

The single command buttons must feature return springs, do not use switches with maintained position. Multiple single command buttons can be connected via a parallel connection.

For the correct operation of the system, it is necessary to check that the closing of the button connected to terminal 3 (▲S, single "up") corresponds to the motor lifting manoeuvre; otherwise, reverse the wires of the motor windings to terminals 8 and 9.

2.4. Connection of general command buttons

The general command buttons must be connected to terminals 5 and 6 and must close on terminal 7. **The general command buttons must feature return springs, do not use switches with maintained position.** Multiple general command buttons can be connected via a parallel connection.



3. BUTTON OPERATION LOGIC

The single and general command buttons can work in two different operating logics: "pulse" or "man present". The procedure for selecting the button operating logic is described in point 4.4 ("selection of button operating logic"). **The factory sets the buttons in "pulse" mode.**

"Pulse" logic

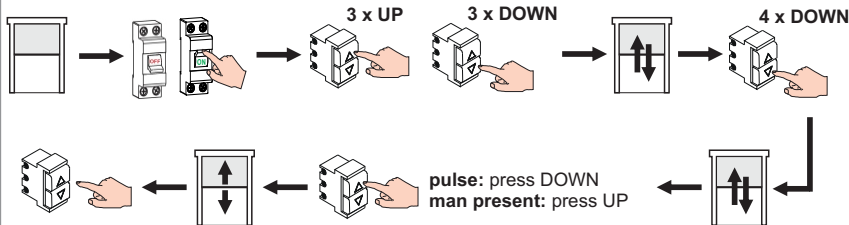
To apply a single up or down command, press the relative button for at least 0.5 sec; to stop the manoeuvre, briefly press any of the command buttons (single or general). To apply a general up or down command, press the relative button for at least 0.5 sec; to stop the manoeuvre, briefly press any of the command buttons (single or general). The general ascent and descent manoeuvres will be carried out in compliance with the switch-on delay on the general command, as described in point 4.2 ("Switch-on delay on the general command").

"Man present" logic (mandatory if the module is combined with 596REU00 control units)

To apply a single or general up or down command, press the relative button; the manoeuvre will be interrupted as soon as the button is released. If the buttons work in accordance with the "man present" logic, the "Switch-on delay on the general command" function is not available.

PROCEDURE TO CHANGE THE BUTTON LOGIC

- Bring the motor to the intermediate position.
- Turn off the power, wait a few seconds, then power up again.
- Within 15 seconds, briefly and quickly press **UP 3 times** and **DOWN 3 times**. The motor completes 1 up/down movement.
- Within 15 seconds, briefly and quickly press **DOWN 4 times**. After 10 seconds the motor reports the current setting:
1 UP = man present, 1 DOWN = pulse.
- Within 5 seconds, as needed:
To select "Pulse": briefly press **DOWN**.
To select "Man present": briefly press **UP**.
- After 2 seconds the motor indicates: 1 UP = man present, 1 DOWN = pulse. Wait 5 seconds to exit the menu.

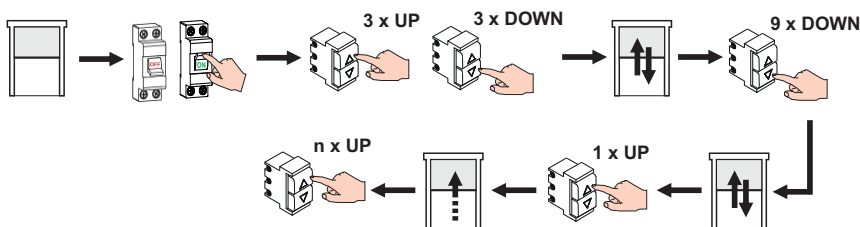


4. SWITCH-ON DELAY ON THE GENERAL COMMAND

The module is equipped with inputs for the general command. If it becomes necessary to stagger motor activation so as not to overload the power supply line, it is possible to use the "Switch-on delay on the general command" function. The general ascent and descent commands will be carried out by the module after the switch-on delay selected. The factory sets the switch-on delay on the general command to **1 (0 seconds = immediate start)**.

PROCEDURE FOR THE ACTIVATION OF THE DELAY ON THE GENERAL COMMAND

- Bring the motor to the intermediate position.
- Turn off the power, wait a few seconds, then power up again.
- Within 15 seconds, briefly and quickly press UP 3 times and DOWN 3 times. The motor completes 1 up/down movement.
- Within 15 seconds, briefly and quickly press DOWN 9 times. After 10 seconds the motor shows: up/down.
- Briefly press UP once.
The motor signals the current value by means of an upward movement, corresponding to a delay, from 1 to 10 (see Table)
- Within 5 seconds, as needed, press UP for the desired number of times.
- After 2 seconds, the motor replicates the number of selected movements. If they do not match, press again. At the end, wait 5 seconds to exit the menu.



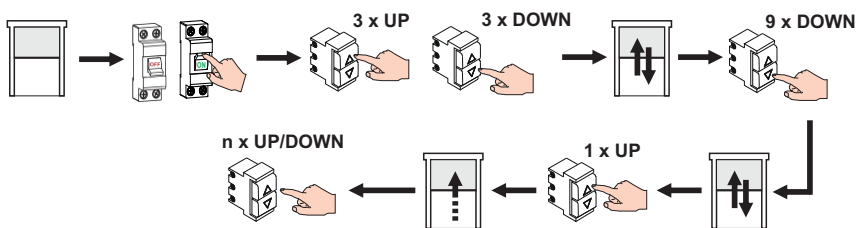
Motor movements	1	2	3	4	5	6	7	8	9	10
Switch-on delay	0 sec	5 sec	10 sec	15 sec	20 sec	25 sec	30 sec	35 sec	40 sec	45 sec

5. WORK TIME

The module allows programming the work time (after which the motor is cut off). The factory sets the work time to 120 sec. The work time can vary from a minimum of 5 sec to a maximum of 240 sec.

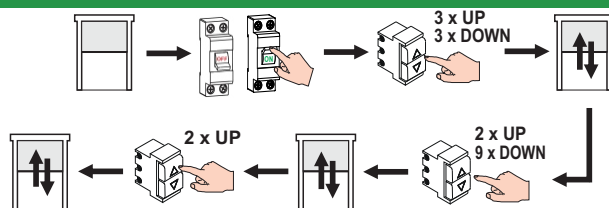
PROCEDURE TO CHANGE THE WORK TIME

- Bring the motor to the intermediate position.
- Turn off the power, wait a few seconds, then power up again.
- Within 15 seconds, briefly and quickly press UP 3 times and DOWN 3 times. The motor completes 1 up/down movement.
- Within 15 seconds, briefly and quickly press DOWN 8 times. After 10 seconds the motor shows: up/down.
- Briefly press UP once.
The motor moves to indicate the current value. Hundreds, tens, units.
Ex: 120 sec. = 1 UP movement + 2 UP movements + long movement.
- To set, press UP for the desired number of times and confirm each number by pressing DOWN.
Ex.: 15 sec. = once UP, once DOWN, 5 times UP, once DOWN
Ex.: 130 sec. = once UP, once DOWN, 3 times UP, once DOWN, once DOWN.
- After 2 seconds, the motor replicates the number of selected movements. If they do not match, repeat the operation within 5 seconds. At the end, wait 5 seconds to exit the menu.



6. FACTORY VALUE RESET

- Bring the motor to the intermediate position.
- Turn off the power, wait a few seconds, then power up again.
- Within 15 seconds, briefly and quickly press **UP 3 times** and **DOWN 3 times**. The motor moves up/down.
- Within 15 seconds, briefly and quickly press **UP twice** and **DOWN 9 times**. The motor performs 6 up/down movements.
- At the end of the movements, briefly press **UP twice**.
- The motor signals that the reset has been carried out (1 up/down movement).



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Unless previously and specifically authorised by STAFER, the device must be used exclusively with transmitters produced by STAFER.
STAFER cannot be considered responsible for damage caused by improper, incorrect or unreasonable uses.