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

<table>
<thead>
<tr>
<th>Connection</th>
<th>Cables</th>
<th>Twisted pairs</th>
<th>Max. distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motors</td>
<td>Min.: 4 x 0.75 mm²/18 AWG Max.: 4 x 2.5 mm²/13 AWG</td>
<td>–</td>
<td>150 m</td>
</tr>
<tr>
<td>Switches</td>
<td>Min.: 3 x 0.6 mm²/22 AWG Max.: 3 x 2.5 mm²/13 AWG</td>
<td>Recommended</td>
<td>100 m</td>
</tr>
<tr>
<td>Group control</td>
<td>Min.: 3 x 0.6 mm²/22 AWG Max.: 3 x 1.5 mm²/15 AWG</td>
<td>Recommended</td>
<td>50 m</td>
</tr>
<tr>
<td>KNX bus</td>
<td>2 x 0.8 mm²/20 AWG</td>
<td>Required, following KNX topology guidelines</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: 2.5 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: \( U_{\text{ac}} = 230 \text{ V AC} \quad I_{\text{ac}} = 0.03 \text{ A} \) (EN 55022 Class B emission)
### Characteristics

<table>
<thead>
<tr>
<th>Connection to</th>
<th>PCB Connector</th>
<th>Cable Connector</th>
<th>Mounting Shell</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 220–230 V AC</td>
<td>770–813/011–000*</td>
<td>770–103*</td>
<td>(included)</td>
<td></td>
</tr>
<tr>
<td>A' 770–804/011–000*</td>
<td>770–113* via h-connector 770–633*</td>
<td>(included)</td>
<td>Only needed to loop through power</td>
<td></td>
</tr>
<tr>
<td>B Motors</td>
<td>770–103*</td>
<td>(included)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Group Control</td>
<td>734–164*</td>
<td>734–104/037–000*</td>
<td>734–604*</td>
<td></td>
</tr>
<tr>
<td>D Switches</td>
<td>734–163*</td>
<td>734–103/0347–000*</td>
<td>734–603*</td>
<td></td>
</tr>
<tr>
<td>E KNX bus</td>
<td>red/black standard connectors, directly on the KNX bus module</td>
<td>734–603*</td>
<td>mounted under housing flap</td>
<td></td>
</tr>
</tbody>
</table>

*Wago ref.*

**Supply voltage**

220–230 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 ... 32 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**

-5 °C to 45 °C

**Relative humidity**

Max. 85%

**Material of housing**

PC-ABS

**Housing dimensions (w x h x d)**

220 x 255 x 63 mm

**Degree of protection**

IP 20

**Protection class**

I (looped through PE connection – depending on the installation)

**Conformity**

www.somfy.com/ce