

4AC

Motor Controller

HOME AUTOMATION · BMS INTEGRATION

animeo IB+ · 230V AC · 4-CHANNEL CONTROL

Hard-wired motor controller for up to four 230V AC external venetian blind motors. Integrates with Home Automation Systems (HAS) and Building Management Systems (BMS) via animeo IB+ technology. Available in wall-mounted (WM) and din-rail mounted (DRM) versions.

COMPATIBLE WITH:

animeo Solo · animeo IB+ · animeo KNX · animeo LON



MOTOR & CONTROL TECHNOLOGY BY





animeo IB+ 4AC Motor Controller WM
Wall-Mounted Version · Ref. 1860049

4
CHANNELS

230V
AC SUPPLY

IP20
PROTECTION

KEY FEATURES

- Controls up to four 230V AC motors independently
- Spring connectors for fast, secure installation
- Status LED feedback per output channel
- Accessible safety fuses per output (4× F 3.15AH)
- Intelligent manual / automatic mode switching
- Local intermediate position setting per channel
- Upgradable for RTS or EnOcean radio control
- Compatible with animeo Solo, IB+, KNX & LON

TECHNICAL CHARACTERISTICS

SPECIFICATION	WM Ref. 1860049	DRM Ref. 1860081
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
Max. Motor Current	4 × 3.0A, cos φ = 0.95	4 × 3.0A, cos φ = 0.95
Group Control Input Voltage	SELV, 16V DC	SELV, 16V DC
Local Push Button Voltage	SELV, 16V DC	SELV, 16V DC
Safety Fuses	4 × F 3.15 AH	4 × F 3.15 AH
Terminals	Spring connectors	Spring connectors
Max. Running Time / Output	5 minutes (relay contact)	5 minutes (relay contact)
Operating Temperature	0°C to 45°C	0°C to 45°C
Relative Humidity	Max. 85%	Max. 85%
Housing Material	PC-ABS	PC-ABS
Dimensions (W × H × D)	180 × 255 × 61 mm	90 × 210 × 61 mm (12 HP)
Weight	710 g	370 g
Degree of Protection	IP 20	IP 20
Protection Class	Class I	Class I
Conformity	www.somfy.com/ce	www.somfy.com/ce

PRODUCT VARIANTS

1860049

4AC Motor Controller WM

Wall-Mounted

180 × 255 × 61 mm · 710g

1860081

4AC Motor Controller DRM

Din-Rail Mounted

90 × 210 × 61 mm · 370g

BMS INTEGRATION

The 4AC Motor Controller integrates directly with Building Management Systems (BMS) via dry contact relay inputs. Each motor channel accepts two Dry Contact (0V) relay signals (Up and Down) with a momentary latch of 0.5–1.5 seconds. Stop commands are issued by latching both Up and Down relays simultaneously. Group control is achieved via the master IB+ bus inputs, enabling centralised control of multiple motor channels from a single BMS output. If motors only momentarily move on a contact pulse, the unit is operating in Venetian mode — refer to the installation manual for mode configuration.

IMPORTANT: Motor end-limits must be configured on each venetian blind motor before connecting to the 4AC controller.

The 4AC Motor Controller cannot set motor end-limits. Refer to individual motor documentation for limit configuration.

For full commissioning and programming guide, refer to the Somfy animeo IB+ installation documentation.

SYSTEM OVERVIEW

The 4AC Motor Controller is a hard-wired motor controller designed for integration into Home Automation Systems (HAS) and Building Management Systems (BMS) via the animeo IB+ building control network. It controls up to four independent 230V AC external venetian blind motors, providing both individual and group control. The controller supports local manual override via push buttons at each motor, while the IB+ bus enables centralised scheduling, group control, and automated solar protection responses.

IB+ SYSTEM ARCHITECTURE



WIRING SPECIFICATIONS

CONNECTION	CABLE SIZE	TWISTED PAIRS	MAX. DISTANCE
Motors	4×0.75mm ² min / 4×2.5mm ² max	—	—
Switches	3×0.28mm ² min / 3×2.5mm ² max	Recommended	100m / 330ft
IB+ Bus	4×0.28mm ² min / 4×1.5mm ² max	Recommended	1000m / 3300ft
220–230V AC Mains	3×1.5mm ² min / 3×2.5mm ² max	—	—

CLASSIFICATION

The 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

INSTALLATION & FUNCTIONAL ADVANTAGES

- Quick commissioning with animeo IB+ Building Controller
- Spring connectors with cable tie tension relief
- Status LED feedback per output
- Easily accessible safety fuses per output
- All motors managed independently from each other
- Intelligent switching between manual and automatic modes
- Local intermediate position setting per channel
- Upgradable for Somfy RTS or EnOcean radio control

CABLE REQUIREMENTS

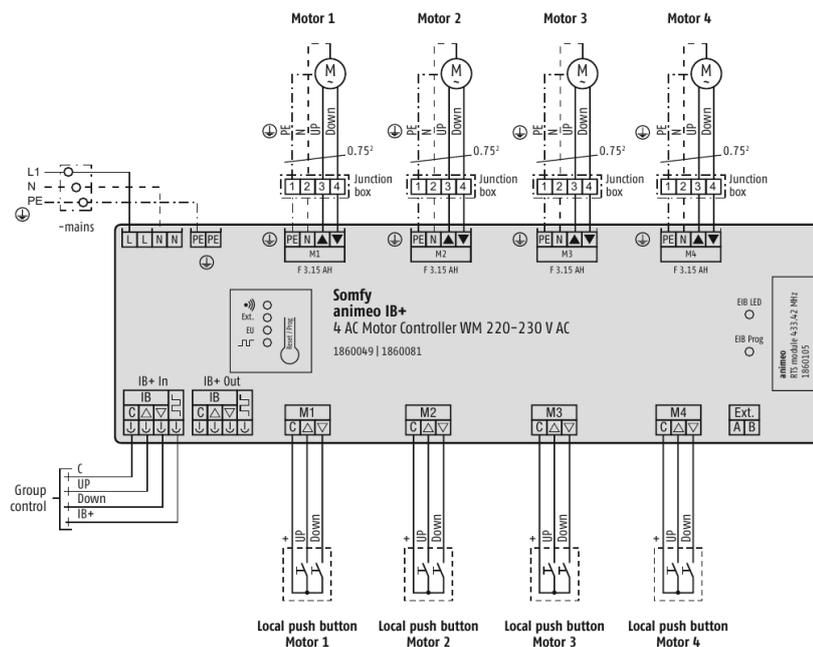
Motor Supply Cable	4-core · Min. 0.75mm ² · Active, Neutral, Earth, Control
IB+ Bus Cable	Twisted pair · Min. 0.28mm ² · Max. 1000m run
Local Push Button Cable	Twisted pair · Min. 0.28mm ² · Max. 100m run
Mains Supply	Active, Neutral, Earth · 230V AC · Min. 1.5mm ²

SYSTEM WIRING DIAGRAM

The following diagram shows the complete wiring arrangement for the 4AC Motor Controller WM/DRM 220–230V AC. The controller connects to mains supply (L1, N, PE), up to four 230V AC venetian blind motors via junction boxes, local push buttons for each motor, and the animeo IB+ bus for group control and building automation integration.

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

SOLUTIONS FOR BUILDING CONTROL

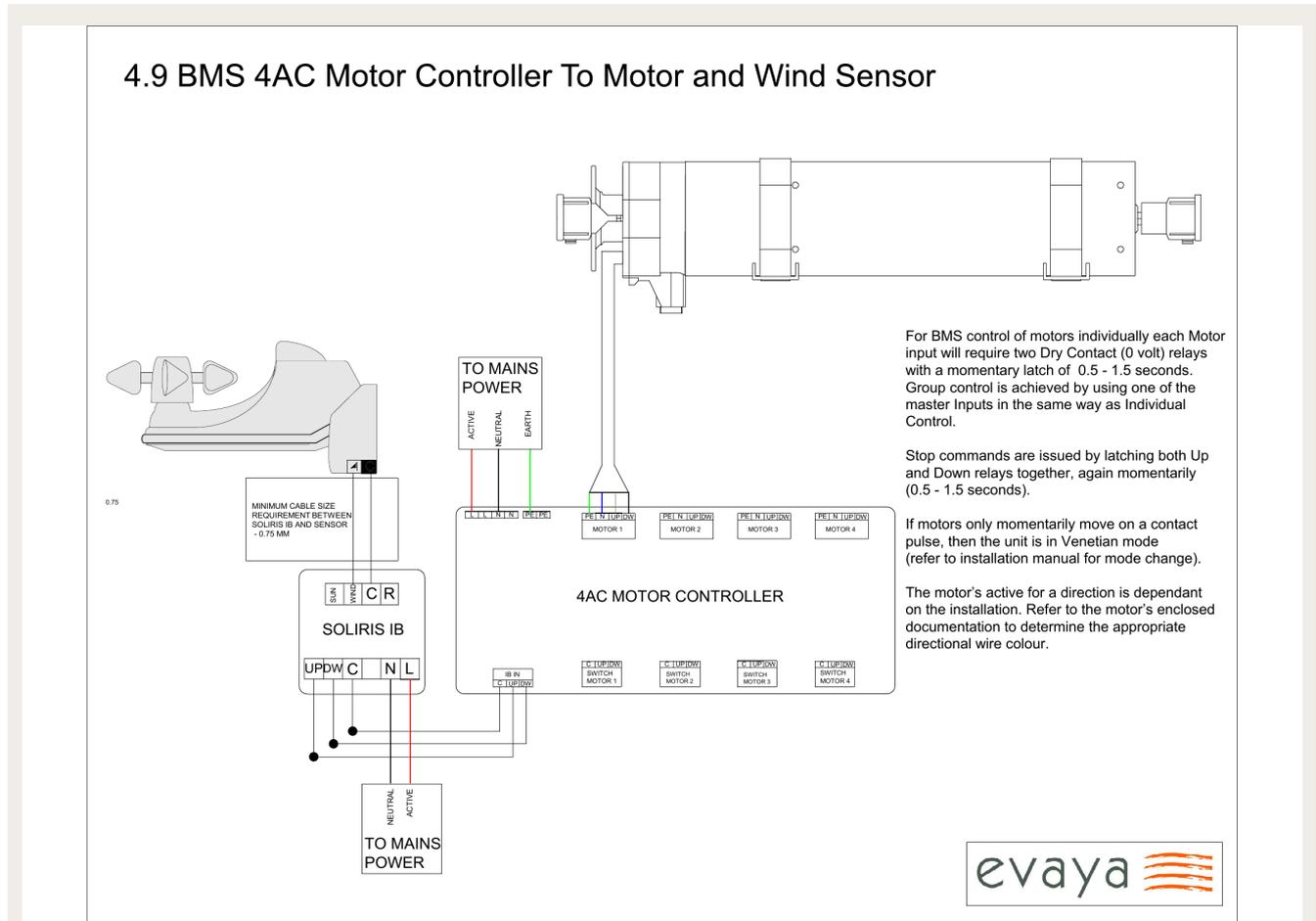


WIRING NOTES

Mains Supply	L1 (Active), N (Neutral), PE (Earth) · 220–230V AC / 50–60Hz
Motor Outputs	Each motor: PE, N, UP (raise), DOWN (lower) via junction box · 0.75mm ² min.
Fusing	4 × F 3.15 AH fuses — one per motor output · Easily accessible
IB+ Bus	IB+ In and IB+ Out connections for daisy-chain topology
Group Control	C (Common), UP, DOWN, IB+ terminals for group-level control input
Local Push Buttons	C (Common), UP, DOWN per motor · SELV 16V DC · Max. 100m
Ext. A/B	External connection port for additional animeo IB+ accessories
EIB Interface	EIB LED and EIB Prog indicators for KNX/EIB integration (optional)

BMS WIRING — 4AC MOTOR CONTROLLER TO MOTOR AND WIND SENSOR

The following diagram shows the BMS wiring configuration for the 4AC Motor Controller, including connection to the SOLIRIS IB wind sensor. This arrangement enables automated wind protection for external venetian blinds, with the SOLIRIS IB providing automatic retraction when wind speed exceeds the configured threshold.



BMS CONTROL NOTES

Individual Motor Control	Each motor input requires two Dry Contact (0V) relays · Momentary latch 0.5–1.5 seconds
Group Control	Use one of the master IB+ Inputs in the same way as Individual Control
Stop Command	Latch both Up and Down relays simultaneously · Momentary 0.5–1.5 seconds
Venetian Mode	If motors only momentarily move on contact pulse — unit is in Venetian mode
Motor Direction	Active direction depends on installation · Refer to motor documentation for wire colours
Wind Sensor Cable	Minimum cable size between SOLIRIS IB and sensor: 0.75mm ²

PRE-INSTALLATION CHECKLIST

- Confirm motor running direction before connecting to controller outputs
- Configure motor end-limits on each venetian blind motor prior to connection
- Verify mains supply is 220–230V AC / 50–60Hz before energising
- Confirm IB+ bus cable is twisted-pair and within 1000m maximum run
- Test each motor output independently via local push buttons before commissioning IB+
- Pair SOLIRIS IB wind sensor to the correct motor group if wind protection is required
- Confirm BMS dry contact relay timing is set to 0.5–1.5 seconds momentary latch

SOMFY TECHNICAL SUPPORT

Full technical support for the 4AC Motor Controller is provided by Somfy Australia. Contact Somfy at somfy.com.au or call 1300 766 394 for product and integration support.