somfy®

So that everyone can freely control the role of natural light in their living and working environment.

Whatever the latitude or season, **controlling light and heat while preserving natural resources is an essential human need.** This is the same at home, at work, at school, at the hospital and wherever buildings accommodate human activities.

That is why we create the means to control the solar protection of buildings, ensuring the well-being of those who live there paying constant attention to energy performance.

We support the needs of facilitated management of buildings **by providing connected solutions, accessible on-site or remotely.**

We allow everyone to determine their own thermal and visual comfort: a simple movement is enough to control natural light, modulate heat and ensure privacy.

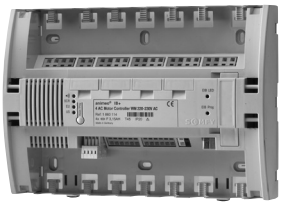
By creating solutions in the service of the users, **we contribute to improving efficiency at work as well as the quality of care and learning, thereby contributing to better health.**

In association with those who design, build and manage buildings, and together with our solar protection partners, **we provide open and scalable solutions that meet all energy performance and comfort needs.**

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

animeo Solo | **animeo IB+** | animeo KNX | animeo LON

SOLUTIONS FOR BUILDING CONTROL



Ref. 1860049 (WM)

Ref. 1860081 (DRM)

Motor controller for roller shutters, screens, exterior Venetian blinds and windows openers.

To individually control up to four 230 V AC motors via local push buttons or in groups with IB+ Controlling Technology.

Available in two versions: wall-mounted (WM) and Din-rail installation (DRM).

Installation advantages

> Easy and quick commissioning in combination with the animeo IB+ Building Controller.

> Spring connectors and tension relief with cable ties for safer and quicker installation.

> Status feedback through LEDs.

> Easily accessible safety fuses per output.

Functional advantages

> All windows can be managed independently from each other.

> Intelligent switching between manual and automatic operation to guarantee excellent user-friendliness and energy savings.

> Local setting of an intermediate position and of user ergonomics.

> Upgradable at any time for local controlling through radio Somfy RTS or EnOcean technology.

Wiring

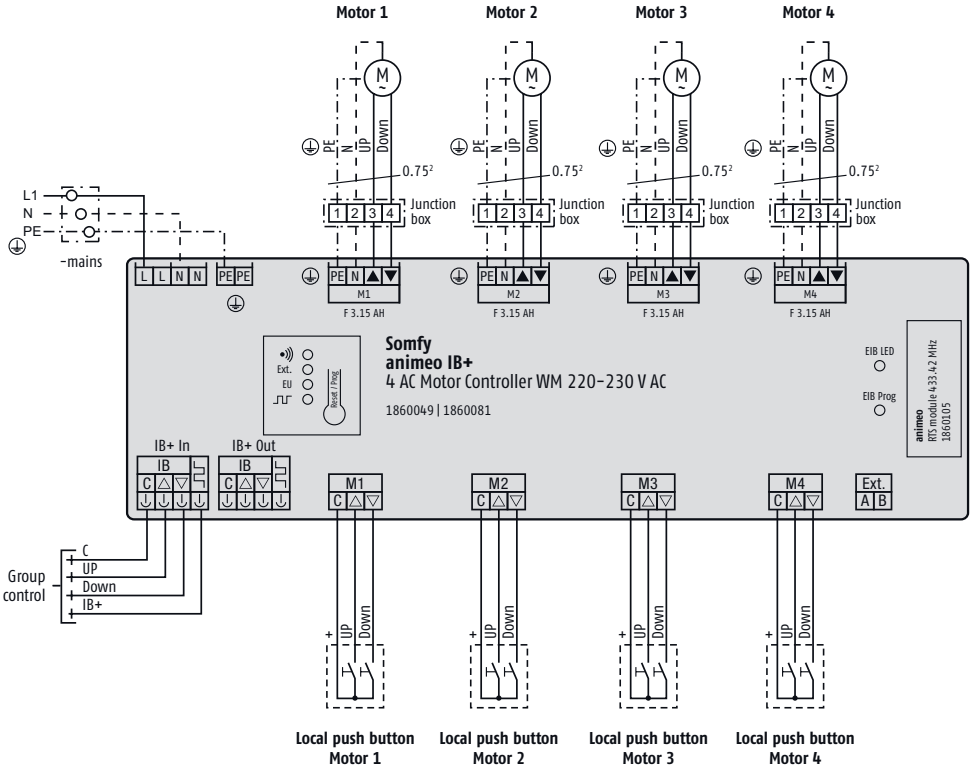
Connection	Cables	Twisted pairs	Max. distance
Motors	Min.: 4 x 0.75 mm²/18 AWG Max.: 4 x 2.5 mm²/13 AWG	-	
Switches	Min.: 3 x 0.28 mm²/22 AWG Max.: 3 x 2.5 mm²/13 AWG	Recommended	100 m/ 330 ft
IB+ bus	Min.: 4 x 0.28 mm²/22 AWG Max.: 4 x 1.5 mm²/15 AWG	Recommended	1000 m/ 3300 ft
220-230 V AC	Min.: 3 x 1.5 mm²/15 AWG Max.: 3 x 2.5 mm²/13 AWG	-	

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_{AC} = 230 V AC I_{AC} = 0.03 A (EN 55022 Class B emission)

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



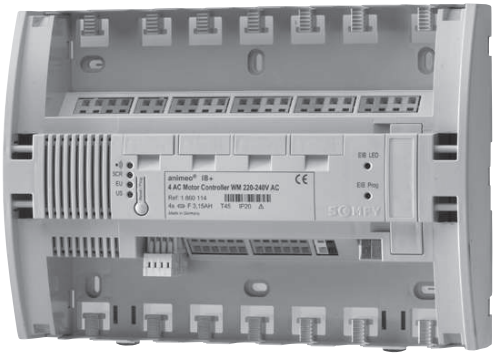
CHARACTERISTICS

	WM Ref. 1860049	DRM Ref. 1860081
Supply voltage	220-230 V AC / 50/60 Hz	220-230 V AC / 50/60 Hz
Stand-by current (IEC 62301)	6 mA@230 V AC	6 mA@230 V AC
Stand-by power (IEC 62301)	< 0,5 W@230 V AC	< 0,5 W@230 V AC
Max. motor current consumption	4 x 3.0 A, cos φ = 0.95	4 x 3.0 A, cos φ = 0.95
Supply voltage of group control input	SELV, 16 V DC =	SELV, 16 V DC =
Supply voltage of local push buttons	SELV, 16 V DC =	SELV, 16 V DC =
Fuse for all outputs	4 x F 3.15 AH	4 x F 3.15 AH
Terminals	Spring connectors	Spring connectors
Running time per output (relay contact)	Max. 5 minutes	Max. 5 minutes
Operating temperature	0 °C to 45 °C	0 °C to 45 °C
Relative humidity	Max. 85 %	Max. 85 %
Material of housing	PC-ABS	PC-ABS
Housing dimensions (w x h x d)	180 x 255 x 61 mm	90 x 210 x 61 mm (12 HP)
Weight	710 g	370 g
Degree of protection	IP 20	IP 20
Protection class	I	I
Conformity	www.somfy.com/ce	www.somfy.com/ce

20200930

A

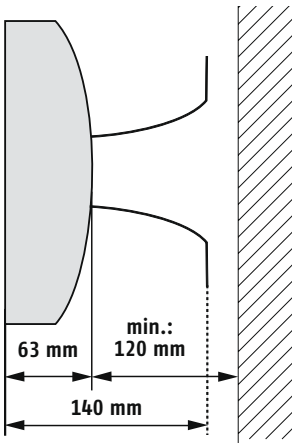
[1]



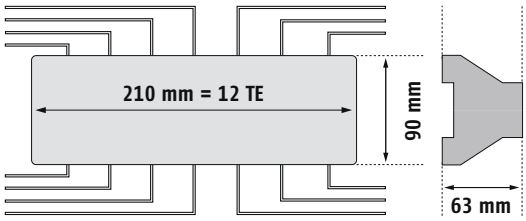
[2]

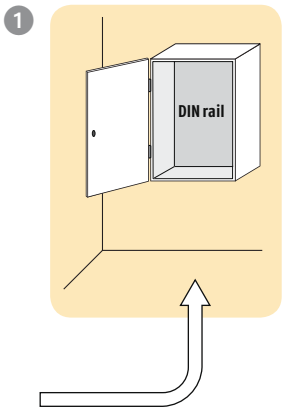
B

[1]

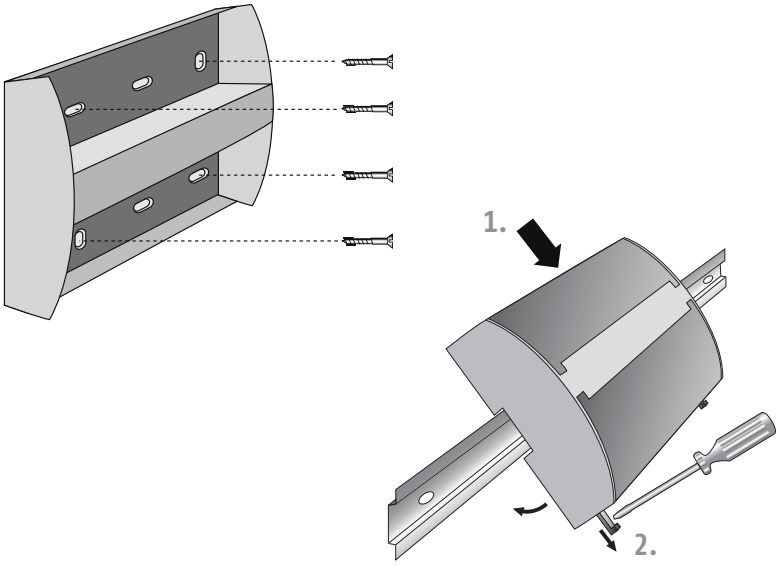

63 mm
min.:
120 mm
140 mm

[2]

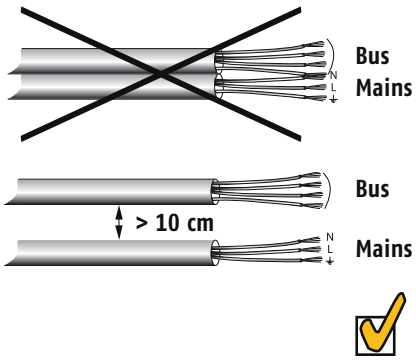

210 mm = 12 TE
90 mm
63 mm


1
DIN rail

[3]

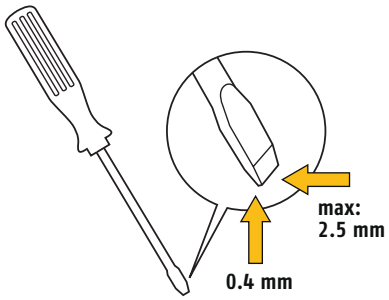

1.
2.

[4]

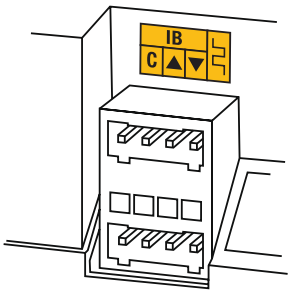

Bus
Mains
N
L
Bus
> 10 cm
Mains
N
L

C

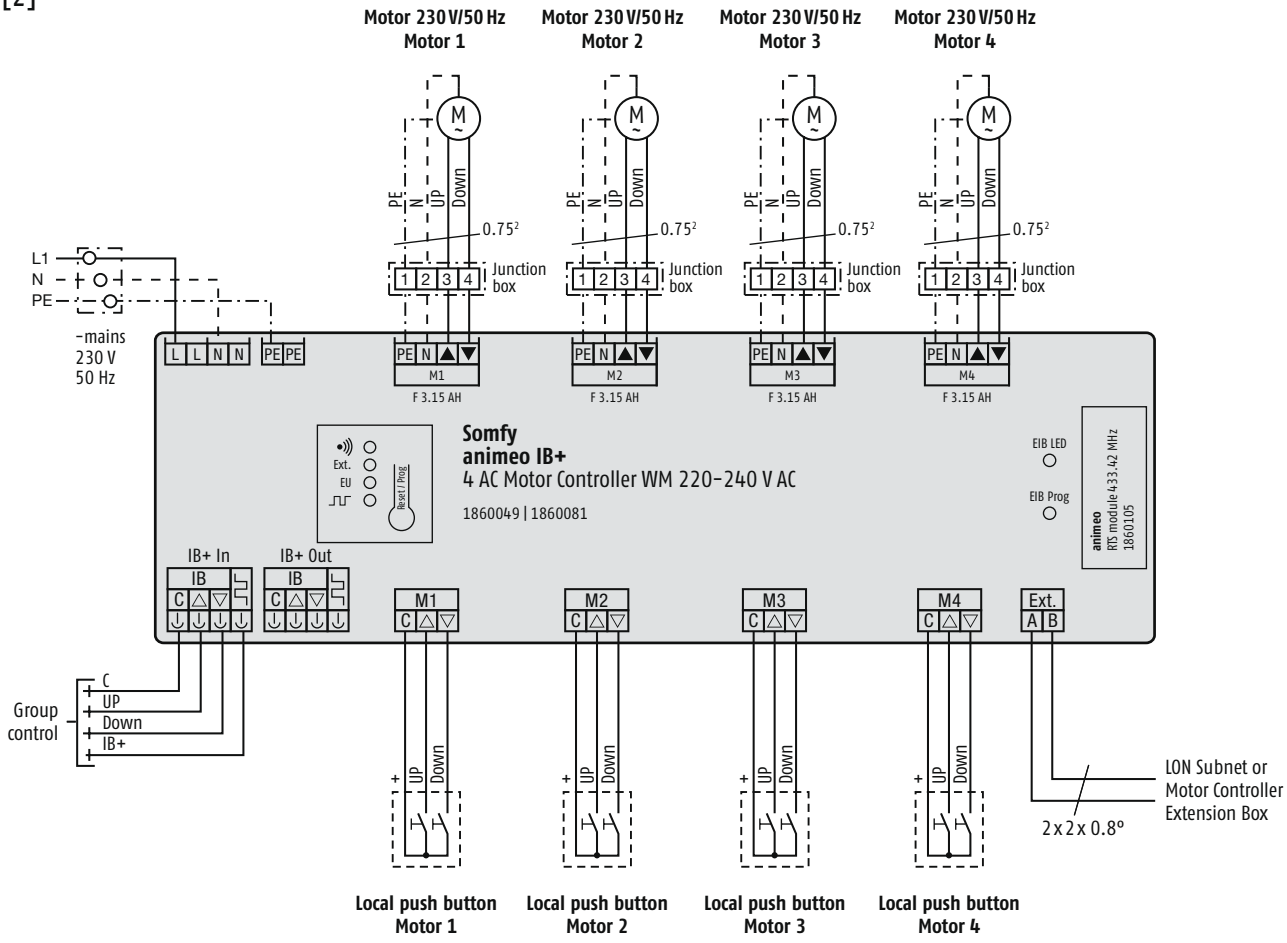
[1]


max:
2.5 mm
0.4 mm

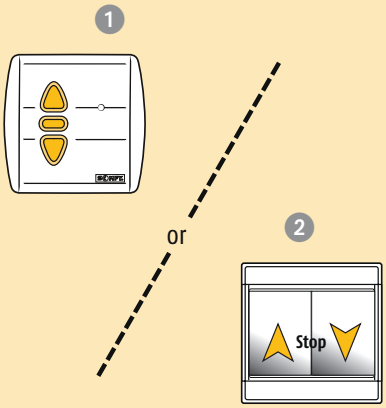
[3]


IB
C

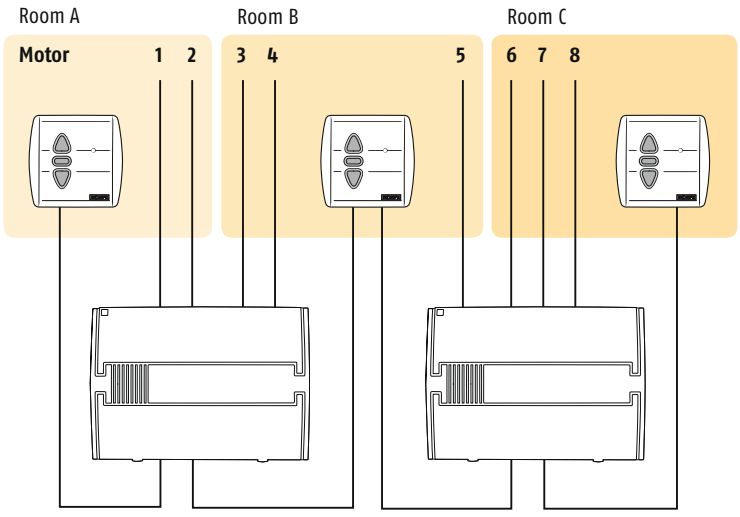
[2]


Motor 230 V/50 Hz
Motor 1
Motor 230 V/50 Hz
Motor 2
Motor 230 V/50 Hz
Motor 3
Motor 230 V/50 Hz
Motor 4
PE
N
UP
Down
0.75²
Junction box
1 2 3 4
L1
N
PE
mains
230 V
50 Hz
L L N N
PE PE
PE N
M1
M2
M3
M4
F 3.15 AH
Somfy
animeo IB+
4 AC Motor Controller WM 220-240 V AC
1860049 | 1860081
Ext.
EU
Reset / Prog
EIB LED
EIB Prog
animeo
RTS module 433.42 MHz
1860105
IB+ In
IB+ Out
IB
C
M1
M2
M3
M4
Ext.
A B
Group control
C
UP
Down
IB+
LON Subnet or
Motor Controller
Extension Box
2 x 2 x 0.8°
Local push button
Motor 1
Local push button
Motor 2
Local push button
Motor 3
Local push button
Motor 4

[4]

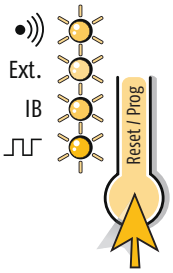

1
or
2
Stop

[5]

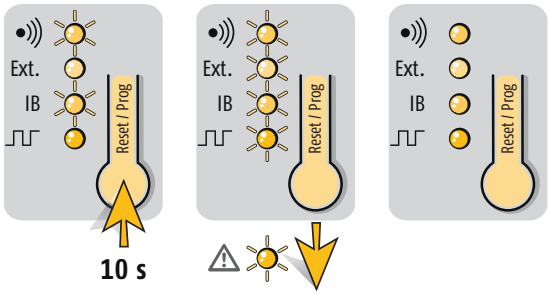

Room A
Room B
Room C
Motor
1 2
3 4
5
6 7 8

D

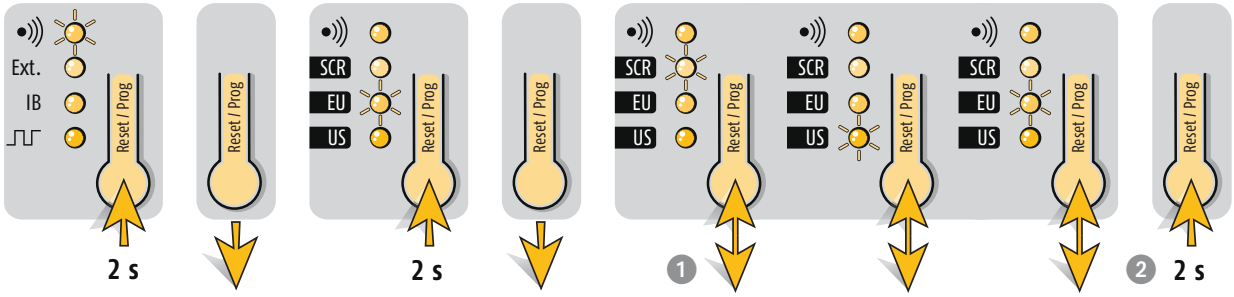
[1]


Ext.
IB
Reset / Prog

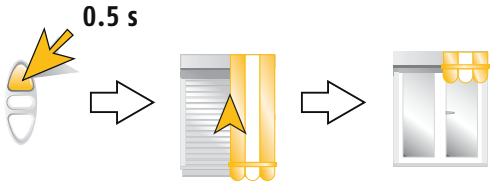
[3]

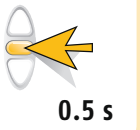

Ext.
IB
Reset / Prog
10 s

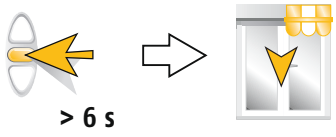
[2]

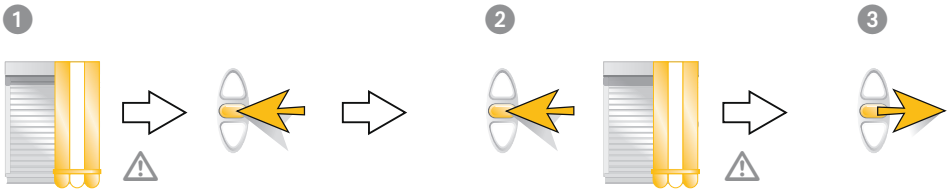

Ext.
IB
SCR
EU
US
Reset / Prog
2 s
2 s
1
2
2 s

[4]

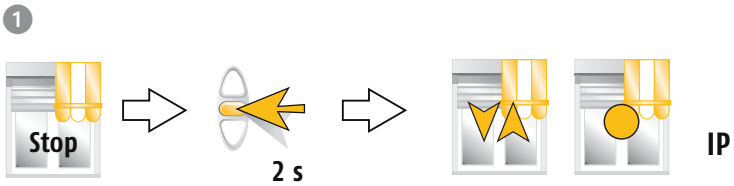

0.5 s

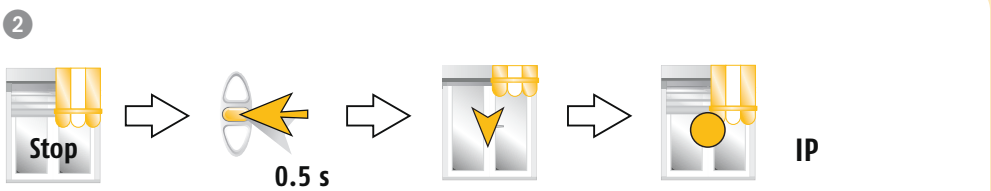

0.5 s


> 6 s


1
2
3

[5]

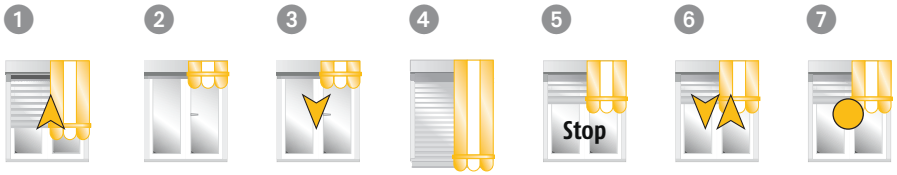

1
Stop
2 s
IP


2
Stop
0.5 s
IP

[6]


1
2

[7]


1
2
3
4
5
6
7
Stop

FR

A IMAGES

[1] IB+ 4 AC Motor Controller WM 220-240 V AC, version mural

[2] IB+ 4 AC Motor Controller DRM 220-240 V AC, version rail DIN

B INSTALLATION

[1] Choisir le meilleur emplacement: la place doit être suffisante

[2] Place nécessaire pour la version rail DIN
1. Installation dans une armoire électrique

[3] Installation du IB+ 4 AC Motor Controller WM or DRM

[4] Gardez une distance minimale

C CÂBLAGE

[1] Outil pour tous les borniers

[2] Schéma de câblage

[3] Vérifiez la direction du mouvement des produits porteurs (commandes de groupe et commandes locales):
MONTÉE: le produit porteur monte (C +▲)
ARRÊT: le produit porteur s'arrête (C +▼+▲)
DESCENTE: le produit porteur descend (C + ▼)

[4] Boutons poussoirs
1. Inteo Centralis IB, Ref. 1810138
2. Double bouton sans verrouillage

[5] Commande locale
Un seul boutton peut commander plusieur moteurs de différents Motor Controller.

D CONFIGURATION

[1] **Reset / Prog bouton**
Ce bouton permet d'accéder à la configuration basique de l'automatisme.

[2] **Sélection de l'ergonomie des boutons poussoirs**
Ergonomie des boutons poussoirs et type de produits porteurs à sélectionner:
• Mode screen (store rouleaux, SCR)
• Store vénitien et mode „Europe" (mode par défaut)
• Store vénitien et mode „US"
1. Pour changer de mode, donner une impulsion sur le bouton Reset / Prog. Répéter l'opération jusqu'à avoir la bonne LED allumée.
2. Sauvegarde et sortie

[3] **Retour configuration usine**

[4] **Acquisition du temps de fonctionnement et de rotation/course**
1. Appuyer immédiatement quand la butée basse est atteinte
2. Maintenir stop appuyé pendant toute la durée de rotation
3. Relacher immédiatement à la position désirée

[5] **Apprenez et rappelez le position intermédiaire (IP)**
1. Enregistrer 2. Rappel

[6] Symboles: les actions
1. Montée 2. Arrêt

[7] Symboles: état du produit porteur
1. Montée
2. Position haute
3. Descente
4. Position basse
5. Arrêt à la position souhaitée
6. Bref mouvement (bonne réception)
7. Position intermédiaire (IP)

GB

A PICTURES

[1] IB+ 4 AC Motor Controller WM 220-240 V AC, wall-mounted version

[2] IB+ 4 AC Motor Controller DRM 220-240 V AC, DIN-rail version

B MOUNTING

[1] Choose the optimal location: sufficient surface area

[2] Needed space for the DIN-rail version
1. Mounted in an electrical cabinet

[3] Mounting of the IB+ 4 AC Motor Controller WM or DRM

[4] Keep to minimum distance

C WIRING

[1] Tool for all terminals

[2] Wiring diagram

[3] Check the correct running direction of the endproducts (group and local control inputs).
UP: end product moves upward (C +▲)
STOP: end product stops (C +▼+▲)
DOWN: end product moves downward (C +▼)

[4] Possible switches
1. Inteo Centralis IB, Ref. 1810138
2. Double push button unlocked

[5] Local control
One local push-button can control motors on several Motor Controller.

D CONFIGURATION

[1] **Reset / Prog button**
With this button, you can access the basic configuration of the Motor Controller.

[2] **Selection of switch ergonomic**
Local push button ergonomics and the type of end products to be preselected:
• Screen mode (SCR)
• Venetian blind, European mode (default mode)
• Venetian blind, US mode
1. To toggle between modes, press shortly the Reset / Prog button. Repeat until the LED, according to the desired configuration, lights up.
2. Save and exit

[3] **Factory RESET**

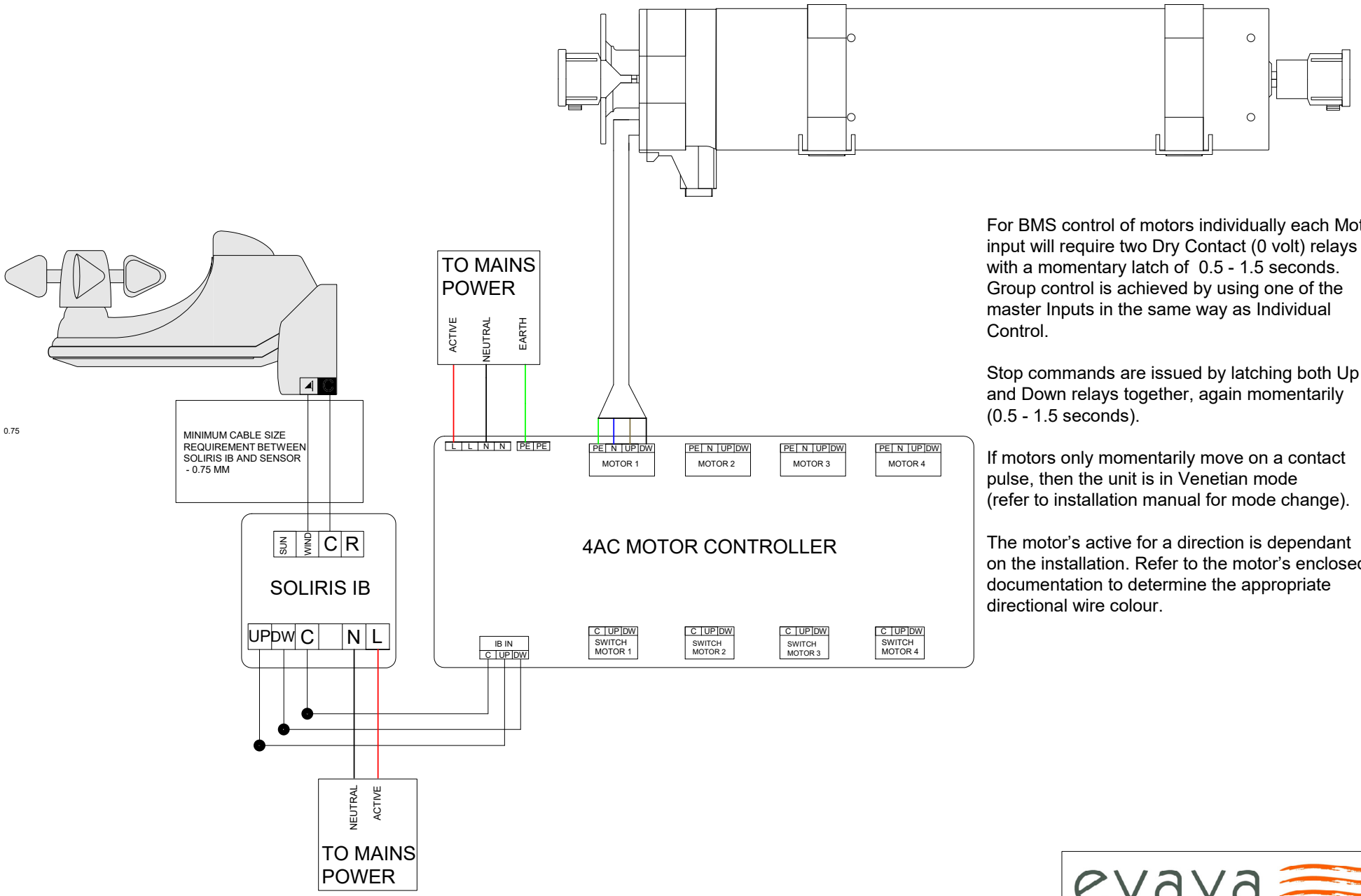
[4] **Learn running and tilting times/length**
1. Press immediately when lower end limit is reached
2. Maintain stop for duration of tilting
3. Release immediatly after complete turn

[5] **Learn and recall intermediate position (IP)**
1. Recording
2. Recalling

[6] Symbols: actions
1. Up
2. Stop

[7] Symbols: end product status
1. Up
2. High position
3. Down
4. Low position
5. Stop at the required position
6. Short up and down movement
7. Intermediate position (IP)

4.9 BMS 4AC Motor Controller To Motor and Wind Sensor



For BMS control of motors individually each Motor input will require two Dry Contact (0 volt) relays with a momentary latch of 0.5 - 1.5 seconds. Group control is achieved by using one of the master Inputs in the same way as Individual Control.

Stop commands are issued by latching both Up and Down relays together, again momentarily (0.5 - 1.5 seconds).

If motors only momentarily move on a contact pulse, then the unit is in Venetian mode (refer to installation manual for mode change).

The motor's active for a direction is dependant on the installation. Refer to the motor's enclosed documentation to determine the appropriate directional wire colour.

evaya

About Somfy

Somfy's leading smart management solutions for homes and buildings have been improving people's daily lives for over 50 years. Developed with comfort, ease of use, security and sustainability in mind, our innovations automate and connect rolling shutters, curtains and blinds, gates and garage doors, lighting and heating, alarms systems and more. We are committed to creating useful solutions that are accessible to all, designed for today and beyond.

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www.somfy.com/projects

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