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 Wieland 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**

<table>
<thead>
<tr>
<th>Connection</th>
<th>Cables</th>
<th>Twisted pair</th>
<th>Max. distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motors</td>
<td>Min.: 4 x 0.75 mm²/19 AWG</td>
<td>–</td>
<td>150 m</td>
</tr>
<tr>
<td></td>
<td>Max.: 4 x 2.5 mm²/14 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switches</td>
<td>Min.: 3 x 0.6 mm²/22 AWG</td>
<td>Recommened</td>
<td>100 m</td>
</tr>
<tr>
<td></td>
<td>Max.: 3 x 2.5 mm²/14 AWG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNX bus</td>
<td>2 x 0.8 mm²/20 AWG</td>
<td>Required, following KNX topology guidelines</td>
<td>50 m</td>
</tr>
<tr>
<td>220–240 VAC</td>
<td>Min.: 3 x 1.5 mm²/16 AWG</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Max.: 3 x 2.5 mm²/14 AWG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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: $U_{ac} = 230\,\text{V AC}$ $I_{ac} = 0.5\,\text{A}$ (EN 55022 Class B emission)
4 AC Motor Controller 220–240 V AC WM-P

**Connection to** | **PCB Connector** | **Cable connector** | **Remarks**
--- | --- | --- | ---
A | 230 V AC | 92.034.0058.1 | 92.933.0053.1
B | Motors Out (4 x) | 92.043.0058.1 | 92.944.0053.1
C | IB+ Bus in | 92.043.0058.0 | 92.944.0153.0
D | Local switch (4 x) | 93.431.2653.1 | 93.432.2553.1
E | Motor Controller Extension | 93.082.1558.1 | 93.941.0558.1
F | KNX | red/black standard connectors, directly on the KNX bus module | mount under housing flap

**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 ϕ = 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** | Wieland 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)** | 180 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