

4 AC Motor Controller 220–240 V AC WM-P2

| animeo Solo | animeo IB+ | **animeo KNX** | animeo LON |

SOLUTIONS FOR COMMERCIAL BUILDINGS



Ref. 1860197

Motor controller for roller shutters, screens, exterior Venetian blinds and windows.

To individually control four 230 V AC motors.

Available in wall-mounted version and designed for Wago Winsta® plug connectors.

Installation advantages

- > The use of plug connectors enables time savings and less wiring errors.
- > Flexible installation options: on DIN rail or with screws.
- > Testing of running direction of the motors can be done with the motor controller itself before the ETS integration programming.

Functional advantages

- > Via local standard switches users can control the solar shading to the desired position and overwrite automatic operation.
- > Each motor output can be controlled individually using KNX or via individual switches.
- > The 8 inputs to connect local push-button switches can also be used to send orders via KNX to create – with ETS – individual groups of motors controlled by local switches.
- > The inputs can also manage switching and dimming via the KNX bus.
- > By plugging the KNX/RTS receiver (ref. 1860191) into the motor controller at any time, the RTS range of user interfaces can be used.

Wiring

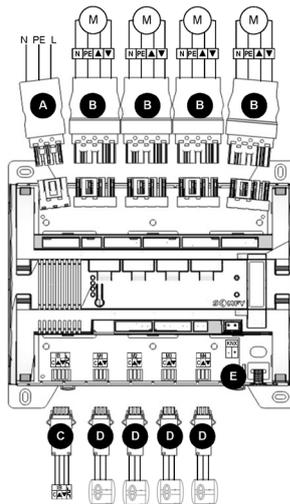
| Connection | Cables | Twisted pairs | Max. distance |
|----------------------|---|---|---------------|
| Motors | Min.: 4 x 0.75 mm ² /19 AWG Max.: 4 x 2.5 mm ² /14 AWG | – | 150 m |
| Switches | Min.: 3 x 0.6 mm ² /22 AWG Max.: 3 x 2.5 mm ² /14 AWG | Recommended | 100 m |
| Group control | Min.: 3 x 0.6 mm ² /22 AWG Max.: 3 x 1.5 mm ² /16 AWG | Recommended | 50 m |
| KNX bus | 2 x 0.8 mm ² /20 AWG | Required, following KNX topology guidelines | |
| 220–240 V AC | Min.: 3 x 1.5 mm ² /16 AWG Max.: 3 x 2.5 mm ² /14 AWG | – | |

Classification

The Motor Controller is an electronically and manually-operated, independently-mounted control.

- Class A control function
- Type 1 action
- Pollution degree: 2
- Rated impulse voltage: 4 kV
- Temperature of the ball hardness test: 75 ° C
- Type X attachment
- Method of attachment for non-detachable cords: screwless spring terminal
- EMC emission test: $U_{AC} = 230V AC$ $I_{AC} = 0.5 A$ (EN 55022 Class B emission)

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| | Connection to | PCB Connector | Cable connector | Mounting shell | Remarks |
|----|---------------|------------------|---|----------------|-----------------------------------|
| A | 230 V AC | 770-813/011-000* | 770-103* | (included) | |
| A' | | | 770-113* via h-connector 770-633* | (included) | Only needed to loop through power |
| B | Motors | 770-804/011-000* | 770-114* | (included) | |
| C | Group Control | 734-164* | 734-104/037-000* | 734-604* | |
| D | Switches | 734-163* | 734-103/0347-000* | 734-603* | |
| E | KNX bus | | red/black standard connectors, directly on the KNX bus module | 734-603* | mounted under housing flap |

*Wago ref.

CHARACTERISTICS

| | |
|---|---|
| Supply voltage | 220-240 V AC / 50/60 Hz |
| Stand-by current (IEC 62301) | 6 mA @ 230 V AC |
| Stand-by power (IEC 62301) | < 0.5 W @ 230 V AC |
| Supply voltage from KNX Bus | KNX-voltage 21 ... 30 V DC, SELV |
| Rated current consumption KNX | As per KNX guideline; 10 mA |
| Max. motor current consumption | 4 x 3.0 A, $\cos \varphi = 0.95$ |
| Supply voltage of group control input | SELV, 16 V DC = |
| Supply voltage of local push buttons | SELV, 16 V DC = |
| Fuse for all outputs | 4 x F 3.15 AH |
| Terminals | Wago connectors |
| Terminal KNX | KNX bus terminal (black/red) |
| Running time per output (relay contact) | Max. 5 minutes |
| Operating temperature | 0 °C to 45 °C |
| Relative humidity | 85 % |
| Material of housing | CC-ABS polycarbonate |
| Housing dimensions (w x h x d) | 220 x 255 x 63 mm |
| Degree of protection | IP 20 |
| Protection class | II (looped through PE connection - depending on the installation) |
| Conformity | www.somfy.com/ce |