

# animeo KNX

## Motor Controller

KNX/EIB INTEGRATION · COMMERCIAL BUILDINGS

KNX/EIB · 230V AC · 4-CHANNEL CONTROL

Hard-wired motor controller for up to four 230V AC exterior venetian blind motors. Integrates with KNX/EIB building automation systems and is programmable via ETS software. Available in wall-mounted (WM) and din-rail mounted (DRM) versions. Extendable with Somfy RTS radio module.

### KNX

COMPATIBLE WITH:

KNX/EIB · ETS Software · Somfy RTS · animeo ILT



MOTOR & CONTROL TECHNOLOGY BY



**animeo KNX 4AC Motor Controller DRM**

Din-Rail Mounted Version · Ref. 1860116

**4**

CHANNELS

**KNX**

BUS

**IP20**

PROTECTION

## KEY FEATURES

- Controls up to four 230V AC motors independently
- Spring connectors for fast, secure installation
- Status LED and KNX Prog indicator per unit
- Accessible safety fuses per output (4× F 3.15AH)
- Programmable via ETS software for full KNX integration
- Local push-button inputs usable as KNX binary inputs
- Extendable with KNX/RTS receiver (Ref. 1860191)
- Mix-systems: different motor types on one controller

## TECHNICAL CHARACTERISTICS

SPECIFICATION	WM Ref. 1860114	DRM Ref. 1860116
Supply Voltage	220–230V AC / 50–60Hz	220–230V AC / 50–60Hz
Stand-by Current (IEC 62301)	6 mA @ 230V AC	6 mA @ 230V AC
Stand-by Power (IEC 62301)	< 0.5W @ 230V AC	< 0.5W @ 230V AC
Supply Voltage from KNX Bus	KNX-voltage 21...32V DC, SELV	KNX-voltage 21...32V DC, SELV
Rated Current Consumption KNX	As per KNX guideline; 10 mA	As per KNX guidelines; 10 mA
Max. Motor Current	4 × 3.0A, cos φ = 0.95	4 × 3.0A, cos φ = 0.95
Supply Voltage of Group Control	SELV, 16V DC	SELV, 16V DC
Supply Voltage of Local Push Buttons	SELV, 16V DC	SELV, 16V DC
Fuse per Output	4 × F 3.15 AH	4 × F 3.15 AH
Terminals	Spring connectors	Spring connectors
Terminal KNX	KNX bus terminal (black/red)	KNX bus terminal (black/red)
Running Time per Output (relay)	Max. 5 minutes	Max. 5 minutes
Operating Temperature	-5°C to 45°C	-5°C to 45°C
Relative Humidity	Max. 85%	Max. 85%
Material of Housing	PC-ABS	PC-ABS
Dimensions (W × H × D)	180 × 255 × 61 mm	90 × 210 × 61 mm (12 HP)
Degree of Protection	IP 20	IP 20
Protection Class	I (looped through PE connection)	I (looped through PE connection)
Conformity	www.somfy.com/ce	www.somfy.com/ce

## PRODUCT VARIANTS

**1860114**

**animeo KNX 4AC WM**

Wall-Mounted

180 × 255 × 61 mm · ~710g

**1860116**

**animeo KNX 4AC DRM**

Din-Rail Mounted (12 HP)

90 × 210 × 61 mm · ~370g

## KNX/EIB INTEGRATION

The animeo KNX 4AC Motor Controller integrates directly with KNX/EIB building automation systems, enabling centralised control of up to four 230V AC exterior venetian blind motors via the KNX bus. The controller is fully programmable using ETS (Engineering Tool Software), allowing configuration of individual motor groups, safety positions, and automated sun protection responses. The 8 local push-button inputs can be repurposed as universal KNX binary inputs, enabling connection of sun sensors, room thermostats, or presence detectors without additional wiring. The controller is compatible with all KNX/EIB third-party devices and can be used "out of the box" without ETS programming for basic operation.

**KNX NOTE:** The animeo KNX 4AC Motor Controller requires a KNX bus power supply (21–32V DC SELV) on the KNX bus. Current consumption from KNX bus: 10 mA per KNX guidelines. KNX bus cable: 2×0.5mm<sup>2</sup> twisted pair (green). For ETS programming, download the ETS application from [www.somfy.com](http://www.somfy.com). Refer to the animeo KNX Operating Manual.

## SYSTEM OVERVIEW

The animeo KNX 4AC Motor Controller is a hard-wired motor controller designed for integration into KNX/EIB building automation systems. It controls up to four independent 230V AC exterior venetian blind motors via the KNX bus. The controller supports local manual override via push buttons at each motor, while the KNX bus enables centralised scheduling, group control, and automated solar protection responses. Unlike the animeo IB+ system, the KNX controller is compatible with all third-party KNX/EIB devices and is programmable via the industry-standard ETS software.

## KNX/EIB SYSTEM ARCHITECTURE



## WIRING SPECIFICATIONS

CONNECTION	CABLE SIZE	TWISTED PAIRS	MAX. DISTANCE
<b>Motors</b>	4×0.75mm <sup>2</sup> min / 4×2.5mm <sup>2</sup> max	—	—
<b>Switches</b>	3×0.28mm <sup>2</sup> min / 3×2.5mm <sup>2</sup> max	Recommended	100m
<b>Group Control</b>	3×0.28mm <sup>2</sup> min / 3×1.5mm <sup>2</sup> max	Recommended	50m
<b>KNX Bus</b>	2×0.5mm <sup>2</sup> /20AWG	Required (KNX topology)	—
<b>220–230V AC Mains</b>	3×1.5mm <sup>2</sup> min / 3×2.5mm <sup>2</sup> max	—	—

## CLASSIFICATION

The animeo KNX 4AC 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 ball hardness test: 75°C
- Type X attachment
- Screwless spring terminal connections
- EMC: EN 55022 Class B emission (U<sub>ac</sub> = 230V DC)

## FUNCTIONAL ADVANTAGES

- Position feedback per motor output during movement
- Two safety positions freely definable per motor output
- Safety position after mains voltage return definable
- Automatic cascading of outputs on mains voltage return
- Bus safety function to minimise current peaks
- Remote control via animeo infrared module (hospitals)
- Individual fuse protection per motor output
- Mix-systems: different motor types on one controller

## INSTALLATION ADVANTAGES

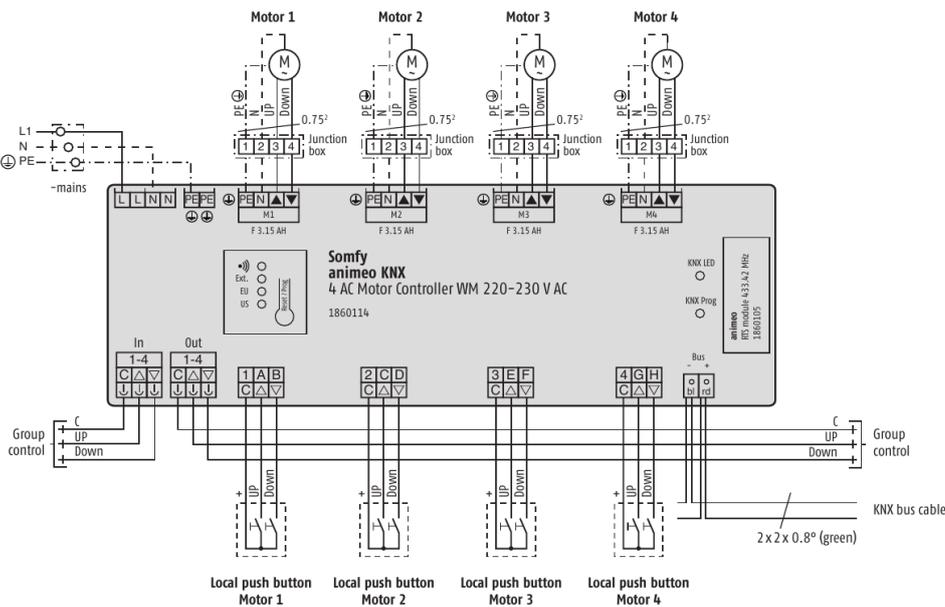
<b>Plug Connectors</b>	Spring connectors enable time savings and reduce wiring errors
<b>Flexible Mounting</b>	Install on DIN rail or with screws · WM or DRM versions
<b>Motor Direction Test</b>	Test running direction from controller before ETS programming
<b>Push Button Inputs</b>	Up to 8 inputs usable as KNX binary inputs for third-party devices
<b>RTS Extendability</b>	Add KNX/RTS receiver (Ref. 1860191) for Somfy RTS radio control

**SYSTEM WIRING DIAGRAM**

The following diagram shows the complete wiring arrangement for the animeo KNX 4AC Motor Controller WM/DRM 220–230V AC. The controller connects to mains supply (L1, N, PE), up to four 230V AC motors via junction boxes, local push buttons for each motor, and the KNX bus (2x0.5mm<sup>2</sup> twisted pair, green) for building automation integration. Group control inputs are provided on both left and right sides of the controller.

**4 AC Motor Controller WM/DRM 220-230 V AC**

SOLUTIONS FOR COMMERCIAL BUILDINGS



**CHARACTERISTICS**

**WIRING NOTES**

<b>Mains Supply</b>	L1 (Active), N (Neutral), PE (Earth) · 220–230V AC / 50–60Hz
<b>Motor Outputs</b>	Each motor: PE, N, UP (raise), DOWN (lower) via junction box · 0.75mm <sup>2</sup> min.
<b>Fusing</b>	4 × F 3.15 AH fuses — one per motor output · M1, M2, M3, M4
<b>KNX Bus</b>	2x0.5mm <sup>2</sup> /20AWG twisted pair (green) · Black/Red terminal · KNX topology
<b>Group Control</b>	C (Common), UP, DOWN · Both left and right sides of controller
<b>Local Push Buttons</b>	C (Common), UP, DOWN per motor · SELV 16V DC · Max. 100m
<b>In/Out Switch Inputs</b>	1–4 (C, A/V, Up/Down) per motor · SELV 16V DC · Max. 50m
<b>KNX LED / KNX Prog</b>	Status indicators for KNX bus connection and programming mode
<b>RTS Module Slot</b>	animeo RTS module 433.42 MHz (Ref. 1860105) — pluggable, no rewiring
<b>Ext. / EU / US</b>	External connection port and regional configuration switches

## KNX/EIB SYSTEM OVERVIEW — SOMFY MOTOR CONTROLLING DEVICES

The animeo KNX/EIB system provides seamless integration with the KNX/EIB open bus standard, enabling Dynamic Façade Management within any KNX-compliant building automation system. The system is completely compatible with KNX/EIB devices from third-party providers, including lighting, air conditioning, heating, and security systems. The KNX/EIB bus connects ETS software, outdoor sensors (sun, wind, rain), weather stations, and motor controllers in a single unified network.

## SOMFY KNX/EIB MOTOR CONTROLLER RANGE

PRODUCT	REFERENCE	APPLICATION
KNX/EIB 4 AC Motor Controller WM	1860114	Wall-mounted · 4× 230V AC exterior venetian blind motors
KNX/EIB 4 AC Motor Controller DRM	1860116	Din-rail mounted (12HP) · 4× 230V AC exterior venetian blind motors
KNX/EIB 4 DC Motor Controller WM	—	4× 24V DC exterior venetian blind motors
KNX/EIB 4 DC/DC-E Motor Controller WM	—	4× 24V DC motors with encoder feedback · Venetian blinds with CTS 25 system
KNX/EIB ILT Interface 510i	—	Infrared interface for buildings where radio technology cannot be used

## ETS PROGRAMMING NOTES

<b>Out of the Box</b>	Controller works without ETS programming for basic up/down motor control
<b>ETS Application</b>	Download ETS application file from <a href="http://www.somfy.com">www.somfy.com</a> for full KNX configuration
<b>Group Addresses</b>	Assign KNX group addresses for individual and group motor control via ETS
<b>Binary Inputs</b>	Configure push-button inputs as KNX binary inputs for third-party sensors
<b>Safety Positions</b>	Define up to two safety positions per motor output in ETS parameters
<b>Advanced Mode</b>	Enable advanced mode to disable non-security commands during local operation
<b>Motor Groups</b>	Create motor groups via ETS to control multiple motors from a single switch
<b>Position Feedback</b>	Configure position feedback objects for integration with BMS displays

## PRE-INSTALLATION CHECKLIST

- Confirm motor running direction before connecting to controller outputs
- Configure motor end-limits on each motor prior to connection to the controller
- Verify mains supply is 220–230V AC / 50–60Hz before energising the unit
- Confirm KNX bus power supply (21–32V DC SELV) is available on the KNX bus
- Use 2×0.5mm<sup>2</sup> twisted-pair (green) cable for KNX bus — follow KNX topology guidelines
- Test each motor output independently via local push buttons before KNX commissioning
- Download and install the ETS application from [www.somfy.com](http://www.somfy.com) before programming
- Assign KNX group addresses for all required motor control and feedback objects

### SOMFY TECHNICAL SUPPORT

Full technical support for the animeo KNX 4AC Motor Controller is provided by Somfy Australia. Contact Somfy at [somfy.com.au](http://somfy.com.au) or call 1300 766 394 for product and KNX integration support.