4 DC/E Motor Controller WM 220–230 V AC

Motor Controller for interior roller blinds and interior Venetian blinds.

To individually control up to four 24 V DC motors or 24 V DC/E encoder motors via local push buttons or in groups with IB+ controlling technology.

Available in wall-mounted version (WM).

Installation advantages

- Easy installation thanks to integrated 24 V DC power supply.
- Easy and quick commissioning in combination with the animeo KNX Master Control.
- Spring connectors and tension relief with cable ties for safer and quicker installation.
- Status feedback through LEDs.
- Indication in case of overload.

Functional advantages

- Local push button inputs can be used for up to 8 freely definable binary inputs.
- Local setting of an intermediate position and user ergonomics.
- Configurable up and down speed in combination with the animeo KNX Master Control.
- Configurable slats and rotation speed for optimum user ergonomics.
- Enables very precise slats orientation and/or load bars alignment thanks to Somfy LW25 E83 Motor Encoder.
- Upgradable at any time for local controlling through radio Somfy RTS or EnOcean technology.
- Up to 5 freely definable radio binary inputs are available when using pluggable radio cards.

Installation advantages

> Easy installation thanks to integrated 24 V DC power supply.
> Easy and quick commissioning in combination with the animeo KNX Master Control.
> Spring connectors and tension relief with cable ties for safer and quicker installation.
> Status feedback through LEDs.
> Indication in case of overload.

Functional advantages

> Local push button inputs can be used for up to 8 freely definable binary inputs.
> Local setting of an intermediate position and user ergonomics.
> Configurable up and down speed in combination with the animeo KNX Master Control.
> Configurable slats and rotation speed for optimum user ergonomics.
> Enables very precise slats orientation and/or load bars alignment thanks to Somfy LW25 E83 Motor Encoder.
> Upgradable at any time for local controlling through radio Somfy RTS or EnOcean technology.
> Up to 5 freely definable radio binary inputs are available when using pluggable radio cards.

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.: 3 x 0.6 mm²/22 AWG Max.: 3 x 2.5 mm²/13 AWG</td>
<td>Recommended</td>
<td>20 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>
<tr>
<td>220–230 V AC</td>
<td>Min.: 3 x 1.5 mm²/15 AWG Max.: 3 x 2.5 mm²/13 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: 87 °C
- Type X attachment
- Method of attachment for non-detachable cords: screwless spring terminal
- EMC emission test: (EN 55022 Class B emission) $U_{ac} = 230\,\text{V AC}$ $I_{ac} = 0.05\,\text{A}$
**CHARACTERISTICS**

**Supply voltage**
220–230 V AC / 50/60 Hz

**Stand-by current (IEC 62301)**
< 0.05 A @ 230 V AC

**Stand-by power (IEC 62301)**
< 4 W @ 230 V AC

**Supply voltage from KNX bus**
KNX-voltage 21 ... 32 V DC, SELV

**Rated current consumption KNX**
As per KNX guidelines, 10 mA

**Max. motor current consumption**
4 x 0.6 A @ 24 V DC

**Supply voltage of group control input**
SELV, 16 V DC =

**Supply voltage of local push buttons**
SELV, 16 V DC =

**Output**
Short circuit protected

**Terminals**
Spring connectors

**Terminal KNX**
KNX bus terminal (black/red)

**Running time per output (relay contact)**
Max. 5 minutes or 5000 mm

**Operating temperature**
0 °C to 45 °C

**Relative humidity**
max. 85%

**Material of housing**
PC-ABS

**Housing dimensions (w x h x d)**
180 x 255 x 61 mm

**Weight**
790 g

**Degree of protection**
IP 20

**Protection class**
II

**Conformity**
www.somfy.com/ce