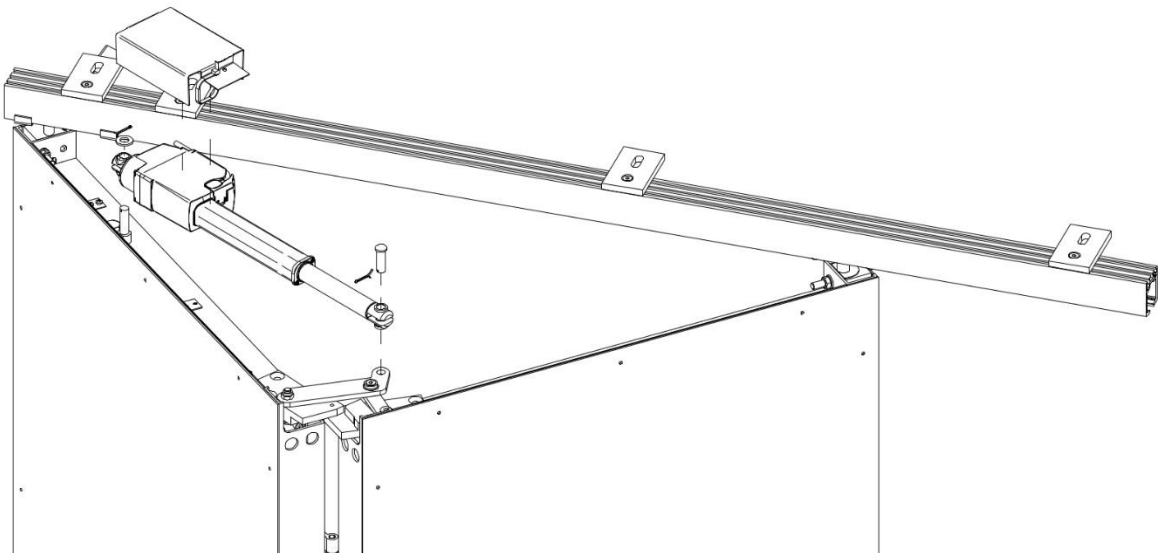




***Building Elegance***

## FOLDING SHUTTERS



### Motorization

Product group : Folding Shutters  
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## FOLDING SHUTTERS - IMPRINT

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## FOLDING SHUTTERS – TABLE OF CONTENT

### Folding Shutters

Introduction	0004
Motor specifications	0005
Parts Dimensions CBD6 (200W)	0006
Parts Dimensions CBD6 (300W)	0007

### Assembly Options

V-Parallel	0008
V+V-Parallel	0009
V+V+V-Parallel	0010
V+V+V+V-Parallel	0011
W-Sequential	0012
W+V-Sequential	0013
W+W-Sequential	0014

### Cable Management

Motor cable (Outside Building)	0015
Connection motor cable to CBD cable	0016
Cable configurations from and to the CBD6S	0017

## MOTORIZATION - INTRODUCTION

### Building Elegance folding shutter motorization

This document describes the basic information of the Building Elegance folding shutter motorization. The motorization enables the user to move the shutter left and right by means of two push buttons, a remote control or an external open/close switch of own choice.

The motorization for folding shutters consists out of the following parts;

- Motor unit – linear actuator
- Controller (inside the building)
- Cabling and connections

This manual must be read in conjunction with the product manual, the data sheet of the motor and controller for folding shutters. The controllers are configured and delivered by BE per situation. The final adjustments of the shutters can be adjusted on the job by a qualified electrician. For the electrical components a manufacturer's manual is also available on request.

### CE declaration

The motorization described in this document conforms to CE applicable standards.

### Installation requirements

Please note that all electrical components must be installed by qualified personnel only. Wrongful actions may lead to damage or personal injury.

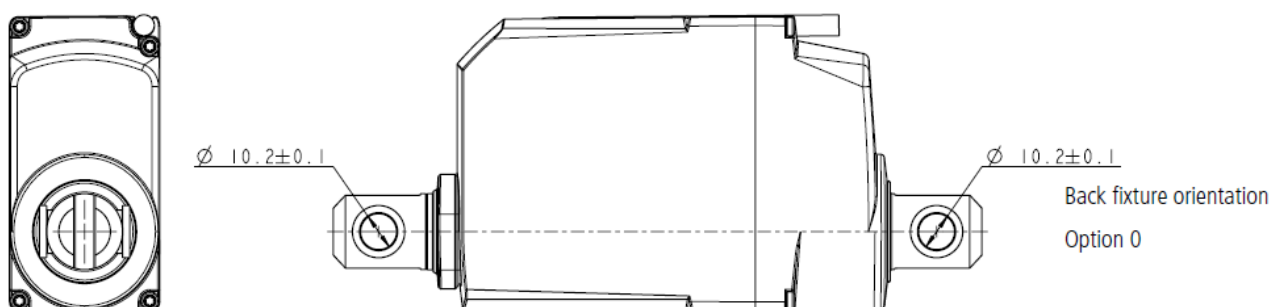
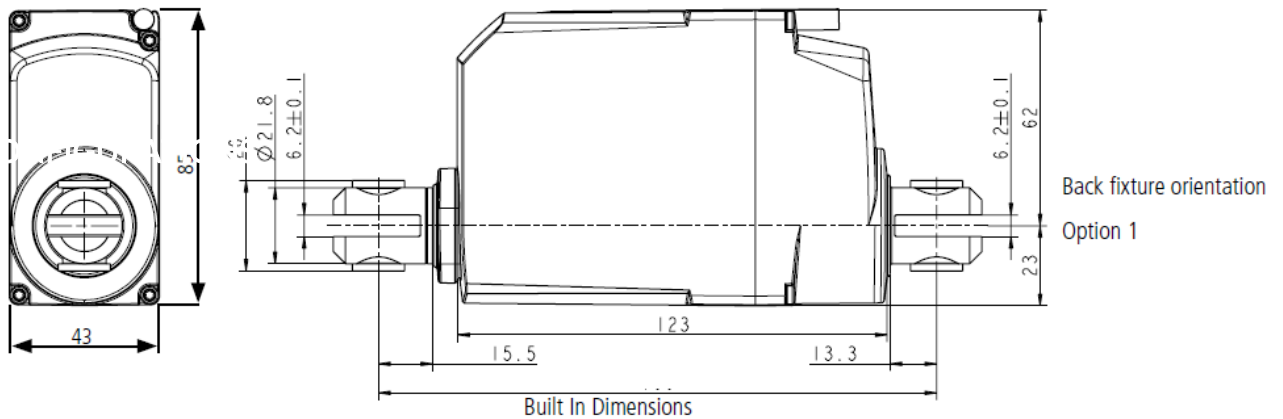
Motor must be protected from direct rain and snow.

## MOTORIZATION – MOTOR SPECIFICATIONS

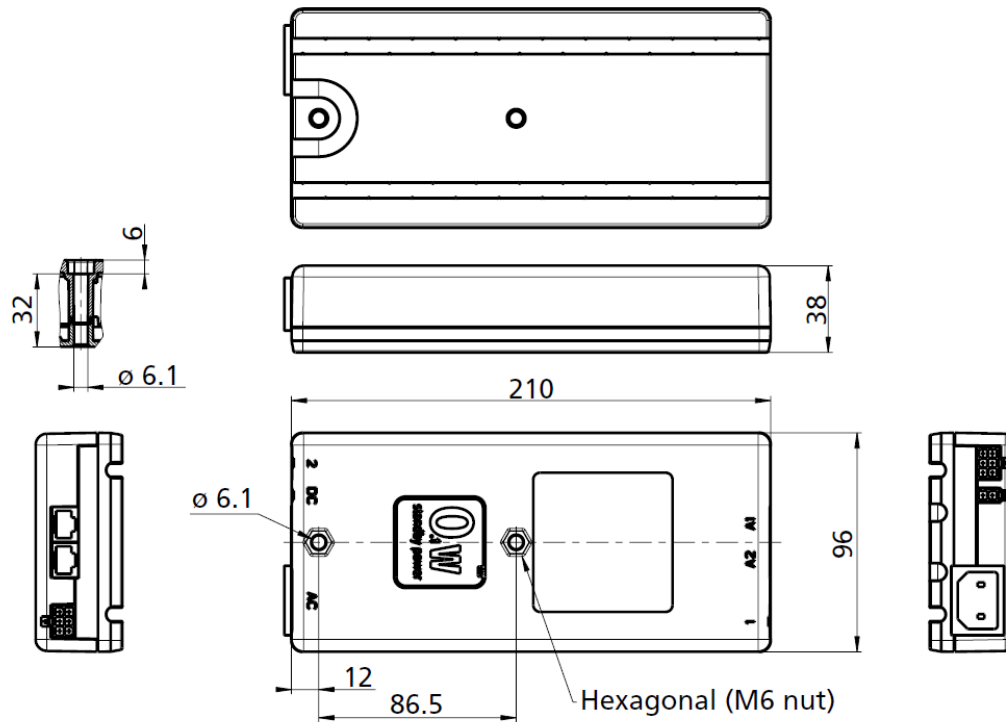
### Motor specifications

#### Features and Options:

- Load in push: 2500N
- Load in pull: 2500N
- Protection class: IPX4 or IPX6
- Motor: 12 V DC, 24 V DC
- Stroke length: 20 - 300 mm
- Built-in dimensions: 110 mm + stroke length
- Built-in electrical end-stop: Yes
- Noise level: Max. 58.5 dB(A) (At nominal voltage and with no load, according to EN ISO 3743-1)
- Mechanical end stop Yes



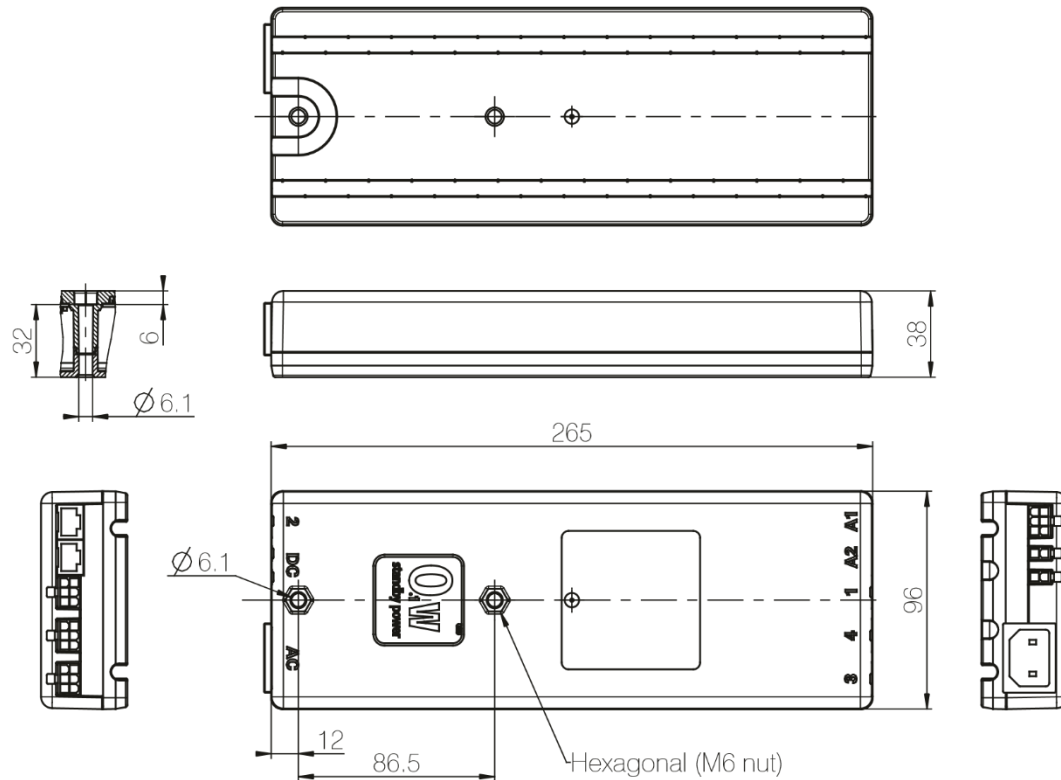
## MOTORIZATION – CONTROLLER CBD6S (200 W) DIMENSIONS



<b>A1/a2</b>	Control ports for connection of one or two Anti-Collision™ dongle A1/A2 are parallel ports
<b>AC</b>	Connection to the mains supply
<b>1 and 2</b>	Sockets for one or two DL/DB

**Important:** The maximum distance between controller and motor is 10m. The connection and cabling should be part of the building design.

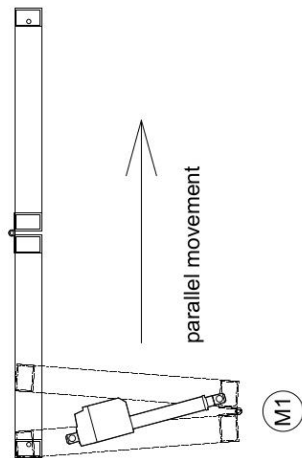
## MOTORIZATION – CONTROLLER CBD6S (300 W) DIMENSIONS










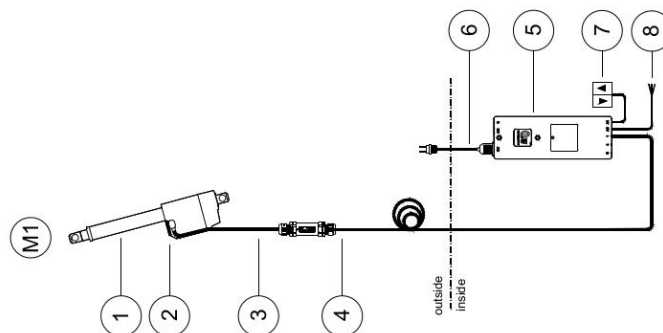
<b>A1/a2</b>	Control ports for connection of one or two Anti-Collision™ dongle A1/A2 are parallel ports
<b>AC</b>	Connection to the mains supply
<b>1 to 4</b>	Sockets for one to four DL/DB

**Important:** The maximum distance between controller and motor is 10m. The connection and cabling should be part of the building design.

## MOTORIZATION – ASSEMBLY OPTIONS – V-PARALLEL - 31 1906 0101

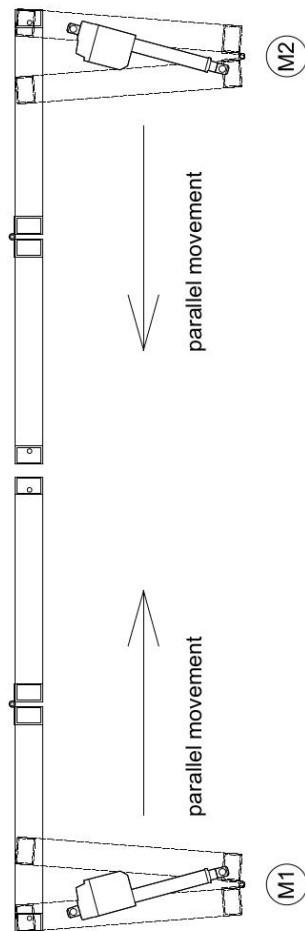









POS		No	BE code	Name
1		1x	31 1103 0101	Linak motor LA23 – 2500N – 12VDC - 200 mm
2		1x	31 1103 0109	Linak cable lock LA23
3		1x	31 1103 0120	Motor cable LA23 420mm motor connector + THB.400.D1L
4		1x	31 1103 0121	CBD cable 9500mm minifit+open end to THB.400.D1L
5		1x	31 1103 0111	CBD6-300W; CH1 = ref 1 / CH2, CH3, CH4 = ref 8
6		1x	31 1103 0118	Linak power cord controller
7		1x	31 1103 0101	Linak service switch single
8		1x	31 1103 0128	Multiparallel cable L= ..... (optional)

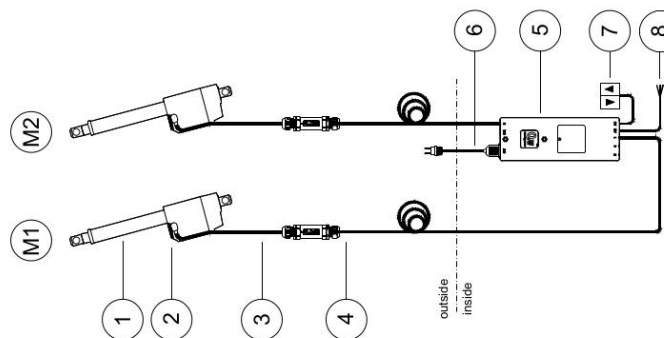




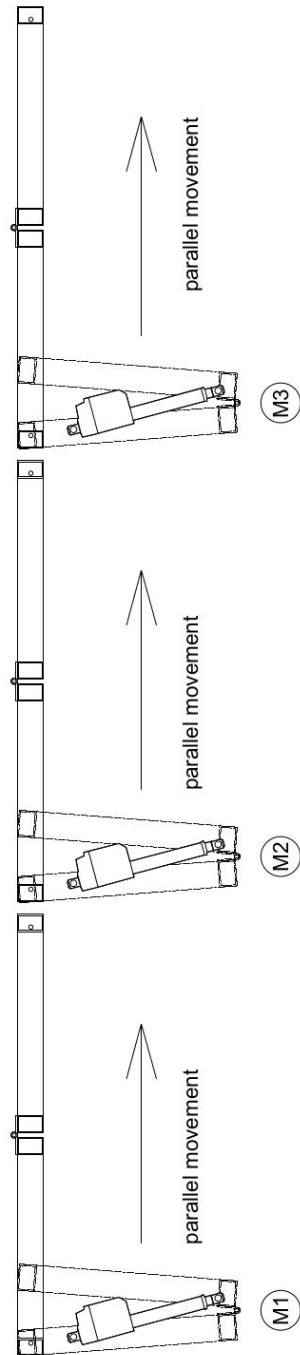
## MOTORIZATION – ASSEMBLY OPTIONS – V+V-PARALLEL - 31 1906 0102










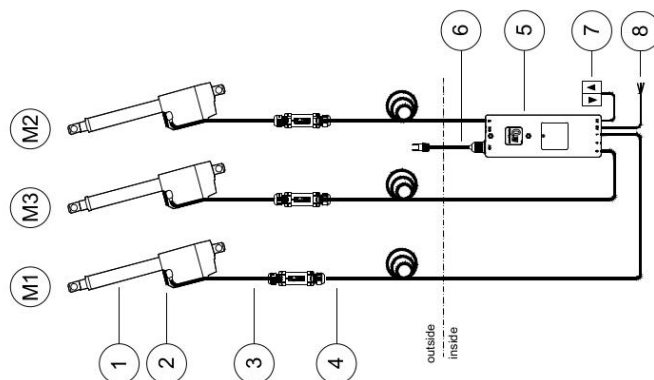
POS		No	BE code	Name
1		2x	31 1103 0101	Linak motor LA23 – 2500N – 12VDC - 200 mm
2		2x	31 1103 0109	Linak cable lock LA23
3		2x	31 1103 0120	Motor cable LA23 420mm motor connector+THB.400.D1L
4		2x	31 1103 0121	CBD cable 9500mm minifit-open end to THB.400.D1L
5		1x	31 1103 0111	CBD6-300W; CH1, CH2 = ref 1 / CH3, CH4 = ref 8
6		1x	31 1103 0118	Linak power cord controller
7		1x	31 1103 0101	Linak service switch single
8		1x	31 1103 0128	Multiparallel cable L= ..... (optional)



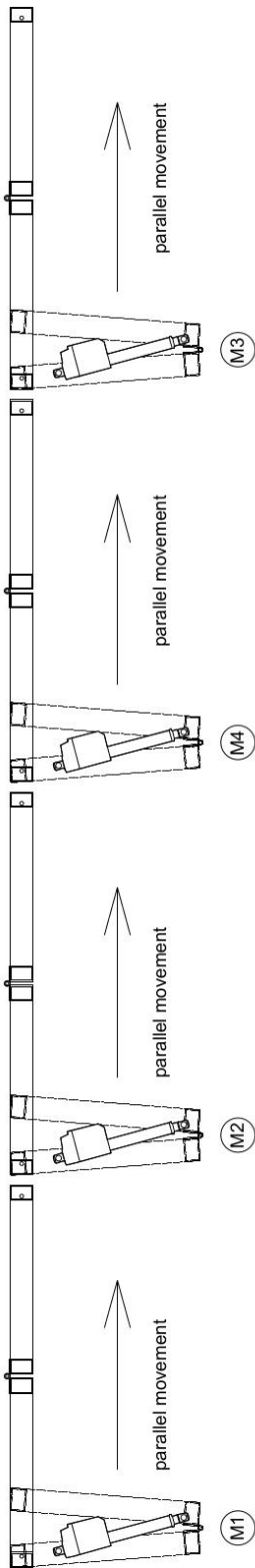
## MOTORIZATION – ASSEMBLY OPTIONS – V+V+V -PARALLEL - 31 1906 0103

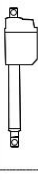








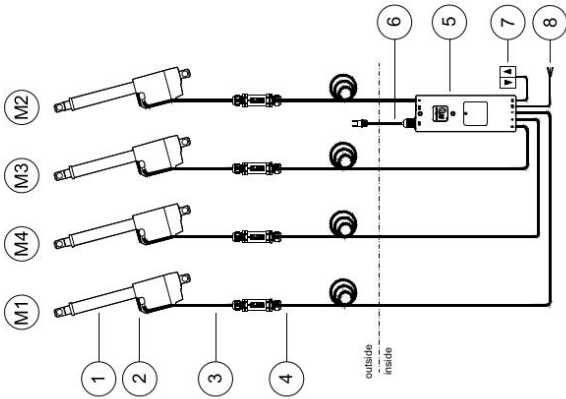
POS		No	BE code	Name
1		3x	31 1103 0101	Linak motor LA23 - 2500N - 12VDC - 200 mm
2		3x	31 1103 0109	Linak cable lock LA23
3		3x	31 1103 0120	Motor cable LA23 420mm motor connector + THB.400.D1L
4		3x	31 1103 0121	CBD cable 9500mm minifit+open end to THB.400.D1L
5		1x	31 1103 0111	CBD6-300W; CH1, CH2, CH3 = ref 1 / CH4 = ref 8
6		1x	31 1103 0118	Linak power cord controller
7		1x	31 1103 0101	Linak service switch single
8		1x	31 1103 0128	Multiparallel cable L= ..... (optional)



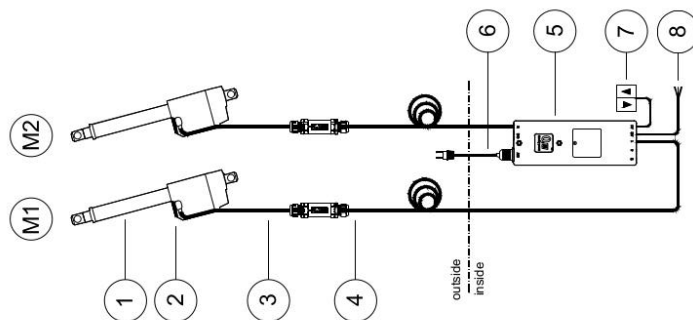
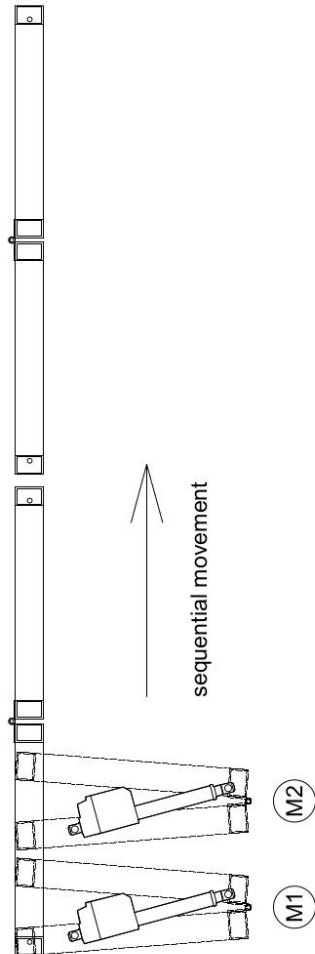
MOTORIZATION – ASSEMBLY OPTIONS – V+V+V+V -PARALLEL- 31 1906 0104










POS		No	BE code	Name
1		4x	31 1103 0101	Linak motor LA23 - 2500N - 12VDC - 200 mm
2		4x	31 1103 0109	Linak cable lock LA23
3		4x	31 1103 0120	Motor cable LA23 420mm motor connector + THB.400.D1L
4		4x	31 1103 0121	CBD cable 9500mm minifit-open end to THB.400.D1L
5		1x	31 1103 0111	CBD6-300W; CH1, CH2, CH3, CH4 = ref 1
6		1x	31 1103 0118	Linak power cord controller
7		1x	31 1103 0101	Linak service switch single
8		1x	31 1103 0128	Multiparallel cable L= ..... (optional)

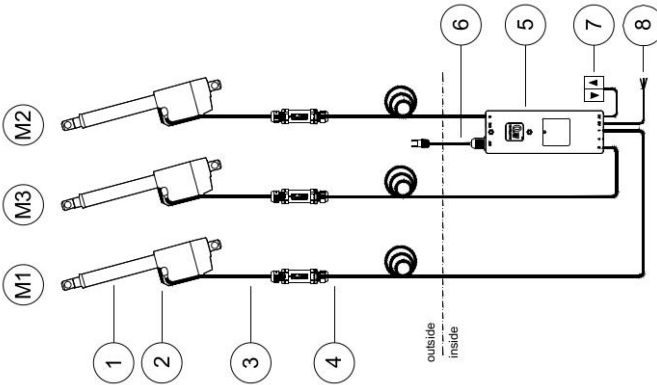
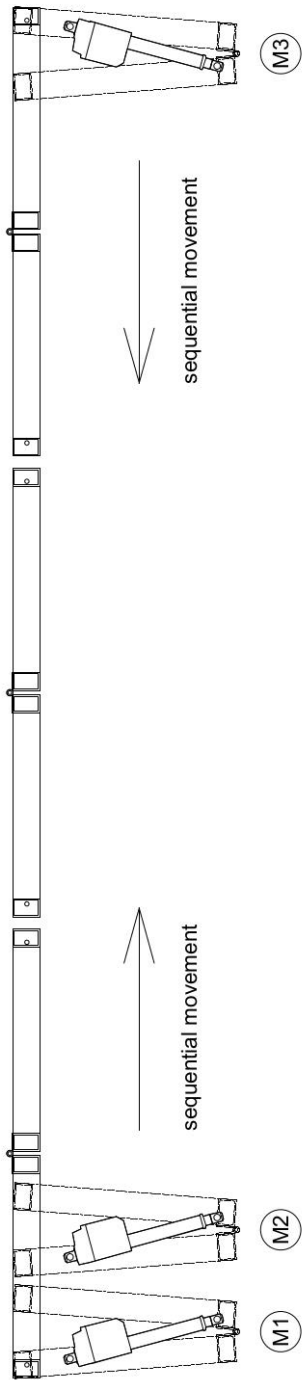









## MOTORIZATION – ASSEMBLY OPTIONS – W-SEQUENTIAL- 31 1906 0112



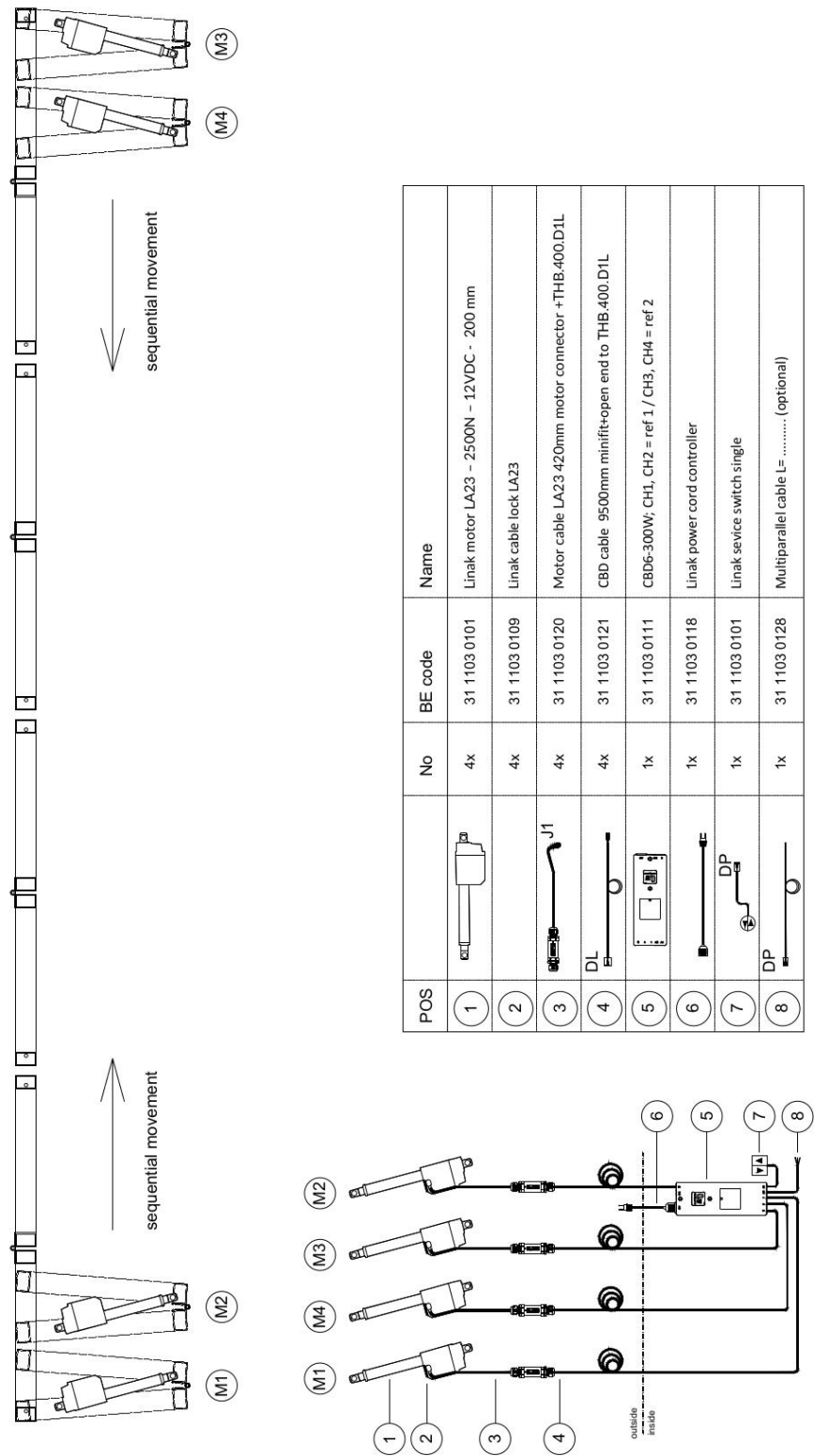
POS		No	BE code	Name
1		2x	31 1103 0101	Linak motor LA23 – 2500N – 12VDC – 200 mm
2		2x	31 1103 0109	Linak cable lock LA23
3		2x	31 1103 0120	Motor cable LA23 420mm motor connector +THB.400.D1L
4		2x	31 1103 0121	CBD cable 9500mm minifit-open end to THB.400.D1L
5		1x	31 1103 0111	CBD6-300W; CH1, CH2 = ref 1 / CH3, CH4 = ref 8
6		1x	31 1103 0118	Linak power cord controller
7		1x	31 1103 0101	Linak service switch single
8		1x	31 1103 0128	Multiparallel cable L= ..... (optional)

MOTORIZATION – ASSEMBLY OPTIONS – W+V-SEQUENTIAL- 31 1906 0113



POS		No	BE code	Name
1		3x	31 1103 0101	Linak motor LA23 - 2500N - 12VDC - 200 mm
2		3x	31 1103 0109	Linak cable lock LA23
3		3x	31 1103 0120	Motor cable LA23 420mm motor connector + THB.400.D1L
4		3x	31 1103 0121	CBD cable 9500mm minifit+open end to THB.400.D1L
5		1x	31 1103 0111	CBD6-300W; CH1, CH2 = ref 1 / CH3 = ref 2 / CH4 = ref 8
6		1x	31 1103 0118	Linak power cord controller
7		1x	31 1103 0101	Linak service switch single
8		1x	31 1103 0128	Multiparallel cable L= ..... (optional)

MOTORIZATION – ASSEMBLY OPTIONS – W+W-SEQUENTIAL- 31 1906 0114



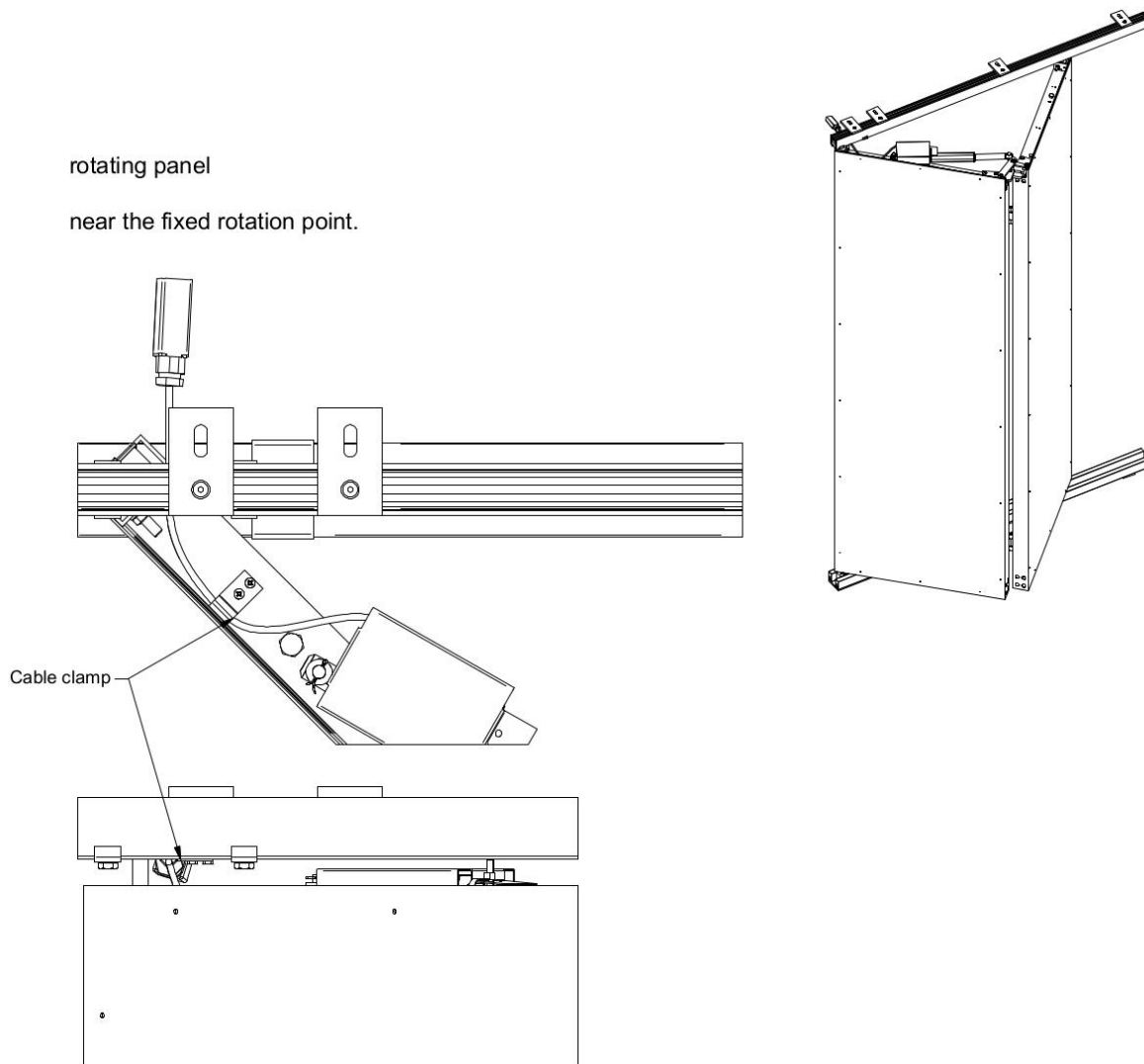
## MOTORIZATION – MOTOR CABLE (OUTSIDE BUILDING)

The motor is located at the top of the rotating panel.

A power cable attached to the motor has two extra fixation points on the system after it can be led to the inside to the motor controller:

1. Rotating cable clamp. On top of the frame.
2. Fixed cable clamp. On top of the rail.

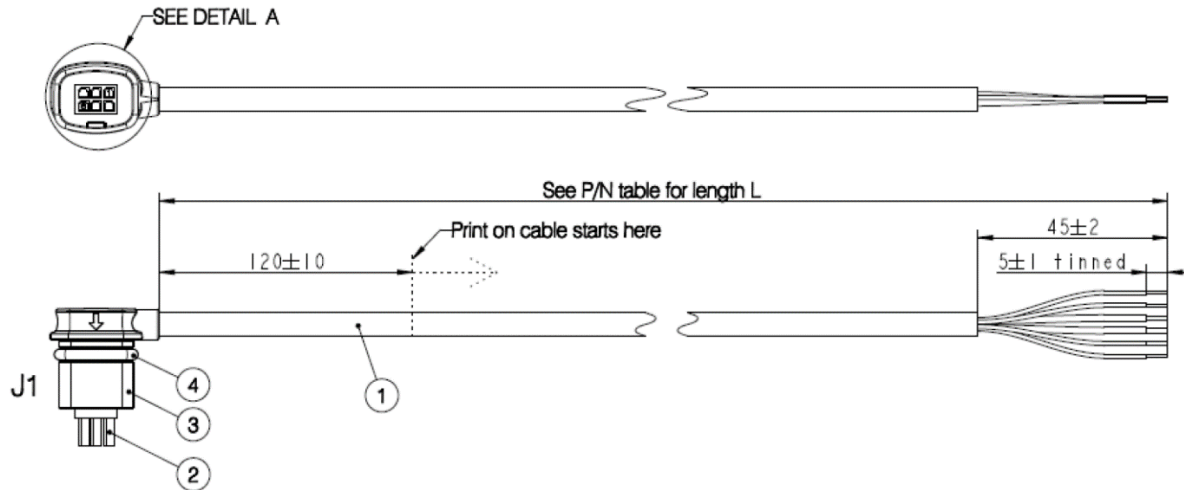
As the motor is a moving part, the cable should be fixed at the clamps in such a way it still allows movement without stretching the cable, and in such a way, the excess cable cannot be trapped inside the moving parts of the shutter.



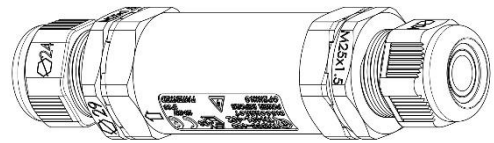


## MOTORIZATION – CONNECTION MOTOR CABLE TO CBD CABLE

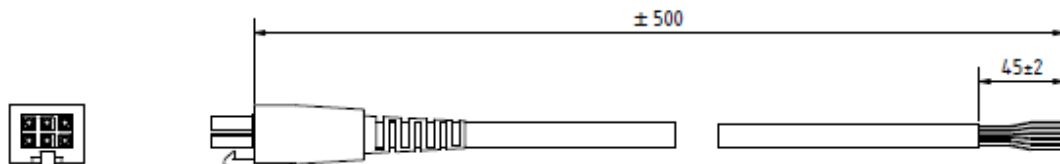
### 3. Motor Cable LA23 – 420mm mini fit + open end



Connection table			
	AWG	Motor cable	CBD cable
1	24	Black	Brown
2	24	Red	Red
3	24	Green	Green
4	24	Yellow	Yellow
5	20	Brown	Brown
6	20	Blue	Black



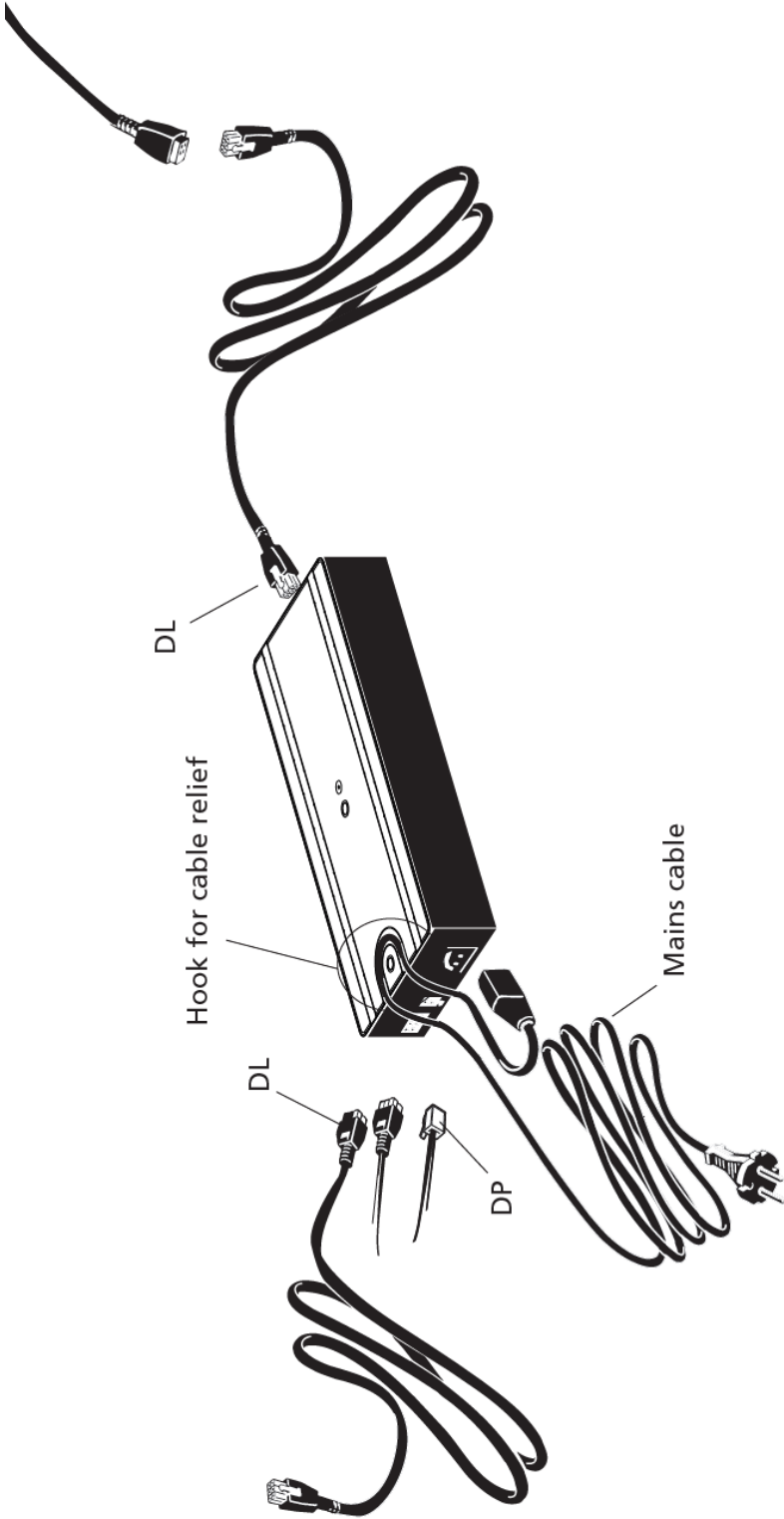
### 4. CBD Cable – 9500mm connector + open end







## MOTORIZATION CABLE CONFIGURATIONS FROM AND TO THE CBDS6







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