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

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 mm²/19 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>Recommended</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>Group control</td>
<td>Min.: 3 x 0.6 mm²/22 AWG</td>
<td>Recommended</td>
<td>50 m</td>
</tr>
<tr>
<td></td>
<td>Max.: 3 x 1.5 mm²/16 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>–</td>
</tr>
<tr>
<td>220–240 V AC</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: \[ U_{ac} = 230 \text{ V AC} \quad I_{ac} = 0.5 \text{ A} \] (EN 55022 Class B emission)
**SolutionS for commercial building S**

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, $\cos \phi = 0.95$
- **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](http://www.somfy.com/ce)