



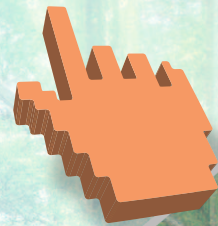
# GAPOSA

**MOTORS & CONTROL**  
SYSTEMS



**RESIDENTIAL  
MOTORISATION**

**INDUSTRIAL  
& COMMERCIAL  
OPERATORS**







*From engineering to production and planning as well as quality control, our mission is to achieve excellence in product and service. The direct result is a number of innovating patents and very reliable products with high performances.*

*We are proud that our team effort has contributed not only to Gaposa's success, but also to the quality of working environments and residential buildings.*



Founded in 1969 by  
Cesare Gasparini,  
Gaposa is proud of more  
than 50 years of activity



 GAPOSA 

5

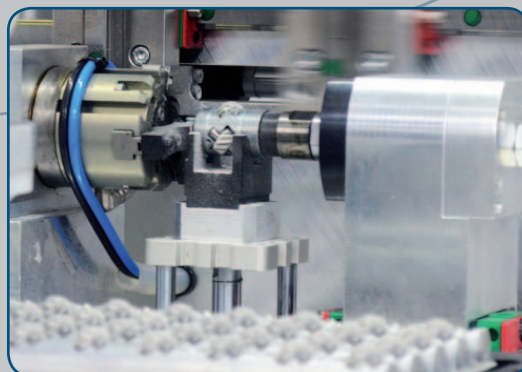
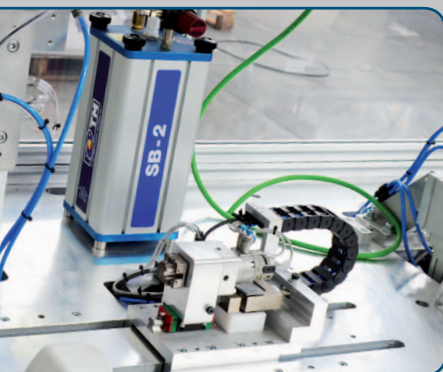
motor lines  
for industrial  
doors

350

different types  
of tubular  
motors

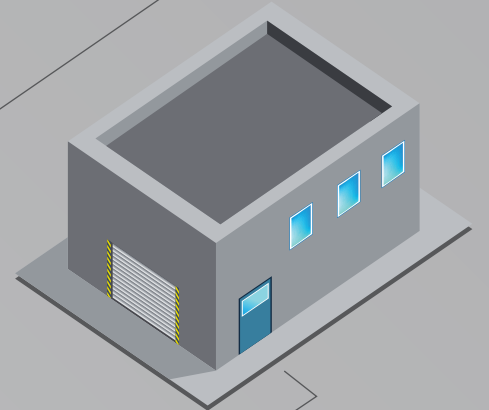
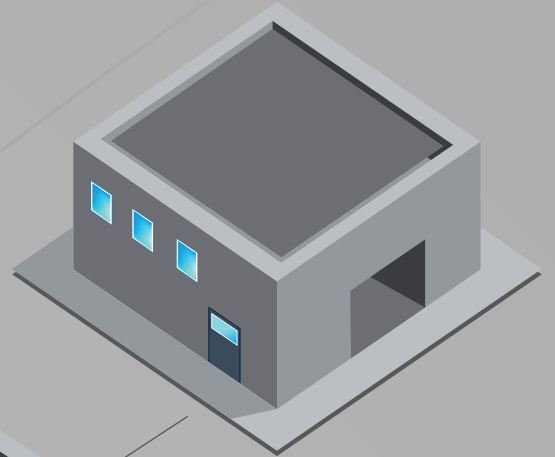
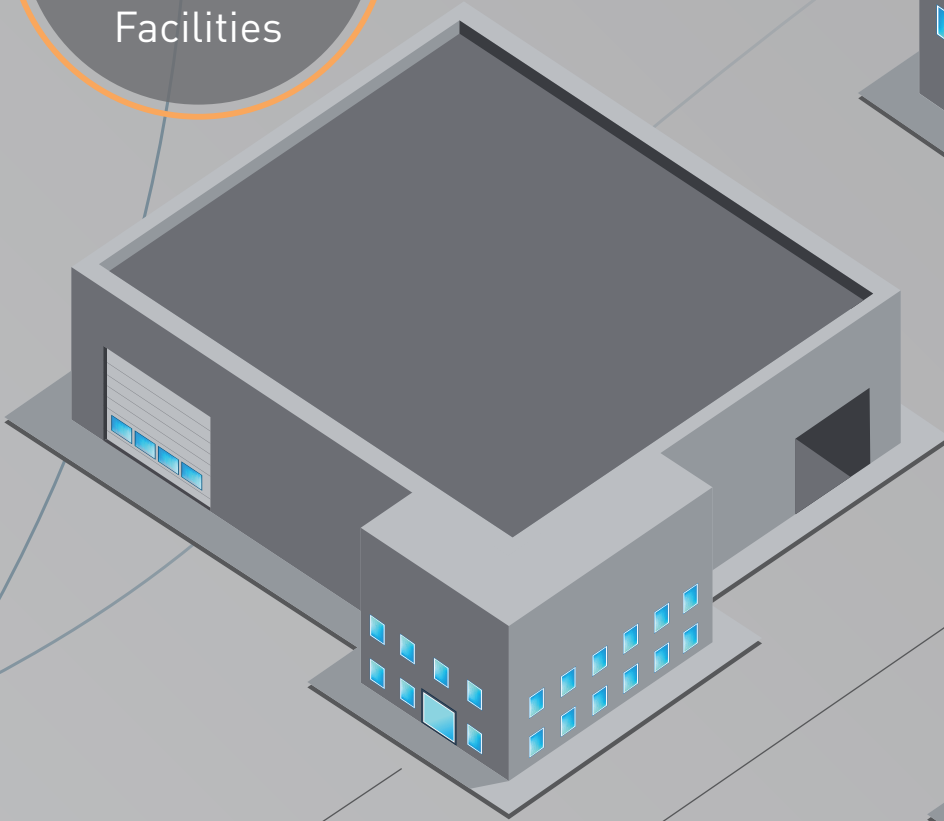
15

quality  
control  
stations



**3**  
Production  
Facilities

**140**  
Employees



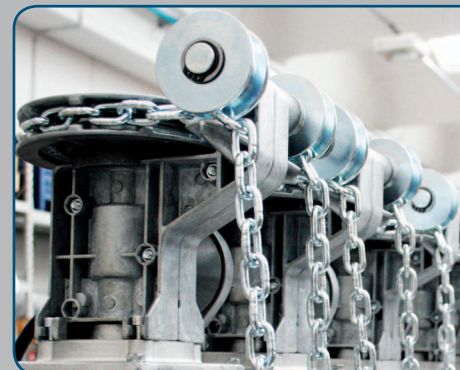
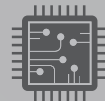
**HEADQUARTERS**  
Motor & Control  
Systems



Windings



Electronics



# Company Profile



Gaposa is an Italian manufacturer producing automation systems for industrial and garage doors as well as for roller shutters and solar protection systems. Gaposa has persevered, from its first years of activity, in a constant R&D policy in order to anticipate market changes.

With a number of patents and a 100% Italian production, Gaposa has strengthened its position as one of the leaders in both the industrial and residential markets.

This strategy has allowed the company to remarkably increase its international presence, with 5 direct subsidiaries in USA, France, Spain, Bulgaria and China as well as exports to more than 30 countries on every continent.



USA  
**GAPOSA Inc.**  
Philadelphia

Spain  
**Gaposa España**  
Valencia

France  
**Gaposa France**  
Lyon

Greece  
Bulgaria  
**Gaposa South East Europe**  
Sofia

Italy  
**Gaposa**  
Fermo

China  
**Yancheng Gaposa Trading**  
Jiangsu

# Project references

Leader in silent motorization for roller shades, Gaposá has been chosen for some of the most significant projects of the recent years.

The next references are only a few examples of projects where Gaposá motors have been preferred for their very low noise emission and high reliability.



Singapore - Create research center

New York - NYT Building



Madrid - Caja Tower







Shanghai - Baccarat residences



Abu Dhabi - Aldar Headquarters

Paris - First Tower



New York - IAC Headquarters



# Residential and window coverings motorisation



## **13 SOLAR POWERED MOTORS**

XQ AUTONOMO

## **23 ROLLER BLINDS & PROJECTION SCREENS**

24 Sileo XS - Overview

26 Sileo XS30DC

28 Sileo XS40DC

30 Sileo XS50DC

32 DC Motor chart selection

34 DC Motor Accessories

35 Power distribution panels

36 Sileo XS40 | XS50

38 Sileo XQ40 | XQ50

## **41 VENETIAN BLINDS**

42 Sileo XS40 | XQ40



## **45 SHUTTERS**

46 XS50 PREMIUM HT

50 XQ50 SENSE | XQ50

52 XQ50BX | XQ50P

54 XQ40

## **57 ZIP SCREENS**

59 XS50 PREMIUM HT SENSEZIP

60 XQ50 SENSEZIP

61 XQ40 SENSEZIP

## **63 AWNINGS**

64 XQ50 S type | XQ50 D type

66 XQ50 | XQ50 M type

68 XQ60 | XQ60 M type

## **71 GARAGE DOORS**

72 XQ50 | XQ60 G type

74 AC Motors main features

76 AC Motor chart selection

78 Adapters & Brackets

88 Accessories

## **91 CONTROLS AND DEVICES**

92 RollApp - Home automation

94 linkIT

96 Emitto Smart K Line transmitters

98 Emitto Smart Line transmitters

100 Emitto Slim Line transmitters

101 Emitto Smart16 transmitters

102 Radio receivers

104 Climatic sensors

106 QC201

107 Radio control units

109 Group control relays

110 Switches

# Industrial motorisation



## **113** **COMMERCIAL SHUTTERS**

- 114 SPLIT
- 116 XQ80

## **121** **INDUSTRIAL SHUTTERS**

- 122 Sidone BRD
- 124 Sidone MIDI
- 126 Sidone MAXXI
- 134 Sidone KTC

## **143** **RAPID DOORS**

- 144 Rapido BBS
- 145 Rapido BRD

## **155** **SECTIONAL DOORS**

- 156 BHS
- 157 BHS Completo
- 162 Kit BBS

## **165** **CONTROLS AND DEVICES**

- 166 QC600 / QC600S / QC600W
- 167 QC500 / QC501
- 168 QC400 / QC401
- 169 QC40F/L QC41F/L
- 170 QC300 / QC301 / QC300R
- 171 QCMR500 / QCLSM
- 172 Accessories

- 174 QC00
- 175 QC000
- 176 Transmitters
- 178 Electronic safety devices
- 179 Accessories
- 180 Key selectors and pushbuttons
- 182 Control unit's main functions & Selection table

## **185** **SAFETY BRAKES**

- 190 Adjustable caps
- 192 Selection table







*Solar motorization  
for roller shutters, zip  
screens and awnings*

# AUTONOMO

Designed to provide an unparalleled level of convenience, efficiency, and eco-friendliness, the **AUTONOMO** Solar Motor is set to transform the way we interact with Zip screens, Rolling shutters and interior blinds.

With a number of solar panel options, torques (1 to 50Nm) and battery solutions, the **AUTONOMO** line from Gaposa will answer any needs.

## ***Torque Sensing Function.***

The *Autonomo Solar Motor* is equipped with a state-of-the-art torque sensing function. This intelligent feature allows the motor to accurately detect resistance levels during operation, ensuring precise and reliable movement.



### ***Solar Station.***

Developed to fit all installation, the SPB18 solar station will be perfect for Zip screens where space inside the head box is an issue or when we need to retrofit an old manual roller shutter to solar technology.

***Double-Try Obstacle Detection (from 20 Nm models).*** Safety is of paramount importance, and with its double-try obstacle detection mechanism, the motor instantly detects any obstructions in the path of your Zip or shutter.



Based on same principle as the **exterior solar motor program** but with a solar panel especially designed to be **installed inside**, the **Autonomo** for interior blinds is perfect when there is no power outlet. Gaposá's complete line of quiet DC motors for interior applications are compatible with SPM10 solar panel.

## COMPONENTS AND TECHNICAL DETAILS

### KIT **XQBPX616** (6 Nm)

Motors	Series	Torque	Speed	Solar Panel	Battery	Connectors	Limits	Power	Amps
<b>XQDC4SX616</b>	<b>XQ40</b>	6 Nm	16 rpm	<b>SPM18</b>	<b>BNH22</b>	Standard (cable 25 cm)	160	36 W	3.0 A

### KIT **XQBPX1012** (10 Nm)

Motors	Series	Torque	Speed	Solar Panel	Battery	Connectors	Limits	Power	Amps
<b>XQDC4SX1012</b>	<b>XQ40</b>	10 Nm	12 rpm	<b>SPM18</b>	<b>BNH23</b>	Standard (cable 25 cm)	160	36 W	3.0 A

### KIT **XSBPX2012 – XQBPX2016** (20 Nm)

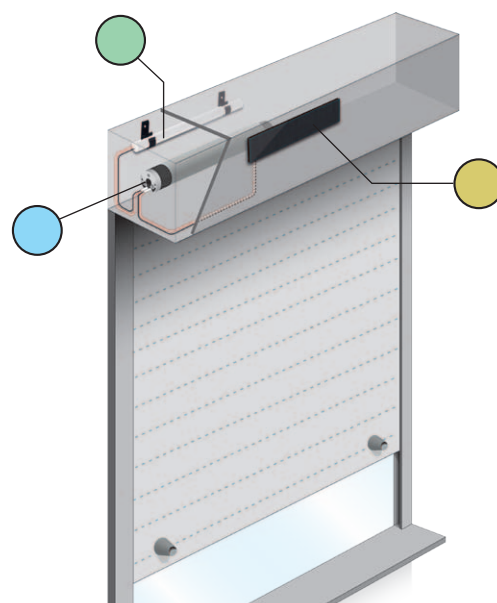
Motors	Series	Torque	Speed	Solar Panel	Battery	Connectors	Limits	Power	Amps
<b>XSDC5SX2012</b> <i>Sileo</i>	<b>XS50</b>	20 Nm	12 rpm	<b>SPM30</b>	<b>BNH24</b>	Standard (cable 25 cm)	80	72 W	6.0 A
<b>XQDC5SX2016</b>	<b>XQ50</b>	20 Nm	16 rpm	<b>SPM30</b>	<b>BNH24</b>	Standard (cable 25 cm)	80	72 W	6.0 A

### KIT **XQBPX309** (30 Nm)

Motors	Series	Torque	Speed	Solar Panel	Battery	Connectors	Limits	Power	Amps
<b>XQDC5SX309</b>	<b>XQ50</b>	30 Nm	9 rpm	<b>SPM30</b>	<b>BNH24</b>	Standard (cable 25 cm)	80	72 W	6.0 A

Solar panels	SPM18	SPM30
<b>Max power current</b>	200 mA	360 mA
<b>Max power Voltage</b>	18 V	18 V
<b>Maximum power</b>	3.6 W	6.4 W
<b>Protection</b>	IP X4	IP X4

Batteries	BNH22	BNH23	BNH24
<b>Voltage</b>	12V / Ni-MH	12V / Ni-MH	12V / Ni-MH
<b>Capacity</b>	2200 mAh	2500 mAh	4000 mAh
<b>Working temperature</b>	-20°C/+70°C	-20°C/+70°C	-20°C/+70°C



**XQ40** TYPE OF HEADS AVAILABLE



**BPX ACCESSORIES**







## KIT **XQBPLX1012** SOLAR STATION (10 Nm)

Motors	Series	Torque	Speed	Solar Panel + Battery	Connectors	Limits	Power	Amps
<b>XQDC4LX1012</b>	<b>XQ40</b>	10 Nm	12 rpm	<b>SPB18</b>	waterproof (cable 50 cm)	160	36 W	3.0 A

## KIT **XSBPLX2012 – XQBPLX2016** SOLAR STATION (20 Nm)

Motors	Series	Torque	Speed	Solar Panel + Battery	Connectors	Limits	Power	Amps
<b>XSDC5LX2012</b> <i>Sileo</i> <b>XS50</b>		20 Nm	12 rpm	<b>SPB18</b>	waterproof (cable 50 cm)	80	72 W	6.0 A
<b>XQDC5LX2016</b>	<b>XQ50</b>	20 Nm	16 rpm	<b>SPB18</b>	waterproof (cable 50 cm)	80	72 W	6.0 A

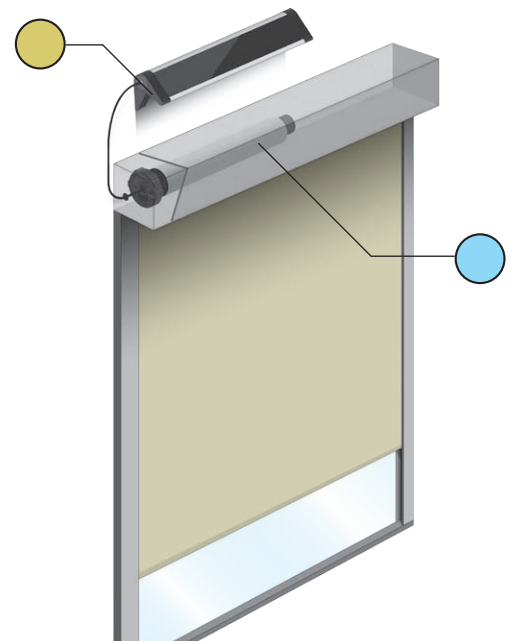
## KIT **XQBPLX309** SOLAR STATION (30 Nm)

Motors	Series	Torque	Speed	Solar Panel + Battery	Connectors	Limits	Power	Amps
<b>XQDC5LX309</b>	<b>XQ50</b>	30 Nm	9 rpm	<b>SPB18</b>	waterproof (cable 50 cm)	80	72 W	6.0 A

## KIT **XQBPLX403** SOLAR STATION (40 Nm)

Motors	Series	Torque	Speed	Solar Panel + Battery	Connectors	Limits	Power	Amps
<b>XQDC5LX403</b>	<b>XQ50</b>	40 Nm	3 rpm	<b>SPB18</b>	waterproof (cable 50 cm)	80	36 W	3.0 A

<b>Solar Station</b>	<b>SPB18</b>
<b>Solar panels</b>	
Max power current	305 mA
Max power Voltage	18 V
Maximum power	5.5 W
Protection	IP 55
<b>Battery in alu profile</b>	
Voltage	12V / Ni-MH
Capacity	5000 mAh
Working temperature	-20°C/+70°C



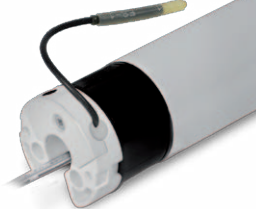
**XQ40** TYPE OF HEADS AVAILABLE

XQDC4LX1012 (Kit XQBPLX1012)



• Motor with starred head, integrated antenna and oversized crown

XQDC4VLX1012 (Kit XQBPLX1012)



• Compact round head motor

MOTORS COMMON TECHNICAL DETAILS

Power Supply	12 V
Working temp.	-10° C / +40° C
Duty rating	6 min
Radio frequency	868.30 MHz
Protection	IP44

## OPTIONALS



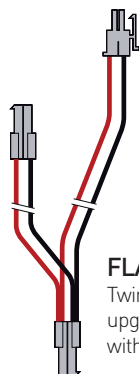
### FLAX13W098

2 m cable for connecting the **AUTONOMO LX** motors to the 12V power supply network via transformer (not included)



### FLAX31W021

Extension cord with waterproof connectors (3 m)



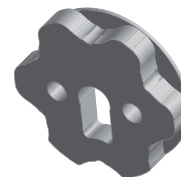
### FLAXTWCC

Twin-connection Y cable to upgrade a solar assembly with an additional solar panel



**AXRRF4**  
Limits crown adapter

Accessory kit for compact **XQ40** head motors

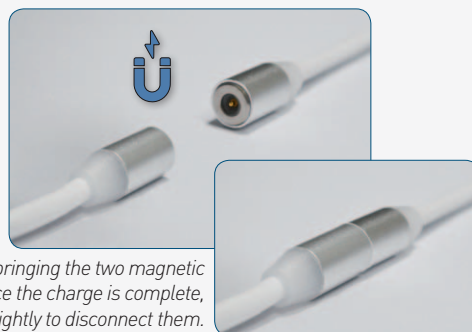
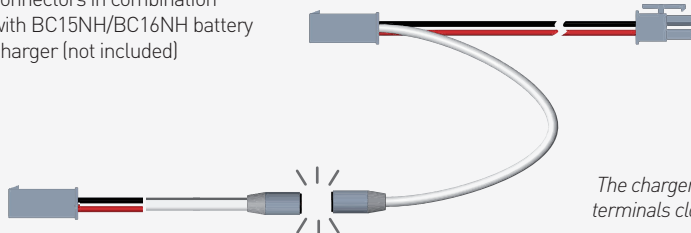


**AXT45**  
Round to star head adapter



### FLAXMC-NI

Charging kit with magnetic connectors in combination with BC15NH/BC16NH battery charger (not included)



The charger is connected by bringing the two magnetic terminals closer together. Once the charge is complete, simply pull lightly to disconnect them.

## BATTERY CHARGER

### BC16NHX2

"Dual Charger" battery charger. It allows you to charge two different battery packs at the same time thanks to the two independent circuits it is equipped with. It has an intuitive programmable interface and a cooling fan for intensive use.

Input: 100-240 VAC / 11-18VDC  
Charging Power:  
AC: CH1 CH2 = 150W  
DC: 120W x 2  
Charging Current: 0.1-10A x 2  
Dimensions: 145 x 100 x 65 mm  
Cable length: 110 - 20 cm



### BC16NH

Battery charger for NI-MH batteries up to 5000mA

Input: 100-240 VAC - 50/60 Hz - 0.5 A Max  
Output: 16 VDC - 0.9/1.8 A  
Dimensions: 60 x 115 x 35 mm  
Cable length: 95 + 95 cm



### BC15NH

Battery charger for NI-MH batteries up to 2500mA

Input: 100-240 VAC - 50/60 Hz - 0.5 A Max  
Output: 12.6 VDC - 1000 mA  
Dimensions: 40 x 58 x 32 mm  
Cable length: 180 cm



### FLAX31W020

Interface for connecting the charger to the Solar station SPB18 (NI-MH battery solar panel on watertight aluminum profile)



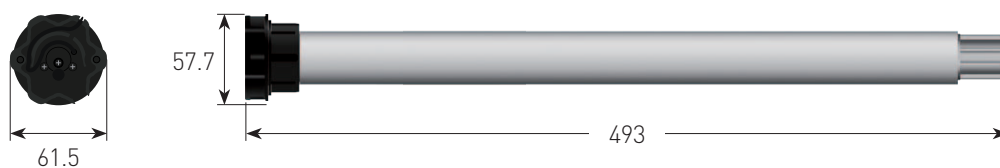


**Motors**

XQDC4SX616

XQDC4SX1012

XQDC4LX1012



XQDC4SVX616

XQDC4SVX1012

XQDC4VLX1012



XQDC5SX2016

XQDC5LX2016

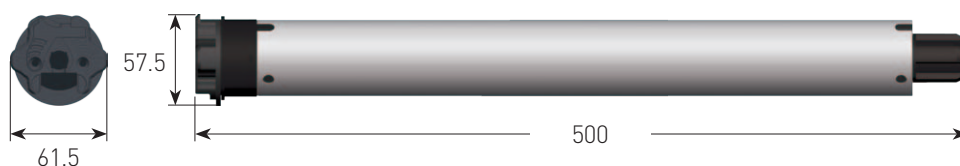
XSDC5SX2012 *Sileo*

XSDC5LX2012 *Sileo*

XQDC5SX309

XQDC5LX309

XQDC5LX403



**Batteries**

BNH22  
BNH23

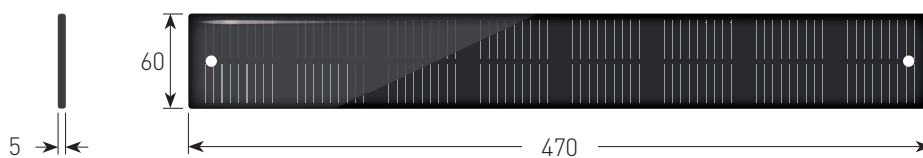


BNH24

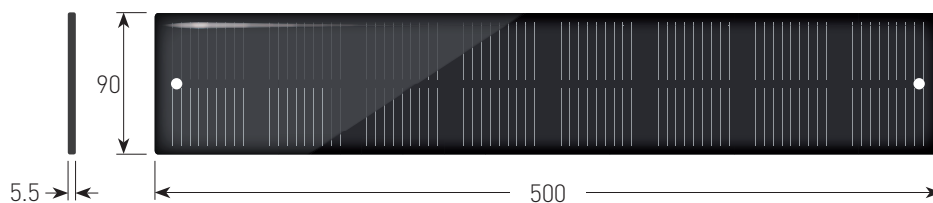


**Solar panels**

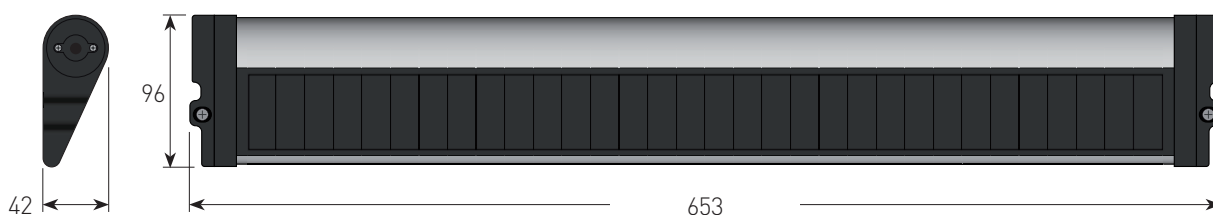
SPM18



SPM30




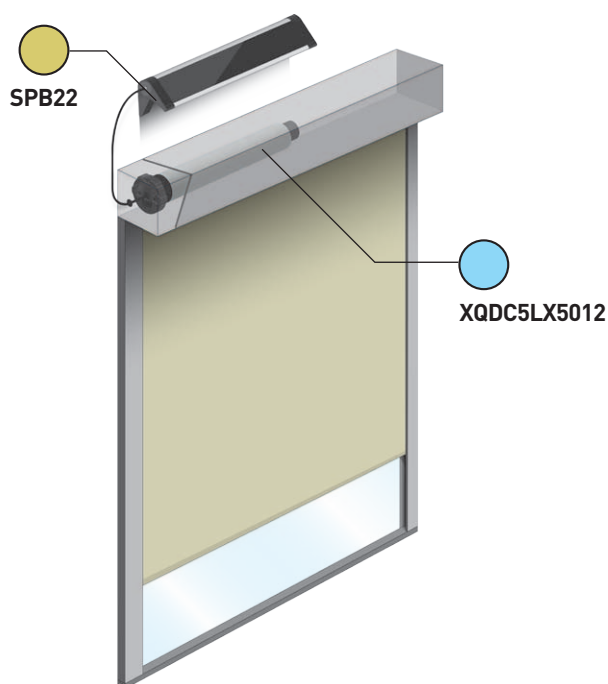
SPB18



## COMPONENTS AND TECHNICAL DETAILS

KIT <b>XQBPLX5012</b> SOLAR STATION (50 Nm)								
Motors	Series	Torque	Speed	Solar Panel + Battery	Connectors	Limits	Power	Amps
<b>XQDC5LX5012</b>	<b>XQ50</b>	50 Nm	12 rpm	<b>SPB22</b>	waterproof (cable 50 cm)	80	150 W	9.0 A

 Solar Station	<b>SPB22</b>
<b>Solar panels</b>	
Max power current	305 mA
Max power Voltage	22 V
Maximum power	6.5 W
Protection	IP 55
<b>Battery in alu profile</b>	
Voltage	16.8V / Ni-MH
Capacity	4200 mAh
Working temperature	-20°C/+70°C

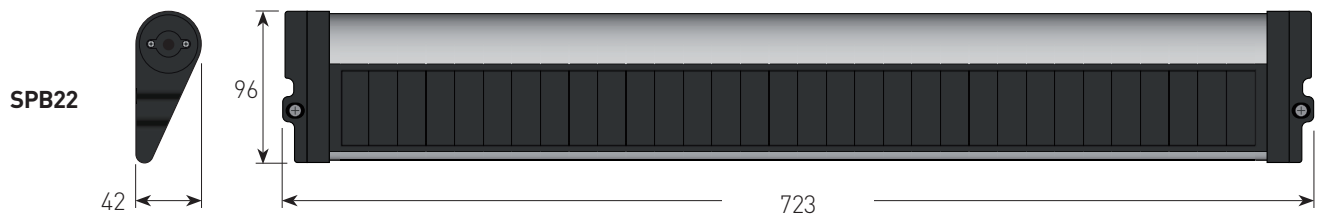
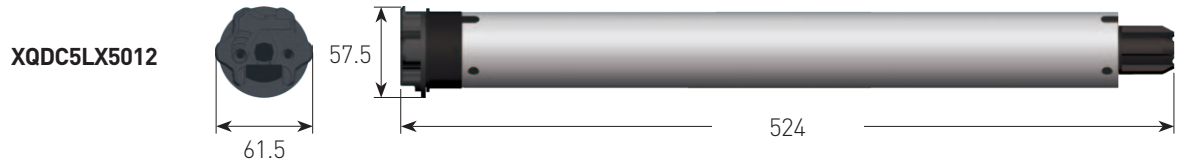


MOTOR TECHNICAL DETAILS

Power Supply	16.8 V
Working temp.	-10° C / +40° C
Duty rating	6 min
Radio frequency	868.30 MHz
Protection	IP44



DIMENSIONS  
mm



## BATTERY CHARGER

### BC18NH

Battery charger for NI-MH batteries  
up to 5000mA

Input: 100-240 VAC - 50/60 Hz - 0.5 A Max

Output: 16 VDC - 0.9/1.8 A

Dimensions: 60 x 115 x 35 mm

Cable length: 95 + 95 cm



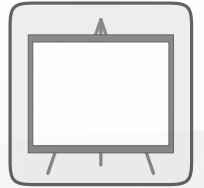
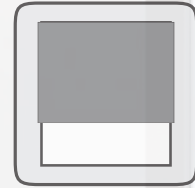
## OPTIONALS



### FLAX31W033

Extension cord with waterproof  
connectors  
(3 m)





# ***ROLLER BLINDS & PROJECTION SCREENS***

The **silent Sileo** and the **super-silent Sileo XS motor ranges** have been especially designed for the roller blinds and projection screen markets. They perfectly represent the high level of engineering reached by Gaposá's R&D department. The high quality level granted by an advanced technology and by a proprietary firmware provides full control on the silence performance of each motor.

SileoXS DC

SileoXS

SileoXQ



A woman with long brown hair is sitting on a light-colored sofa, reading an open book. She is looking out of a large window on the left, which is filled with bright, natural light. The room is softly lit, creating a calm and comfortable atmosphere. The background is slightly blurred, focusing attention on the woman and her activity.

# SileoXS

ULTRA QUIET  
MOTORIZATION



## Generating comfort

Users are increasingly aware of technologies available today for the natural light modulation and the direct sun protection. They are demanding more and more comfort at their homes and at work and do not renounce to visual and acoustic comfort which strongly contribute to their well-being. The Gaposia quiet and ultraquiet motors enable silent operation of the shades in full harmony with their movements.



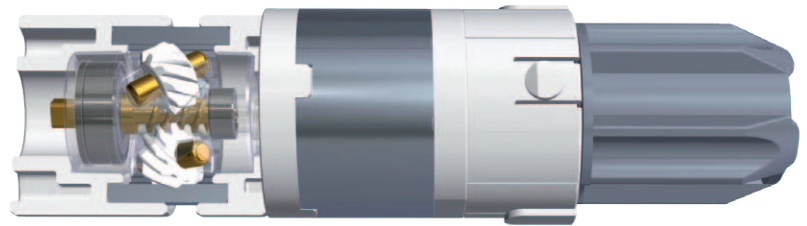


# SileoXS

Engineered with superior noise reduction technology

What makes the XS range so unique is the patented **planetary worm drive gearing, called Gearing Revolution**. It provides an ultra quiet motor operation without any constraint in using dampening components inside the motor or silent blocks to absorb the shade's vibrations. This exclusive gearing technology is available in all **DC** and **AC** motors having the "XS" part number.

Worm-planetary gearing



## XSDC main features:

- ▶ Quiet operation
- ▶ Constant and controlled speed
- ▶ Start and stop speed-ramps
- ▶ Power saving
- ▶ Easy limits setting
- ▶ Easy and safe wiring connection
- ▶ Dry contact inputs

## Sound level

<sup>(1)</sup> Average value of sound pressure recorded in an acoustic room at a distance of 1 m.

### Note

Transducer and acquisition hardware:

- 1/2-inch prepolarized free-field condenser microphone, 50mVPa
- 24 bits 102.4 kS/S ±10 V

### DC MODELS

	Torque (Nm)	Speed (rpm)	Db (A) <sup>(1)</sup>
<b>XSDC3EX030B/BI/BC/BE</b>	1.1	30	36
<b>XSDC3EX226B/BI/BC/BE</b>	2	26	38
<b>XSDC3EX128 / XSDC3DX128</b>	1.5	28	38
<b>XSDC3EX228 / XSDC3DX228</b>	2	28	38
<b>XSDC4EX326B</b>	3	18-28	/
<b>XQDC4EX615B</b>	6	15	39
<b>XSDC5EX326B</b>	3	26	34
<b>XSDC5EX615B</b>	6	15	39
<b>XSDC5DX428 / XSDC5ED428</b>	4	28	34

### AC MODELS

	Torque (Nm)	Speed (rpm)	Db (A) <sup>(1)</sup>
<b>XS4EX330 / XS4E330 / XS4P330</b>	3	30	39
<b>XS4EX620 / XS4E620 / XS4P620</b>	6	20	39
<b>XS5EX530 / XS5E530 / XS5P530</b>	5	30	42
<b>XQ5EX926 / XQ5E926 / XQ5P926</b>	9	26	46
<b>XS5EX1030 / XS5E1030 / XS5P1030</b>	10	30	44



## XSDC3 EX B

Electronic encoded type with built-in radio receiver and Li-Ion battery

Built-in radio receiver

Button for programming & sleep mode



MAIN FEATURES

**Models**

**Torque**

**Speed**

**Power**

**Amps**

**Limit switch**

**Max turns**

**XSDC3EX030B**  
**XSDC3EX030BI**  
**XSDC3EX030BC**  
**XSDC3EX030BE**

1.1 Nm

30 rpm

15 W

1.40 A

Electronic

70

**XSDC3EX226B**  
**XSDC3EX226BI**  
**XSDC3EX226BC**  
**XSDC3EX226BE**

2 Nm

26 rpm

18 W

1.60 A

Electronic

70

TECHNICAL DATA

**Voltage**

12 VDC

**Duty rating**

6 min

**Radio frequency**

868.30 MHz

**Protection**

IP30

**Working temperature**

-10°C / +40°C

**Insulation class**

III

TYPE OF HEADS AVAILABLE

**XSDC3EX030B**  
**XSDC3EX226B**



• Motor with compact head and integrated battery. External charging cable and antenna

**XSDC3EX030BI**  
**XSDC3EX226BI**



• Motor with integrated battery. Integrated charging plug and antenna

**XSDC3EX030BC**  
**XSDC3EX226BC**



• Motor with integrated battery. External charging cable and integrated antenna

**XSDC3EX030BE**  
**XSDC3EX226BE**

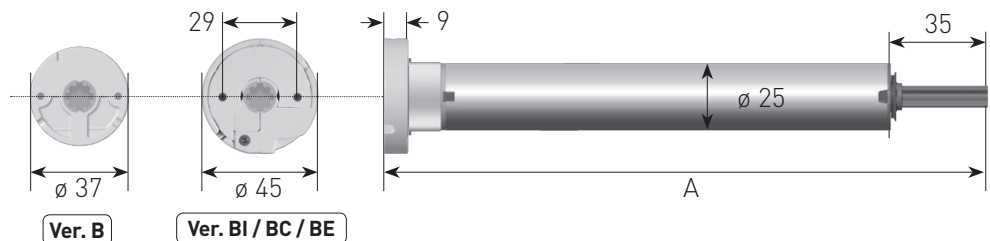


• Motor with external battery. Integrated charging plug and antenna

DIMENSIONS mm

Model	A
XSDC3EX030BI BC	532
XSDC3EX226BI BC	553
XSDC3EX030BE	335
XSDC3EX226BE	356

Model	A
XSDC3EX030B	532
XSDC3EX226B	553



ULTRA QUIET MOTORIZATION  
WITH EXTERNAL POWER SUPPLY

## XSDC3 EX

Electronic encoded type with built-in radio receiver

## XSDC3 DX

Electronic encoded type with built-in radio receiver and dry contacts

## XSDC3 ED

Electronic encoded with dry contacts

Built-in radio receiver

Button for programming

DC motor version  
External power Supply



MAIN FEATURES

Models	XSDC3EX128(L) XSDC3DX128(L) XSDC3ED128(L)	XSDC3EX228(L) XSDC3DX228(L) XSDC3ED228(L)
Torque	1.5 Nm	2 Nm
Speed	28 rpm	28 rpm
Power	22 W	25 W
Amps	0.90 A	1.10 A
Limit switch	Electronic	Electronic
Max turns	35	35

TECHNICAL DATA

Voltage	24 VDC
Duty rating	6 min
Radio frequency (type EX/DX)	868.30 MHz
Protection	IP30
Working temperature	-10°C / +40°C
Insulation class	III

TYPE OF HEADS AVAILABLE

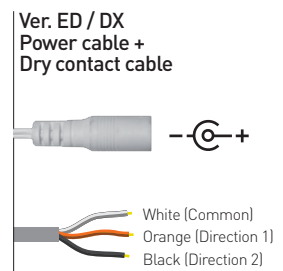
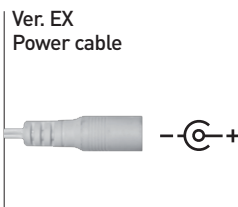


• Motor with compact head and external antenna



• Motor with integrated antenna

WIRING

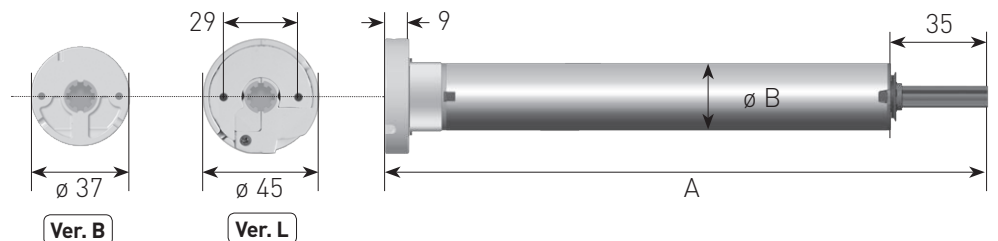


Maximum power cable length  
(to guarantee characteristics)

AWG 14	60 m
AWG 16	35 m
AWG 18	25 m

DIMENSIONS mm

Model	A	ø B
XSDC3EX128	349	25
XSDC3EX228	368	28
XSDC3DX128	349	25
XSDC3DX228	368	28
XSDC3ED128	349	25
XSDC3ED228	368	28

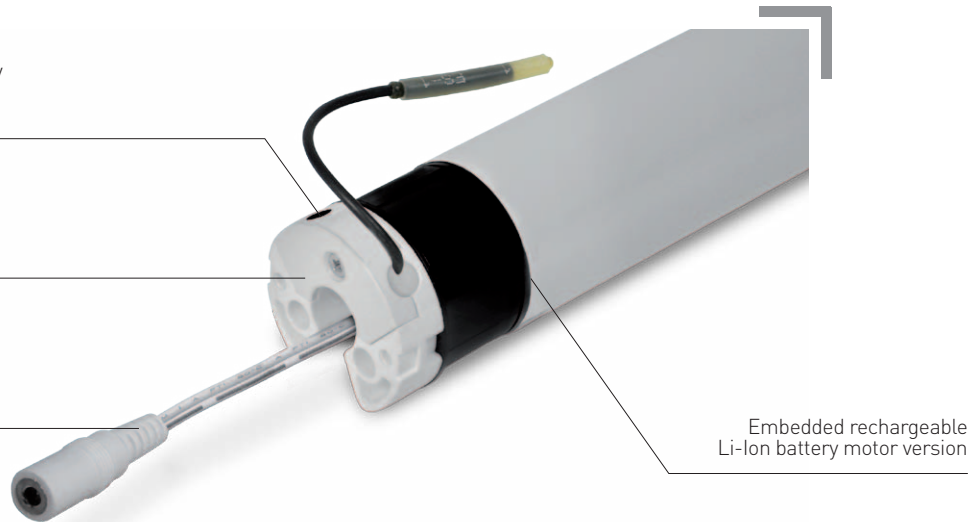


ULTRA QUIET MOTORIZATION  
BATTERY-OPERATED

Setting buttons for easy setting and a quick troubleshooting

Built-in radio receiver

Charging cable



Embedded rechargeable Li-Ion battery motor version

## XSDC4 EX B

Electronic encoded type with built-in radio receiver and Li-Ion battery

### MAIN FEATURES

#### Models

Torque

Speed

Power

Amps

Limit switch

Max turns

Embedded rechargeable Li-Ion battery motor

XSDC4EX326B

XQDC4EX615B

3 Nm

6 Nm

18-28 rpm

15 rpm

32 W

32 W

2.9 A

2.9 A

Electronic

Electronic

55

34

### TECHNICAL DATA

Voltage

12 VDC

Duty rating

6 min

Radio frequency

868.30 MHz

Protection

IP30

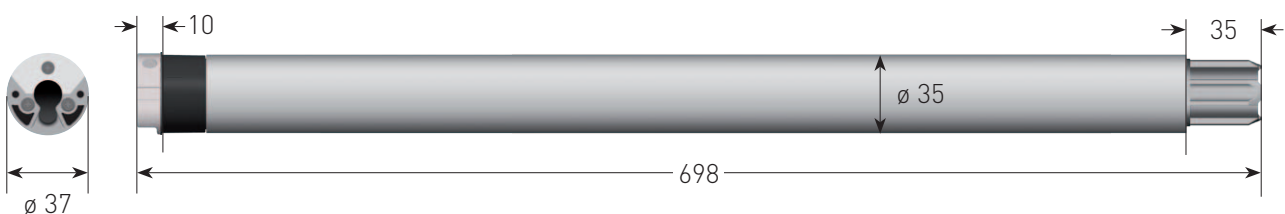
Working temperature

-10°C / +40°C

Insulation class

III

DIMENSIONS  
mm





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Area with horizontal dotted lines for writing or drawing.



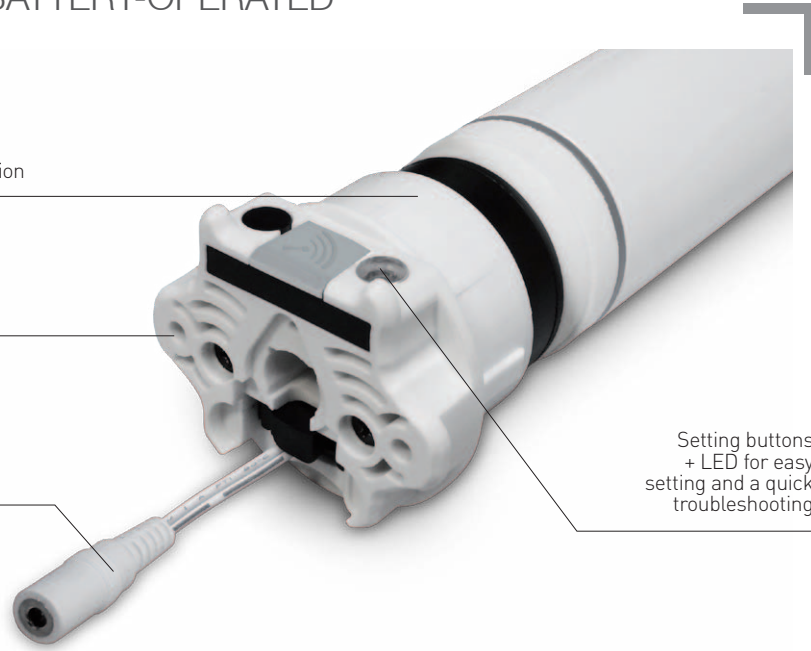
ULTRA QUIET MOTORIZATION  
BATTERY-OPERATED

Embedded rechargeable  
Li-Ion battery motor version

Built-in radio  
receiver

Charging cable  
Integrated antenna

Setting buttons  
+ LED for easy  
setting and a quick  
troubleshooting



## XSDC5 EX B

Electronic encoded type with built-in  
radio receiver and Li-Ion battery

### MAIN FEATURES

#### Models

Torque

Speed

Power

Amps

Limit switch

Max turns

Embedded rechargeable  
Li-Ion battery motor

**XSDC5EX326B**

**XSDC5EX615B**

3 Nm

26 rpm

32 W

2.9 A

Electronic

55

6 Nm

15 rpm

32 W

2.9 A

Electronic

34

### TECHNICAL DATA

Voltage

12 VDC

Duty rating

6 min

Radio frequency

868.30 MHz

Protection

IP30

Working temperature

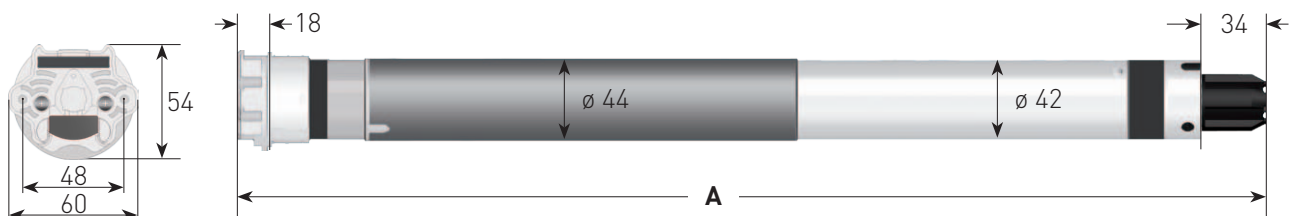
-10°C / +40°C

Insulation class

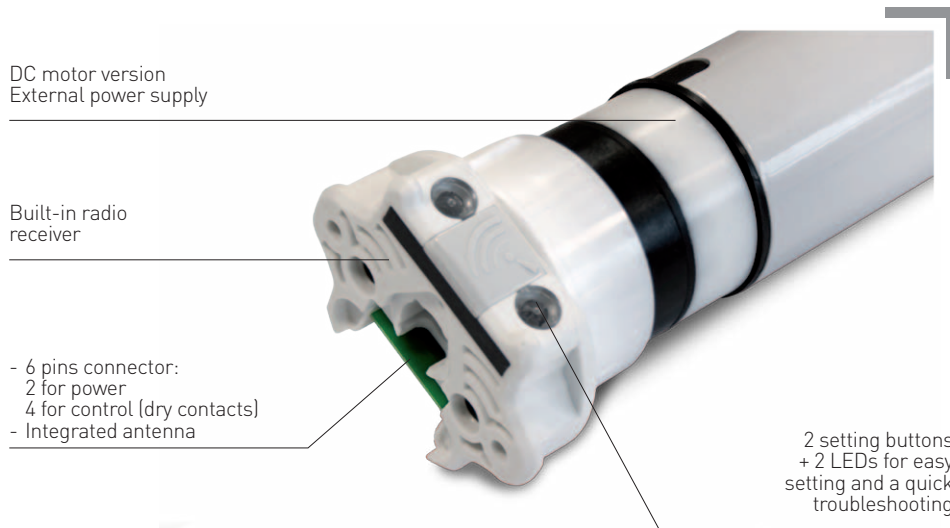
III

### DIMENSIONS mm

Model	A
XSDC5EX326B	573
XSDC5EX615B	576



ULTRA QUIET MOTORIZATION  
WITH EXTERNAL POWER SUPPLY



DC motor version  
External power supply

Built-in radio receiver

- 6 pins connector:  
2 for power  
4 for control (dry contacts)
- Integrated antenna

2 setting buttons  
+ 2 LEDs for easy  
setting and a quick  
troubleshooting

## XSDC5 DX

Electronic encoded type with built-in radio receiver and dry contacts

## XSDC5 ED

Electronic encoded with dry contacts

### OPTIONAL FLAX13W070

Plug-in power cable for XSDC50 motor without dry contacts

27.5 cm



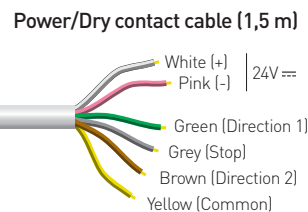
DIMENSIONS  
mm

Model	A	Model	A
XSDC5DX428	511	XSDC5ED428	511
XSDC5DX815	514	XSDC5ED815	514

TECHNICAL DATA

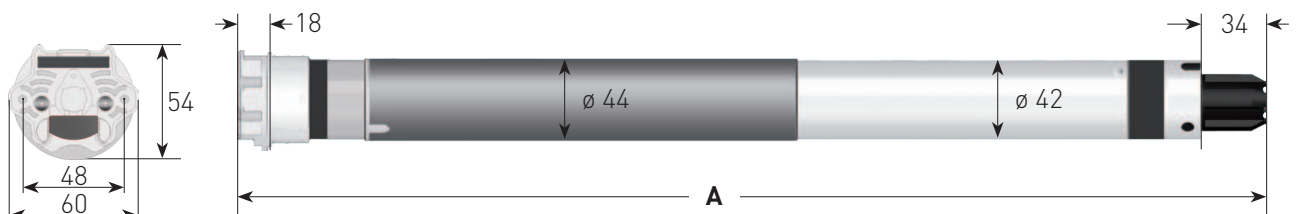
Models	DC motor External power Supply	
	XSDC5DX428 XSDC5ED428	XSDC5DX815 XSDC5ED815
Torque	4 Nm	8 Nm
Speed	28 rpm	15 rpm
Power	46 W	60 W
Amps	2 A	2.5 A
Limit switch	Electronic	Electronic
Max turns	55	34
Voltage	24 VDC	
Duty rating	6 min	
Radio frequency (type DX)	868.30 MHz	
Protection	IP30	
Working temperature	-10°C / +40°C	
Insulation class	III	

WIRING



Maximum power cable length  
(to guarantee characteristics)

AWG 14	35 m
AWG 16	20 m
AWG 18	15 m



## SileoXS 30 DC

ø Tube	type	XSDC30 030B <sup>(1)</sup>	XSDC30 226B <sup>(1)</sup>	XSDC30 128	XSDC30 228 <sup>(2)</sup>
		Max blind weight (fabric + bottom bar)			
29 mm	Benthin	5,6 kg	10,5 kg	7,6 kg	/
32 mm	Benthin	5,1 kg	9,3 kg	7 kg	9,3 kg
38 mm	Rollease	4,2 kg	7,6 kg	5,8 kg	7,6 kg

## SileoXS 40 DC

ø Tube	type	XSDC40 326B <sup>(1)</sup>	XSDC40 326	XSDC40 615B
		Max blind weight (fabric + bottom bar)		
40 mm	Round	10,8 kg	15 kg	17,4 kg
44 mm	Round	9,8 kg	13,6 kg	14,5 kg
50 mm	Round	8,7 kg	12 kg	12,4 kg

## SileoXS 50 DC

ø Tube	type	XSDC50 326B	XSDC50 615B	XSDC50 428	XSDC50 815
		Max blind weight (fabric + bottom bar)			
50 mm	Round	8,7 kg	17,4 kg	12 kg	24 kg
60 mm	Round	7,2 kg	14,5 kg	10,2 kg	20,5 kg
70 mm	Round	6,2 kg	12,4 kg	8,7 kg	17,5 kg

<sup>(1)</sup> Weight of the blind has great influence in the max number of cycles the Li-Ion battery operated motor performs every recharge.

<sup>(2)</sup> 28 mm tube motor

An operating friction factor is taken into account. The data are theoretical and do not consider extra friction due to fabricator/installer mistakes. Tube selection should take into consideration the max allowed deflection which varies with weight and width of the blind.







## BC12

Li-Ion battery charger  
 Input: 100-240 VAC - 50/60 Hz - 0.5 A Max  
 Output: 12.6 VDC - 1000 mA  
 Dimensions: 40 x 58 x 32 mm  
 Cable length: 300 cm

Suitable for motors:

XSDC3EX228B / XSDC3EX228BI  
 XSDC3EX030B / XSDC3EX030BI

XSDC4EX326B  
 XQDC4EX615B

XSDC5EX326B  
 XSDC5EX615B



## TRASDC3

Switching power supply 2 Amps  
 Input: 100-240 VAC - 50/60 Hz - 1.5 A Max  
 Output: 24 VDC - 2.0 A  
 Dimensions: 46 x 88 x 38 mm  
 Cable length: 300 cm

Suitable for motors:

XSDC3EX128 (L)  
 XSDC3EX228 (L)

XSDC3ED128 (L)  
 XSDC3ED228 (L)

XSDC3DX128 (L)  
 XSDC3DX228 (L)



PLUG.EU



PLUG.US



PLUG.AU

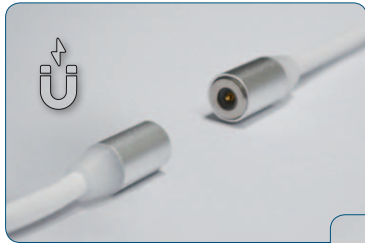


PLUG.UK

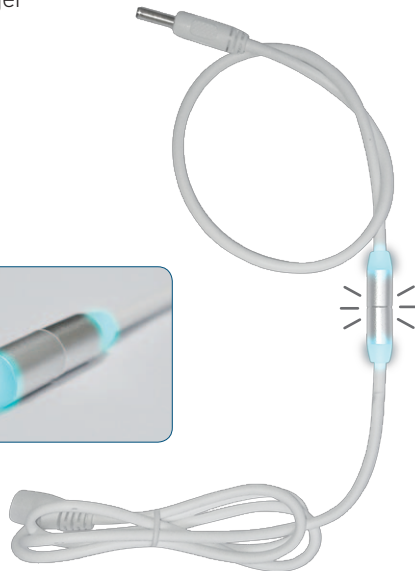


## FLAXMC-LI

Charging kit with magnetic LED connectors  
 in combination with BC12 battery charger  
 (not included)



The charger is connected to the motor by bringing the two magnetic terminals closer together. Once the charge is complete, simply pull lightly to disconnect them. The magnetic connector LED indicates the charging status.



FLAX14W007.L1 (15,5 cm)

FLAX14W007.L2 (122 cm)

FLAX14W007.L3 (244 cm)

Power cord extension with plugs  
 (for **AUTONOMO** motors)



## TRASDC.230

Switching power supply 2,5 Amps  
 Input: 100-240 VAC - 50/60 Hz  
 Output: 24 VDC 2.5 A  
 Dimensions: 117 x 51 x 32 mm  
 Cable length: 180+165 cm

Suitable for motors:

XSDC5DX815      XSDC5ED815  
 XSDC5DX428      XSDC5ED428





### SPM10

Photovoltaic monocrystallin panel  
 Max power current: 100 mA  
 Max power Voltage: 18 V  
 Maximum power: 1.8 W  
 Dimensions: 292 x 48 x 10 mm  
 Cable length: 60 cm



*Solar panel specially designed to be installed indoors. Perfect when there is no power outlet available.*

## Power distribution panels 24V DC



### ARM4

*Power supply for 4 XSDC30 motors*

#### Technical details

<b>Input voltage</b>	100-240Vac 50/60Hz - 3.6 A
<b>Output</b>	4x 24 VDC - 10 A
<b>Motor connections</b>	4
<b>Working temperature</b>	-30°C /+70°C
<b>Dimensions</b>	133 x 208 x 80 mm

### ARM5

*Power supply for 5 motors with dry contact input for each motor and for group control*

#### Technical details

<b>Input voltage - Amps</b>	100-120Vac 50/60Hz - 6.0 A
	200-240Vac 50/60Hz - 4.8 A
<b>Output Voltage</b>	5 x 24 VDC - 10 A
<b>Motor connections</b>	5 DC power + 5 Dry contacts
<b>Working temperature</b>	-30°C /+70°C
<b>Protection fuse</b>	4.0 A
<b>Dimensions</b>	305 x 210 x 120 mm

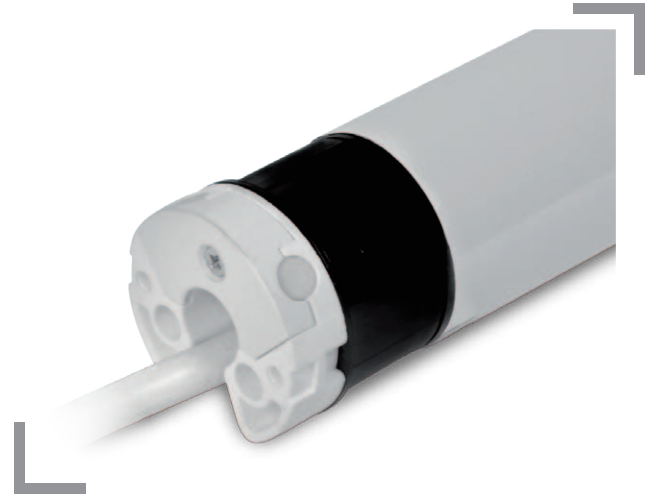


## Line voltage X-quiet tubular motors

**XS4EX** Electronic encoded with built-in radio receiver

**XS4E** Electronic encoded

**XS4P** Mechanical limit switch

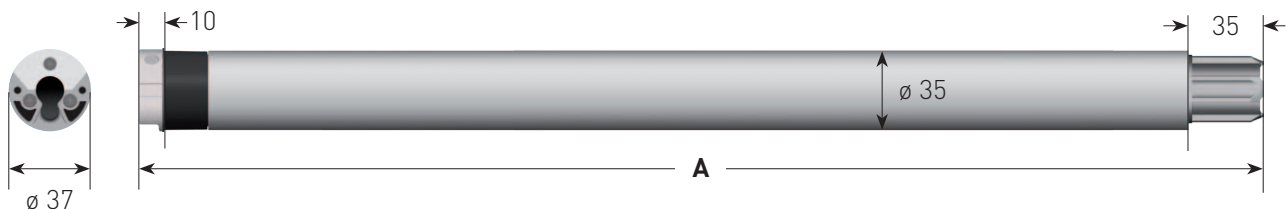


MAIN FEATURES

Models	XS4EX330 XS4E330 XS4P330	XS4EX620 XS4E620 XS4P620
Torque	3 Nm	6 Nm
Speed	30 rpm	20 rpm
Power	90 W	120 W
Amps	0.40 A	0.60 A
Max turns (EX/E - P)	160 - 40	160 - 40

DIMENSIONS mm

Model	A	Model	A
XS4EX330	597	XS4EX620	632
XS4E330	597	XS4E620	632
XS4P330	507	XS4P620	543



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E/P version only)

## Line voltage X-quiet tubular motors

**XS5EX** Electronic encoded with built-in radio receiver with integrated antenna

**XS5E** Electronic encoded

**XS5P** Mechanical limit switch

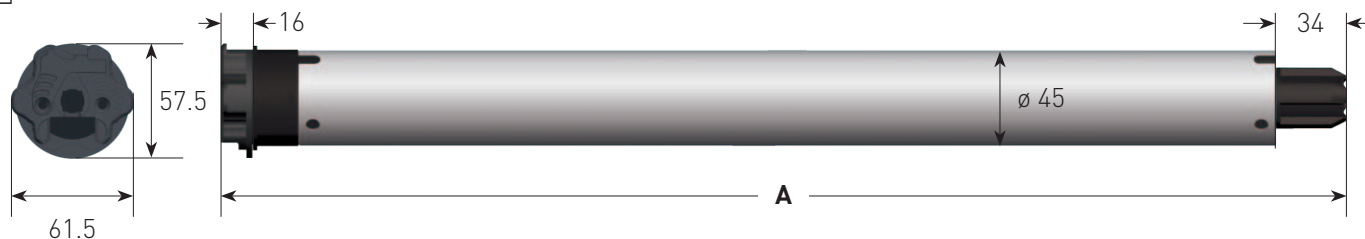


MAIN FEATURES

Models	XS5EX530 XS5E530 XS5P530	XS5EX1030 XS5E1030 XS5P1030
Torque	5 Nm	10 Nm
Speed	30 rpm	30 rpm
Power	156 W	184 W
Amps	0.60 A	0.90 A
Max turns (EX/E - P)	80 - 28	80 - 28

DIMENSIONS mm

Model	A	Model	A
XS5EX530	520	XS5EX1030	571
XS5E530	520	XS5E1030	571
XS5P530	481	XS5P1030	532



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length 2.5 m

- 0.75 mm<sup>2</sup> Blue - Neutral
- 0.75 mm<sup>2</sup> Yellow/Green - Ground
- 0.75 mm<sup>2</sup> Brown
- 0.75 mm<sup>2</sup> Black (in the E/P version only)

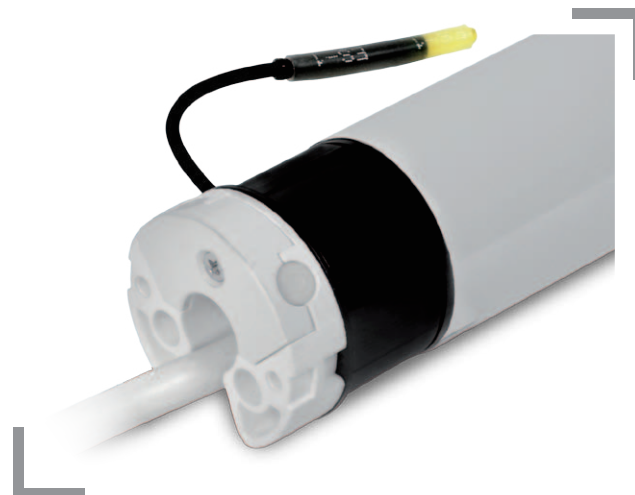


Line voltage quiet tubular motors

**XQ4EX** Electronic encoded with built-in radio receiver

**XQ4E** Electronic encoded

**XQ4P** Mechanical limit switch

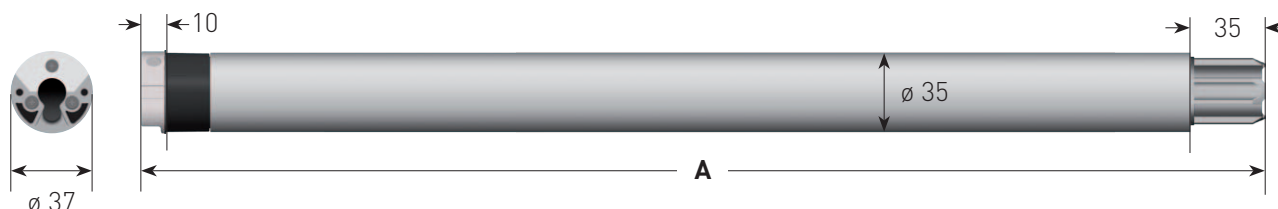


MAIN FEATURES

Models	XQ4EX148 XQ4E148 XQ4P148	XQ4EX333 XQ4E333 XQ4P333	XQ4EX426 XQ4E426 XQ4P426
Torque	1 Nm	3 Nm	4 Nm
Speed	48 rpm	33 rpm	26 rpm
Power	90 W	90 W	90 W
Amps	0.40 A	0.40 A	0.40 A
Max turns (EX/E - P)	160 - 40	160 - 40	160 - 40

DIMENSIONS mm

Model	A	Model	A	Model	A
XQ4EX148	577	XQ4EX333	597	XQ4EX426	597
XQ4E148	577	XQ4E333	597	XQ4E426	597
XQ4P148	487	XQ4P333	507	XQ4P426	507



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E/P version only)



Line voltage quiet tubular motors

**XQ5EX** Electronic encoded with built-in radio receiver with integrated antenna

**XQ5E** Electronic encoded

**XQ5P** Mechanical limit switch

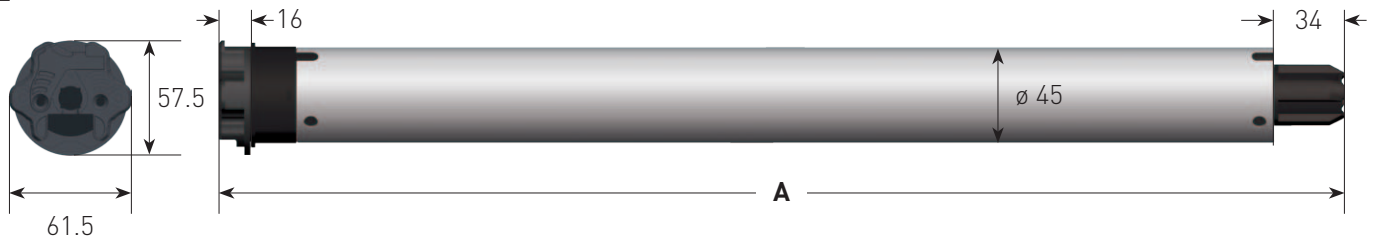


MAIN FEATURES

Models	<b>XQ5EX626</b> <b>XQ5E626</b> <b>XQ5P626</b>	<b>XQ5EX674</b> <b>XQ5E674</b> <b>XQ5P674</b>	<b>XQ5EX926</b> <b>XQ5E926</b> <b>XQ5P926</b>	<b>XQ5EX1530</b> <b>XQ5E1530</b> <b>XQ5P1530</b>
Torque	6 Nm	6 Nm	9 Nm	15 Nm
Speed	26 rpm	74 rpm	26 rpm	30 rpm
Power	130 W	253 W	184 W	250 W
Amps	0.60 A	1.20 A	0.80 A	1.10 A
Max turns (EX/E - P)	80 - 28	80 - 28	80 - 28	80 - 28

DIMENSIONS mm

Model	A	Model	A	Model	A	Model	A
XQ5EX626	542	XQ5EX674	581	XQ5EX926	572	XQ5EX1530	601
XQ5E626	542	XQ5E674	581	XQ5E926	572	XQ5E1530	601
XQ5P626	504	XQ5P674	553	XQ5P926	533	XQ5P1530	563



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length 2.5 m

- 0.75 mm<sup>2</sup> Blue - Neutral
- 0.75 mm<sup>2</sup> Yellow/Green - Ground
- 0.75 mm<sup>2</sup> Brown
- 0.75 mm<sup>2</sup> Black (in the E/P version only)

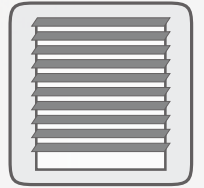








# GAPOSA



# VENETIAN BLINDS

Venetian blinds require the perfect combination of speed and torque. Pushing further the limits, Gaposa also offers a silent solution with the **SILEO XS** motor.

SileoXS

XQ

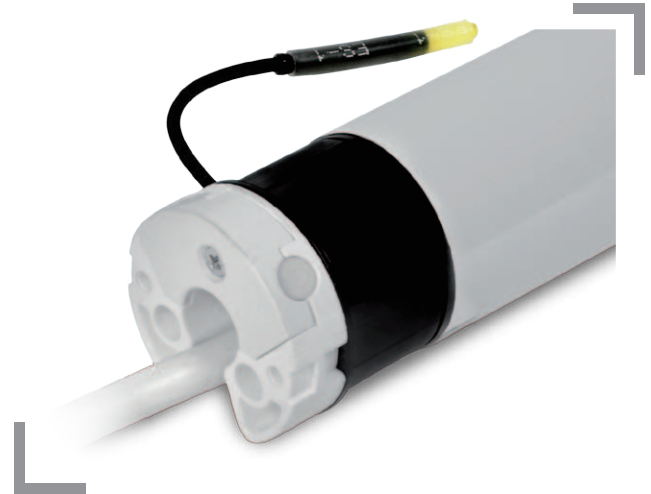


Quiet tubular motors for venetian blinds

**XS4EX** Electronic encoded with built-in radio receiver

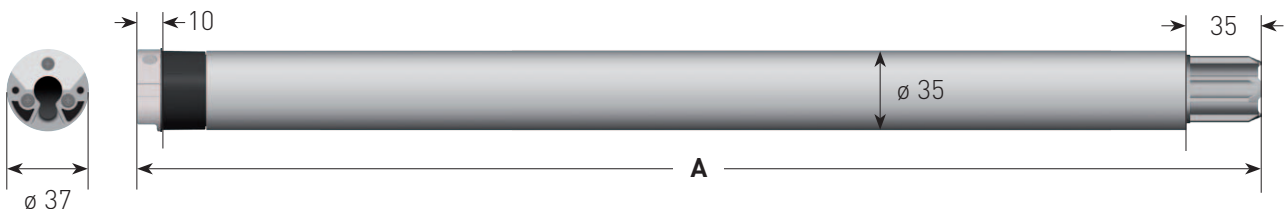
**XS4E** Electronic encoded

**XS4P** Mechanical limit switch



MAIN FEATURES	<b>Models</b>	<b>XS4EX620</b> <b>XS4E620</b> <b>XS4P620</b>
	<b>Torque</b>	6 Nm
	<b>Speed</b>	20 rpm
	<b>Power</b>	120 W
	<b>Amps</b>	0.60 A
	<b>Max turns (EX/E - P)</b>	70 - 35

DIMENSIONS mm	<b>Model</b>	<b>A</b>
	XS4EX620	632
	XS4E620	632
	XS4P620	543



TECHNICAL DATA	<b>Power Supply</b>	230 VAC / 50 Hz
	<b>Working temperature</b>	-10°C / +40°C
	<b>Duty rating</b>	4 min
	<b>Radio frequency (type EX)</b>	868.30 MHz
	<b>Protection</b>	IP44

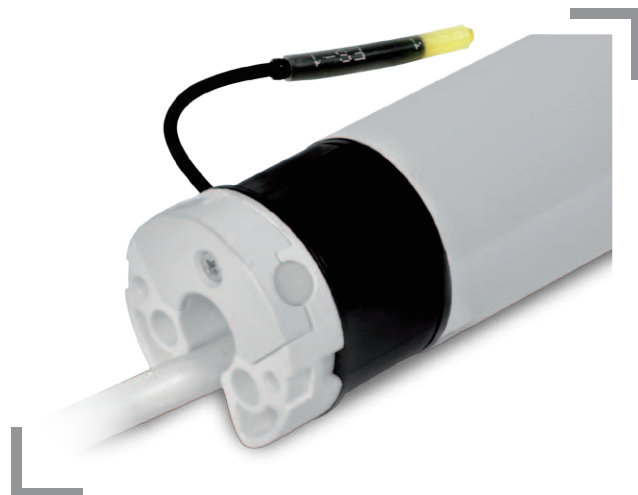
WIRING	<b>Standard cable length</b>	2.5 m
		0.75 mm <sup>2</sup> Blue - Neutral
		0.75 mm <sup>2</sup> Yellow/Green - Ground
		0.75 mm <sup>2</sup> Brown
		0.75 mm <sup>2</sup> Black (in the E/P version only)

## Tubular motors for venetian blinds

**XQ4EX** Electronic encoded with built-in radio receiver

**XQ4E** Electronic encoded

**XQ4P** Mechanical limit switch

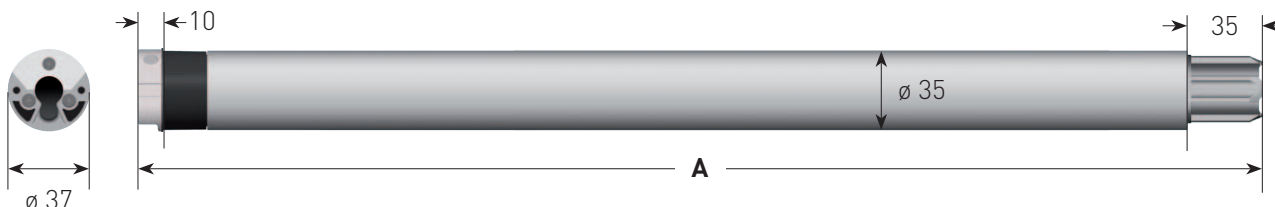


MAIN FEATURES

<b>Models</b>	<b>XQ4EX914 XQ4E914 XQ4P914</b>
<b>Torque</b>	9 Nm
<b>Speed</b>	14 rpm
<b>Power</b>	120 W
<b>Amps</b>	0.60 A
<b>Max turns (EX/E - P)</b>	160 - 40

DIMENSIONS mm

Model	A
XQ4EX914	617
XQ4E914	617
XQ4P914	527



TECHNICAL DATA

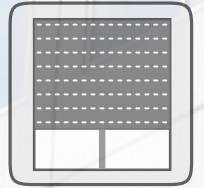
<b>Power Supply</b>	230 VAC / 50 Hz
<b>Working temperature</b>	-10°C / +40°C
<b>Duty rating</b>	4 min
<b>Radio frequency (type EX)</b>	868.30 MHz
<b>Protection</b>	IP44

WIRING

<b>Standard cable length</b>	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E/P version only)







# SHUTTERS

For roller shutters, Gaposa offers the widest choice of models to answer any application and market requirement. We have tried to answer all needs by offering different features such as a choice of limit setting options, obstacle detection, torque sensing or smooth stop at the top limit. Perfectly integrated in the Gaposa radio automation environment all of our motors can be combined with a wide range of electronic devices.



 GAPOSA

**XS 50**  
PREMIUM HT

Ultra Quiet High Torque  
Tubular Motors



**Clearing**  
REVOLUTION



Designed to motorize medium to large roller shades.

Silent, powerful, and innovative, made with the exclusive planetary worm drive gear.

Available in both wireless and hardwired configurations for flexible installation options.

Experience the power of the **XS PREMIUM HT** range - engineered to run 7dB quieter than standard models for a smoother performance.

#### **XS PERFORMANCE**

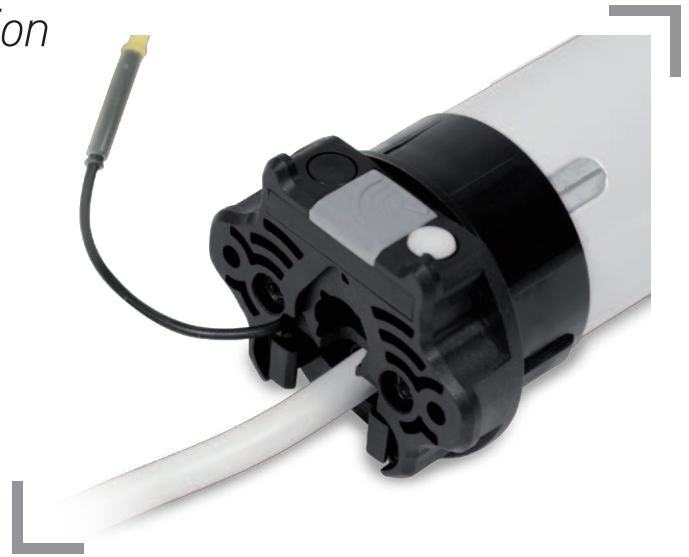
6 Nm at 17 rpm  
10 Nm at 17 rpm  
20 Nm at 17 rpm

**Sound level:**  
< 39dB

*Tubular motors with obstacle detection and automatic limit setting*

**XS 5NX** Electronic encoded with built-in radio receiver with integrated antenna

**XS 5N** Electronic encoded



MAIN FEATURES

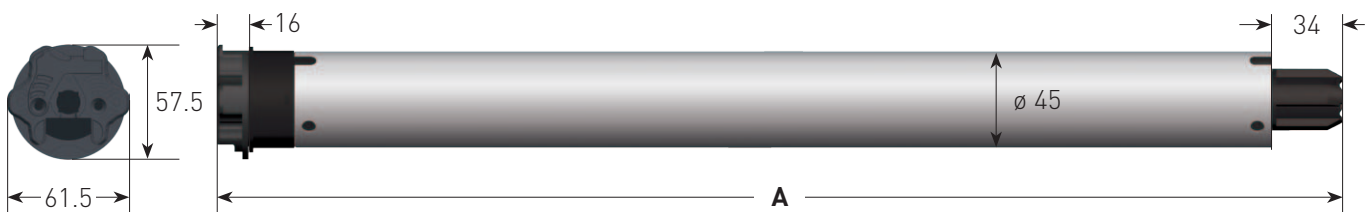
Models	XS5NX617-0 XS5N617	XS5NX1017-0 XS5N1017	XS5NX2017-0 XS5N2017
Torque	6 Nm	10 Nm	20 Nm
Speed	17 rpm	17 rpm	17 rpm
Power	120 W	156 W	184 W
Amps	0.60 A	0.70 A	0.90 A
Max turns	80	80	80

sense SMART FEATURES

- Downwards high sensitive obstacle detection
- Reverse function when an obstacle is detected
- Overload protection upwards
- 3 setting modes: automatic, semi-automatic, manual
- Self-learning limit positions when set in automatic mode
- Motor reset and deactivation of the sense mode by using the normal switch
- Smooth stop against the upper limit

DIMENSIONS mm

Model	A	Model	A	Model	A
XS5NX617-0	555	XS5NX1017-0	560	XS5NX2017-0	585
XS5N617	555	XS5N1017	560	XS5N2017	585



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type NX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the N version only)

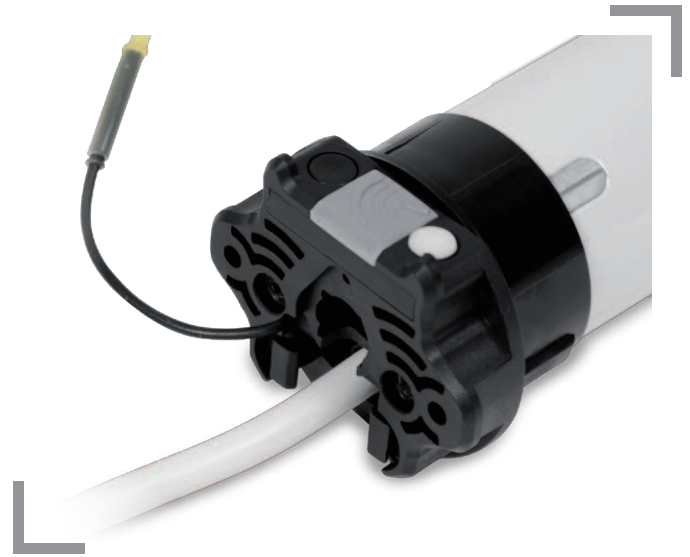


## Line voltage tubular motors

**XS 5EX** Electronic encoded with built-in radio receiver with integrated antenna

**XS 5E** Electronic encoded

**XS 5P** Mechanical limit switch

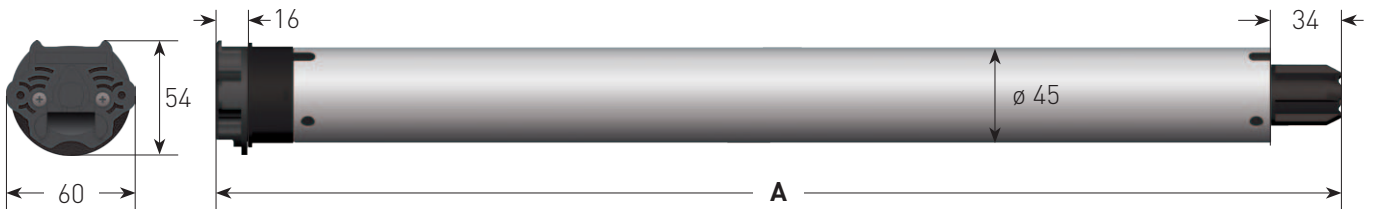


### MAIN FEATURES

Models	XS5EX617-0 XS5E617 XS5P617	XS5EX1017-0 XS5E1017 XS5P1017	XS5EX2017-0 XS5E2017 XS5P2017
Torque	6 Nm	10 Nm	20 Nm
Speed	17 rpm	17 rpm	17 rpm
Power	120 W	156 W	184 W
Amps	0.60 A	0.70 A	0.90 A
Max turns	80-28	80-28	80-28

### DIMENSIONS mm

Model	A	Model	A	Model	A
XS5EX617-0	537	XS5EX1017-0	542	XS5EX2017-0	566
XS5E617	537	XS5E1017	542	XS5E2017	566
XS5P617	516	XS5P1017	521	XS5P2017	546



### TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Protection	IP44

### WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the P/E version only)



Tubular motors with obstacle detection and automatic limit setting

**XQ5NX** Electronic encoded with built-in radio receiver with integrated antenna

**XQ5N** Electronic encoded



MAIN FEATURES

Models	XQ5NX617 XQ5N617	XQ5NX1017 XQ5N1017	XQ5NX2017 XQ5N2017
Torque	6 Nm	10 Nm	20 Nm
Speed	17 rpm	17 rpm	17 rpm
Power	120 W	156 W	184 W
Amps	0.60 A	0.70 A	0.90 A
Max turns	80	80	80

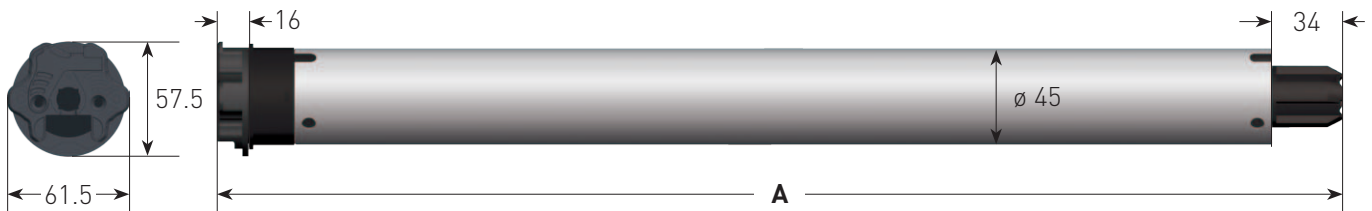
Models	XQ5NX3017 XQ5N3017	XQ5NX4017 XQ5N4017	XQ5NX5014 XQ5N5014
Torque	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17 rpm	14 rpm
Power	253 W	322 W	322 W
Amps	1.20 A	1.50 A	1.50 A
Max turns	80	80	80

sense SMART FEATURES

- Downwards high sensitive obstacle detection
- Reverse function when an obstacle is detected
- Overload protection upwards
- 3 setting modes: automatic, semi-automatic, manual
- Self-learning limit positions when set in automatic mode
- Motor reset and deactivation of the sense mode by using the normal switch
- Smooth stop against the upper limit

DIMENSIONS mm

Model	A	Model	A	Model	A
XQ5NX617	537	XQ5NX1017	542	XQ5NX2017	566
XQ5N617	537	XQ5N1017	542	XQ5N2017	566
XQ5NX3017	601	XQ5NX4017	606	XQ5NX5014	606
XQ5N3017	601	XQ5N4017	606	XQ5N5014	606



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type NX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the N version only)



## Line voltage tubular motors

**XQ5EX** Electronic encoded with built-in radio receiver with integrated antenna

**XQ5E** Electronic encoded



### MAIN FEATURES

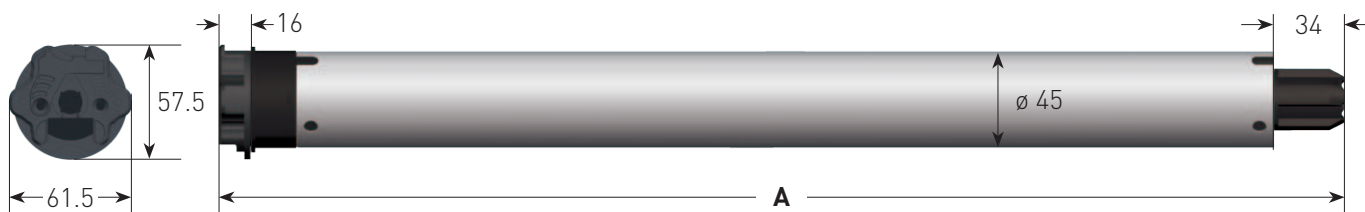
Models	XQ5EX617 XQ5E617	XQ5EX1017 XQ5E1017	XQ5EX2017 XQ5E2017
Torque	6 Nm	10 Nm	20 Nm
Speed	17 rpm	17 rpm	17 rpm
Power	120 W	156 W	184 W
Amps	0.60 A	0.70 A	0.90 A
Max turns	80	80	80

Models	XQ5EX3017 XQ5E3017	XQ5EX4017 XQ5E4017	XQ5EX5014 XQ5E5014
Torque	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17 rpm	14 rpm
Power	253 W	322 W	322 W
Amps	1.20 A	1.50 A	1.50 A
Max turns	80	80	80

### DIMENSIONS mm

Model	A	Model	A	Model	A
XQ5EX617	537	XQ5EX1017	542	XQ5EX2017	566
XQ5E617	537	XQ5E1017	542	XQ5E2017	566
XQ5EX3017	601	XQ5EX4017	606	XQ5EX5014	606
XQ5E3017	601	XQ5E4017	606	XQ5E5014	606



### TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

### WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E version only)





## Line voltage tubular motors

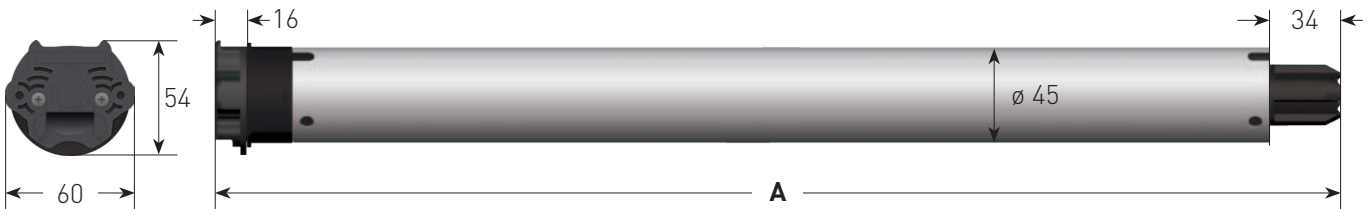
### XQ5BX Electronic encoded with built-in radio receiver and wired control



The additional conductor in the power cable enables motor operation both by radio or pushbutton.

MAIN FEATURES	Models	XQ5BX617	XQ5BX1017	XQ5BX2017	XQ5BX3017	XQ5BX4017	XQ5BX5014
	Torque	6 Nm	10 Nm	20 Nm	30 Nm	40 Nm	50 Nm
	Speed	17 rpm	17 rpm	17 rpm	17 rpm	17 rpm	14 rpm
	Power	120 W	156 W	184 W	253 W	322 W	322 W
	Amps	0.60 A	0.70 A	0.90 A	1.20 A	1.50 A	1.50 A
	Max turns	80	80	80	80	80	80

DIMENSIONS mm	Model	A	Model	A	Model	A	Model	A
	XQ5BX617	537	XQ5BX1017	542	XQ5BX2017	566	XQ5BX3017	601
	XQ5BX4017	606	XQ5BX5014	606				



TECHNICAL DATA	Power Supply	230 VAC / 50 Hz
	Working temperature	-10°C / +40°C
	Duty rating	4 min
	Protection	IP44

WIRING	Standard cable length	2.5 m
		0.75 mm <sup>2</sup> Blue - Neutral
		0.75 mm <sup>2</sup> Yellow/Green - Ground
		0.75 mm <sup>2</sup> Brown
		0.75 mm <sup>2</sup> Black

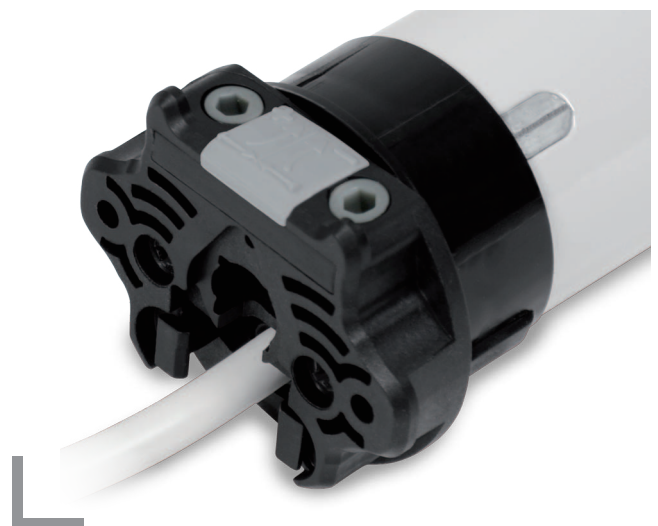
# XQ50



Line voltage tubular motors

# XQ5P

Mechanical limit switch



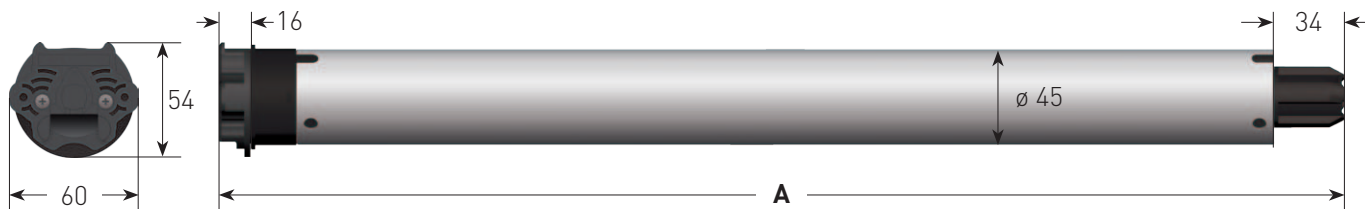
## MAIN FEATURES

Models	XQ5P617	XQ5P1017	XQ5P2017
Torque	6 Nm	10 Nm	20 Nm
Speed	17 rpm	17 rpm	17 rpm
Power	120 W	156 W	184 W
Amps	0.60 A	0.70 A	0.90 A
Max turns	28	28	28

Models	XQ5P3017	XQ5P4017	XQ5P5014
Torque	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17 rpm	14 rpm
Power	253 W	322 W	322 W
Amps	1.20 A	1.50 A	1.50 A
Max turns	28	28	28

## DIMENSIONS mm

Model	A	Model	A	Model	A
XQ5P617	504	XQ5P1017	504	XQ5P2017	528
XQ5P3017	563	XQ5P4017	568	XQ5P5014	568



## TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Protection	IP44

## WIRING

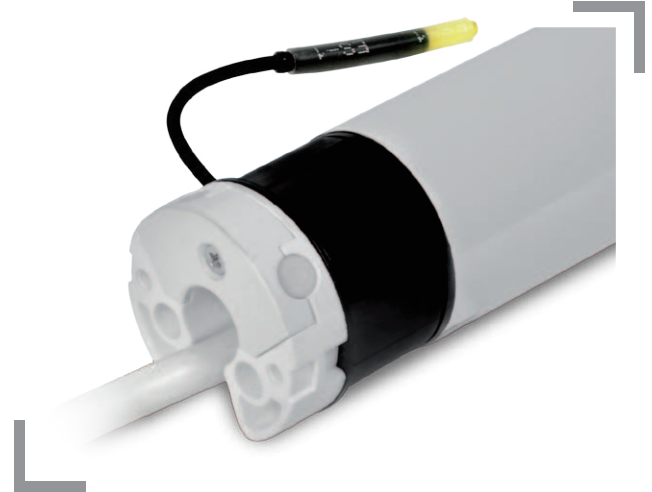
Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black



## Line voltage tubular motors

**XQ4EX** Electronic encoded with built-in radio receiver

**XQ4E** Electronic encoded

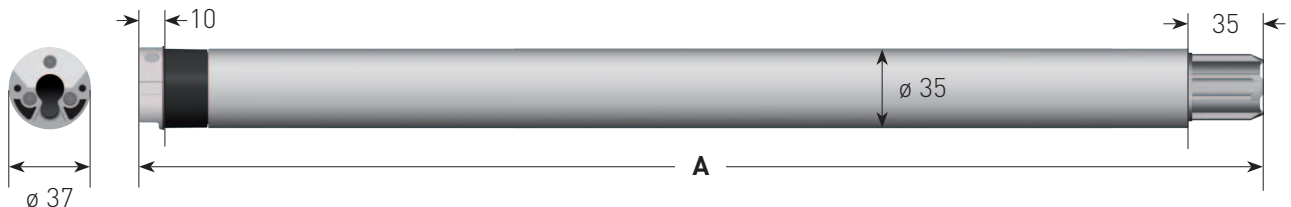


MAIN FEATURES

Models	XQ4EX414 XQ4E414	XQ4EX518 XQ4E518	XQ4EX914 XQ4E914	XQ4EX129 XQ4E129
Torque	4 Nm	5 Nm	9 Nm	12 Nm
Speed	14 rpm	18 rpm	14 rpm	9 rpm
Power	90 W	90 W	120 W	120 W
Amps	0.40 A	0.40 A	0.60 A	0.60 A
Max turns	160	160	160	160

DIMENSIONS mm

Model	A	Model	A	Model	A	Model	A
XQ4EX414	597	XQ4EX518	617	XQ4EX914	617	XQ4EX129	617
XQ4E414	597	XQ4E518	617	XQ4E914	617	XQ4E129	617



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E version only)



## Line voltage tubular motors

### XQ4P Mechanical limit switch

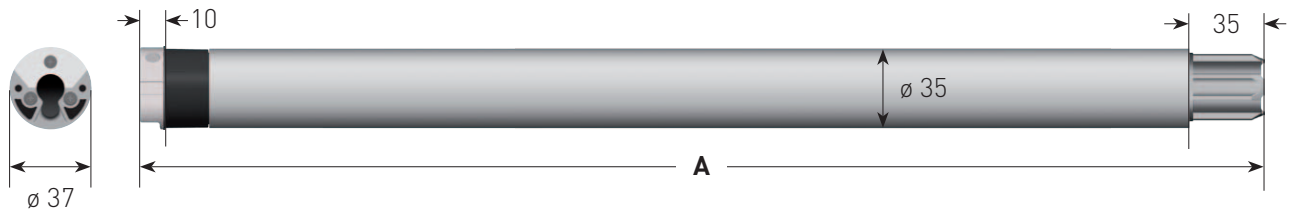


MAIN FEATURES

Models	XQ4P414	XQ4P518	XQ4P914	XQ4P129
Torque	4 Nm	5 Nm	9 Nm	12 Nm
Speed	14 rpm	18 rpm	14 rpm	9 rpm
Power	90 W	90 W	120 W	120 W
Amps	0.40 A	0.40 A	0.60 A	0.60 A
Max turns	40	40	40	40

DIMENSIONS mm

Model	A	Model	A	Model	A	Model	A
XQ4P414	507	XQ4P518	507	XQ4P914	527	XQ4P129	527



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Protection	IP44

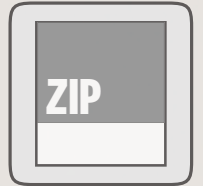
WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black



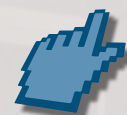






# ZIP SCREENS

ZIP-screens are the ultimate and stylish external blind solution for sun, rain and wind protection. Gaposa has specially design the senseZIP motor range for this particular purpose.





## Ultra Quiet High Torque Tubular Motors

Available in both wireless and hardwired configurations for flexible installation options.

Experience the power of the **XS PREMIUM HT** range - engineered to run 7dB quieter than standard models for a smoother performance.

### XS PERFORMANCE

6 Nm at 17 rpm  
10 Nm at 17 rpm  
20 Nm at 17 rpm

Sound level: < 39dB



## senseZIP

SENSE ZIP motors for ZIP-screens require upper torque stop (usually cassette) and specific adapters. The selection of the right torque is according to the screen size and to its weight, both essential elements for the motor overload protection.

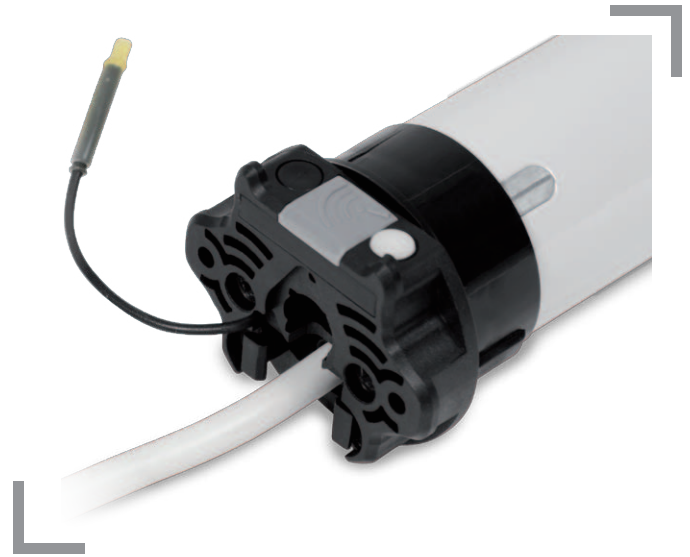
### SMART FEATURES

- ▶ Downward high sensitive obstacle detection
- ▶ Reverse function when an obstacle is detected
- ▶ Overload protection upwards
- ▶ 3 limit setting modes: automatic, semi-automatic, manual
- ▶ Self-learning limit positions when set in automatic mode
- ▶ Motor reset and deactivation of the sense mode by using a normal switch
- ▶ Smooth stop at the upper limit
- ▶ Available also in **XS** type for the quietest operation

Tubular motors with obstacle detection and automatic limit setting for ZIP-screens

**XS 5JX** Electronic encoded with built-in radio receiver with integrated antenna

**XS 5J** Electronic encoded

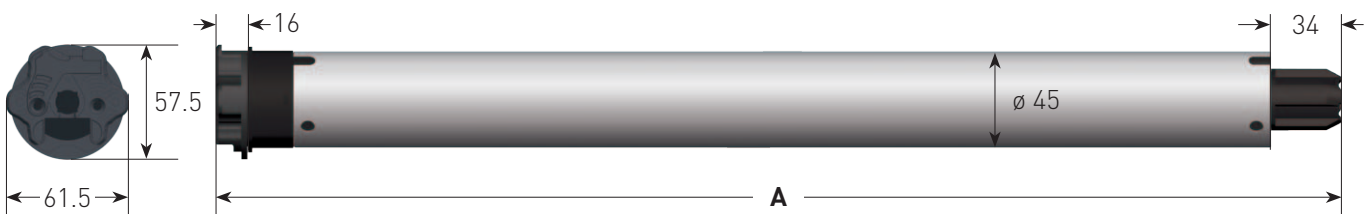


MAIN FEATURES

Models	XS5JX617-0 XS5J617	XS5JX1017-0 XS5J1017	XS5JX2017-0 XS5J2017
Torque	6 Nm	10 Nm	20 Nm
Speed	17 rpm	17 rpm	17 rpm
Power	120 W	156 W	184 W
Amps	0.60 A	0.70 A	0.90 A
Max turns	80	80	80

DIMENSIONS mm

Model	A	Model	A	Model	A
XS5JX617-0	555	XS5JX1017-0	560	XS5JX2017-0	585
XS5J617	555	XS5J1017	560	XS5J2017	585



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type JX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the J version only)



Tubular motors with obstacle detection and automatic limit setting for ZIP-screens

**XQ5JX** Electronic encoded with built-in radio receiver with integrated antenna

**XQ5J** Electronic encoded



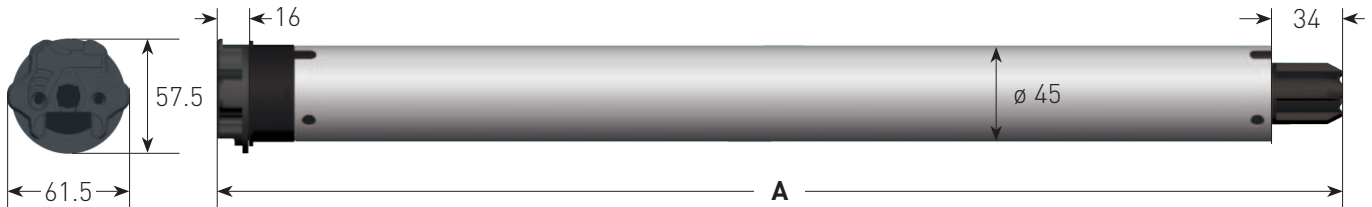
MAIN FEATURES

Models	XQ5JX617 XQ5J617	XQ5JX1017 XQ5J1017	XQ5JX2017 XQ5J2017
Torque	6 Nm	10 Nm	20 Nm
Speed	17 rpm	17 rpm	17 rpm
Power	120 W	156 W	184 W
Amps	0.60 A	0.70 A	0.90 A
Max turns	80	80	80

Models	XQ5JX3017 XQ5J3017	XQ5JX4017 XQ5J4017	XQ5JX5014 XQ5J5014
Torque	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17	14 rpm
Power	253 W	322 W	322 W
Amps	1.20 A	1.50 A	1.50 A
Max turns	80	80	80

DIMENSIONS mm

Model	A	Model	A	Model	A
XQ5JX617	537	XQ5JX1017	542	XQ5JX2017	566
XQ5J617	537	XQ5J1017	542	XQ5J2017	566
XQ5JX3017	601	XQ5JX4017	606	XQ5JX5014	606
XQ5J3017	601	XQ5J4017	606	XQ5J5014	606



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type JX)	868.30 MHz
Protection	IP44

WIRING

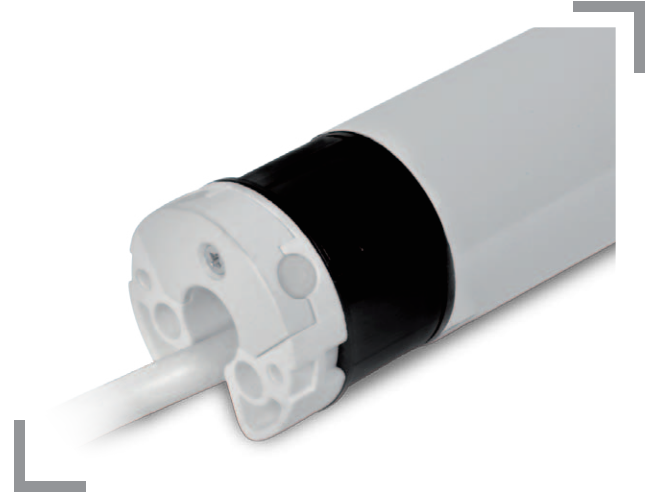
Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the J version only)



Tubular motors with obstacle detection  
and automatic limit setting for ZIP-screens

**XQ4JX** Electronic encoded with  
built-in radio receiver

**XQ4J** Electronic encoded

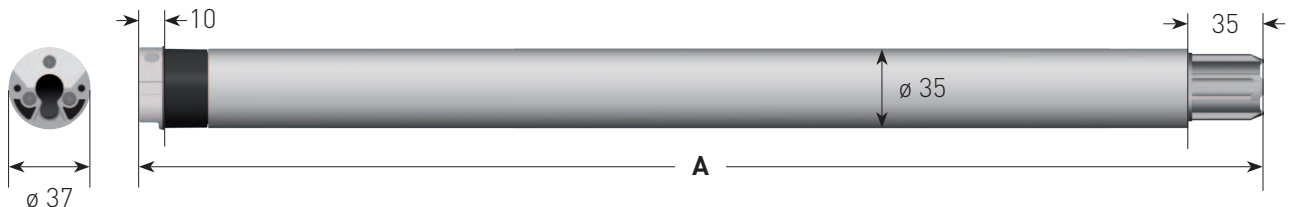


MAIN  
FEATURES

Models	<b>XS4JX620</b> SILEO <b>XS4J620</b> SILEO	<b>XQ4JX914</b> <b>XQ4J914</b>
Torque	6 Nm	9 Nm
Speed	20 rpm	14 rpm
Power	120 W	120 W
Amps	0.60 A	0.60 A
Max turns	160	160

DIMENSIONS  
mm

Model	A	Model	A
<b>XS4JX620</b>	632	<b>XQ4JX914</b>	617
<b>XS4J620</b>	632	<b>XQ4J914</b>	617



TECHNICAL  
DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type JX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the J version only)







# GAPOSA



# AWNINGS

With the **S range**, Gaposa has developed a special motor line for cassette awnings which push further our catalogue selection. The **DX range** allows to directly connect a small electrical device and we complete our offer for the awning market with our more standard motor range. From **XQ50 to XQ60 series** with or without manual override or radio, all the combinations are available to suit every need.

## XQ





Tubular motors with dedicated firmware for cassette awnings

**XQ5SX** Electronic encoded with built-in radio receiver with integrated antenna

**XQ5S** Electronic encoded



The S range was especially designed for the awning market:

MAIN FEATURES

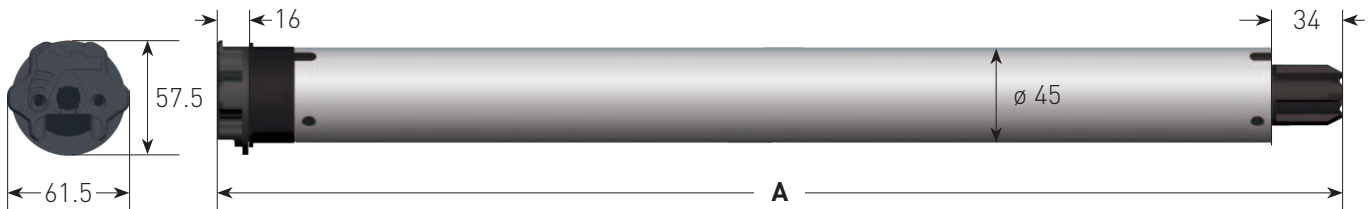
Models	XQ5SX3017 XQ5S3017	XQ5SX4017 XQ5S4017	XQ5SX5014 XQ5S5014
Torque	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17 rpm	14 rpm
Power	253 W	322 W	322 W
Amps	1.20 A	1.50 A	1.50 A
Max turns	80	80	80

SMART FEATURES

- ▶ 6-8 running time
- ▶ Faster cooling time after thermal protection
- ▶ Torque sensor for top end limit adjustment
- ▶ Top end limit release for fabric protection while still keeping cassette awning weatherproof
- ▶ Fabric tensioning feature

DIMENSIONS mm

Model	A	Model	A	Model	A
XQ5SX3017	601	XQ5SX4017	606	XQ5SX5014	606
XQ5S3017	601	XQ5S4017	606	XQ5S5014	606



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type SX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E version only)





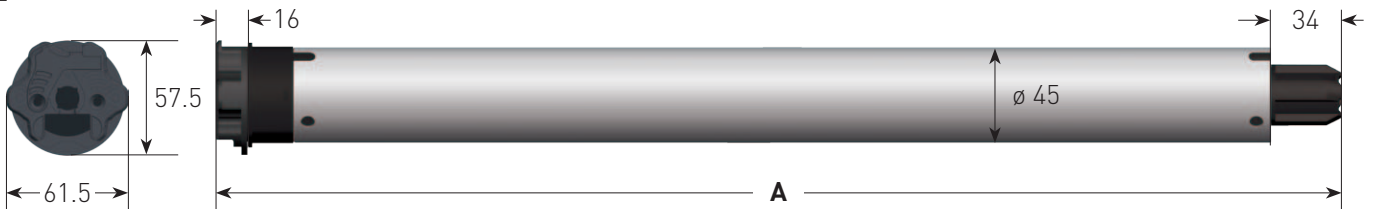
*Tubular motors for awnings that allow to connect low power electrical devices such as LED lights and speakers.*

**XQ5DX** Electronic encoded with built-in radio receiver with integrated antenna



MAIN FEATURES	Models	XQ5DX3017	XQ5DX4017	XQ5DX5014
	Torque	30 Nm	40 Nm	50 Nm
	Speed	17 rpm	17 rpm	14 rpm
	Power	253 W	322 W	322 W
	Amps	1.20 A	1.50 A	1.50 A
	Max turns	80	80	80

DIMENSIONS mm	Model	A	Model	A	Model	A
		XQ5DX3017	601	XQ5DX4017	606	XQ5DX5014



TECHNICAL DATA	Power Supply	230 VAC / 50 Hz
	Output power supply	230 VAC / 50 Hz - Max 80 W
	Working temperature	-10°C / +40°C
	Duty rating	4 min
	Radio frequency	868.30 MHz
	Protection	IP44

WIRING	Standard cable length	2.5 m
		0.75 mm <sup>2</sup> Blue - Neutral
		0.75 mm <sup>2</sup> Yellow/Green - Ground
		0.75 mm <sup>2</sup> Brown
		0.75 mm <sup>2</sup> Black



## Tubular motors for awnings

**XQ5EX** Electronic encoded with built-in radio receiver with integrated antenna

**XQ5E** Electronic encoded

**XQ5P** Mechanical limit switch

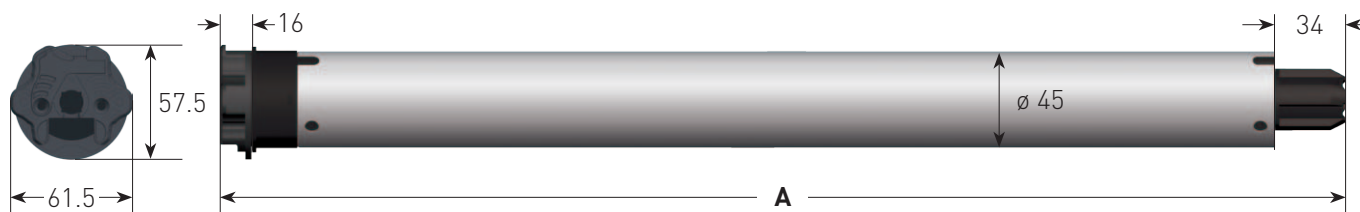


MAIN FEATURES

Models	XQ5EX2017 XQ5E2017 XQ5P2017	XQ5EX3017 XQ5E3017 XQ5P3017	XQ5EX4017 XQ5E4017 XQ5P4017	XQ5EX5014 XQ5E5014 XQ5P5014
Torque	20 Nm	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17 rpm	17 rpm	14 rpm
Power	184 W	253 W	322 W	322 W
Amps	0.90 A	1.20 A	1.50 A	1.50 A
Max turns (EX/E - P)	80 - 26	80 - 26	80 - 26	80 - 26

DIMENSIONS mm

Model	A	Model	A	Model	A	Model	A
XQ5EX2017	566	XQ5EX3017	601	XQ5EX4017	606	XQ5EX5014	606
XQ5E2017	566	XQ5E3017	601	XQ5E4017	606	XQ5E5014	606
XQ5P2017	528	XQ5P3017	563	XQ5P4017	568	XQ5P5014	568



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

WIRING

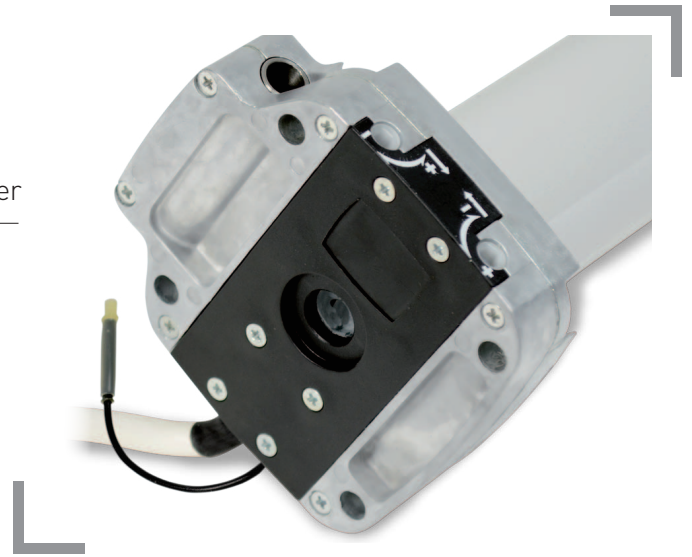
Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E/P version only)



Manual override motors for awnings

**XQ5MX** Tubular motors with manual override and integrated receiver

**XQ5M** Tubular motors with manual override

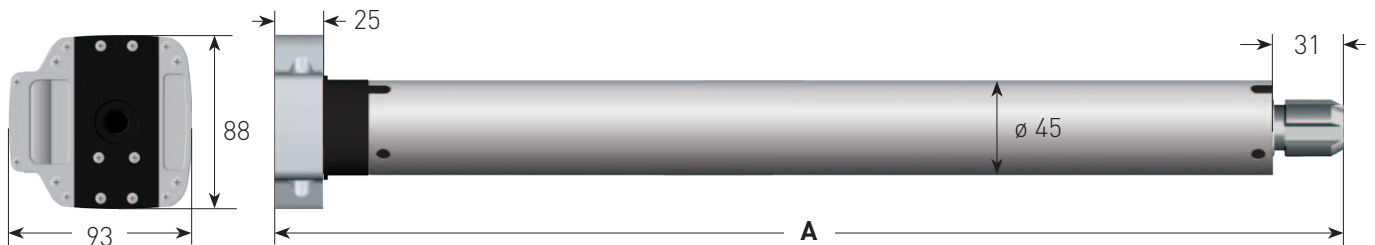


MAIN FEATURES

Models	XQ5MX2017 XQ5M2017	XQ5MX3017 XQ5M3017	XQ5MX4017 XQ5M4017	XQ5MX5014 XQ5M5014
Torque	20 Nm	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17 rpm	17 rpm	14 rpm
Power	184 W	253 W	322 W	322 W
Amps	0.90 A	1.20 A	1.50 A	1.50 A
Max turns	26	26	26	26

DIMENSIONS mm

Model	A	Model	A	Model	A	Model	A
XQ5MX2017	829	XQ5MX3017	829	XQ5MX4017	829	XQ5MX5014	829
XQ5M2017	575	XQ5M3017	611	XQ5M4017	615	XQ5M5014	615



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type MX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the M version only)





Tubular motors for large awnings

**XQ6EX** Electronic encoded with built-in radio receiver

**XQ6E** Electronic encoded

**XQ6P** Mechanical limit switch

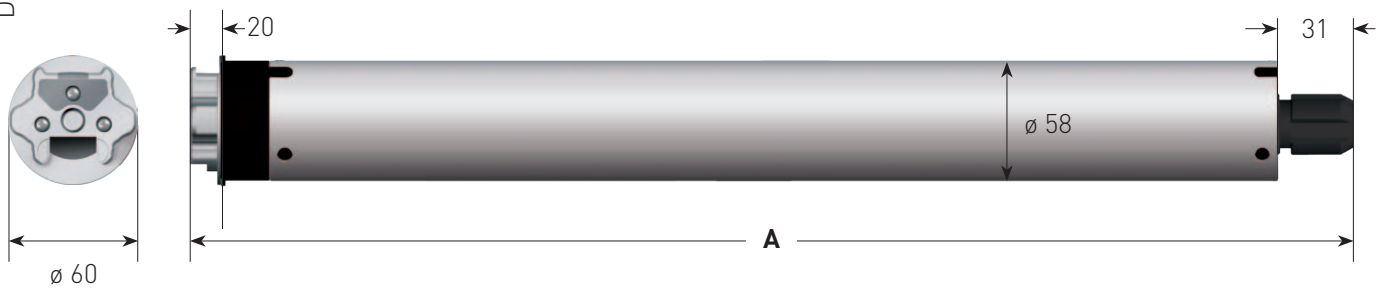


MAIN FEATURES

Models	XQ6EX8012 XQ6E8012 XQ6P8012	XQ6EX10012 XQ6E10012 XQ6P10012	XQ6EX12012 XQ6E12012 XQ6P12012
Torque	80 Nm	100 Nm	120 Nm
Speed	12 rpm	12 rpm	12 rpm
Power	400 W	440 W	440 W
Amps	1.80 A	2.0 A	2.0 A
Max turns (EX/E - P)	85 - 26	85 - 26	85 - 26

DIMENSIONS mm

Model	A	Model	A	Model	A
XQ6EX8012	745	XQ6EX10012	745	XQ6EX12012	745
XQ6E8012	745	XQ6E10012	745	XQ6E12012	745
XQ6P8012	695	XQ6P10012	695	XQ6P12012	695



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type EX)	868.30 MHz
Protection	IP44

WIRING

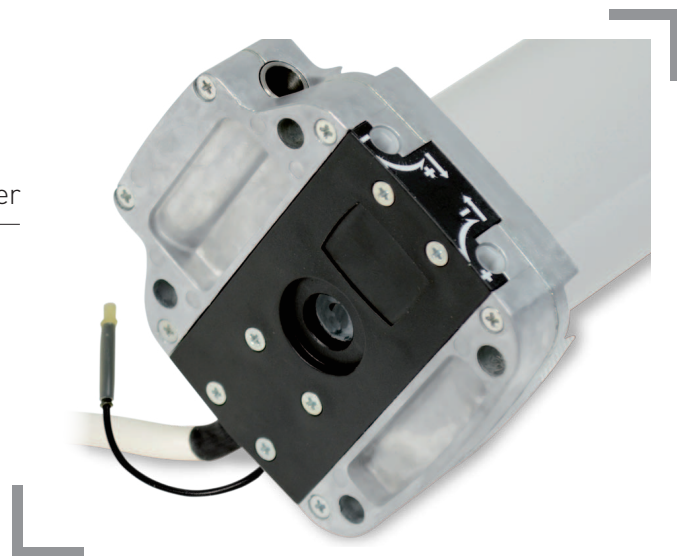
Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the E/P version only)



Manual override tubular motors for large awnings

**XQ6MX** Tubular motors with manual override and integrated receiver

**XQ6M** Tubular motors with manual override

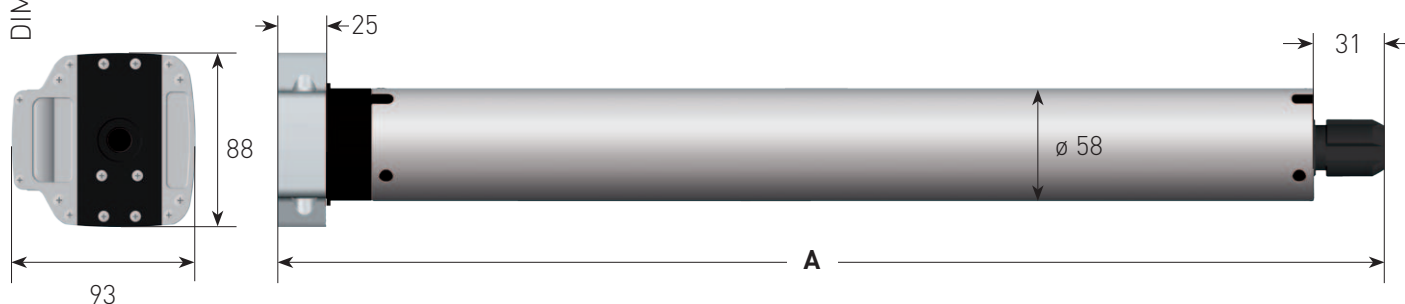


MAIN FEATURES

Models	XQ6MX8012 XQ6M8012	XQ6MX10012 XQ6M10012	XQ6MX12012 XQ6M12012
Torque	80 Nm	100 Nm	120 Nm
Speed	12 rpm	12 rpm	12 rpm
Power	400 W	440 W	440 W
Amps	1.80 A	2.0 A	2.0 A
Max turns	26	26	26

DIMENSIONS mm

Model	A	Model	A	Model	A
XQ6MX8012	905	XQ6MX10012	905	XQ6MX12012	905
XQ6M8012	745	XQ6M10012	745	XQ6M12012	745



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Radio frequency (type MX)	868.30 MHz
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black (in the M version only)







 **GAPOSA**



# ***GARAGE DOORS***

With a specific range of motors, Gaposa has adapted its regular manual override motors to the specific needs of the rolling garage door market. Available from 30 to 120Nm, these motors have a special end limit system.

**XQ**

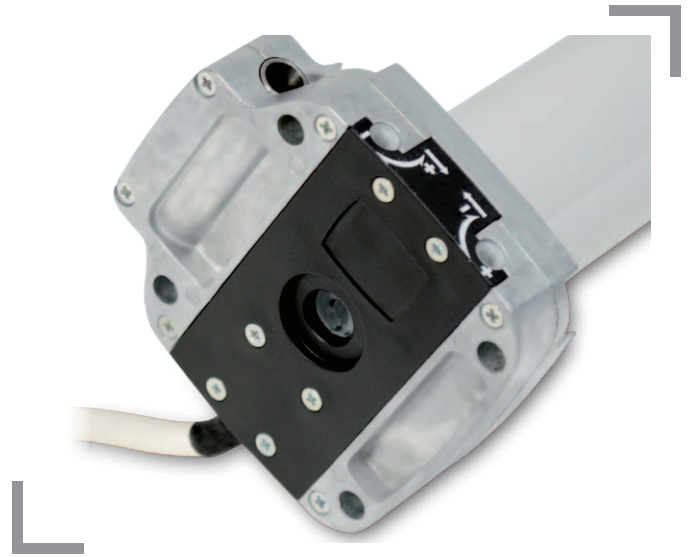




Manual override tubular motors  
for garage doors

## XQ5G

Mechanical limit switch

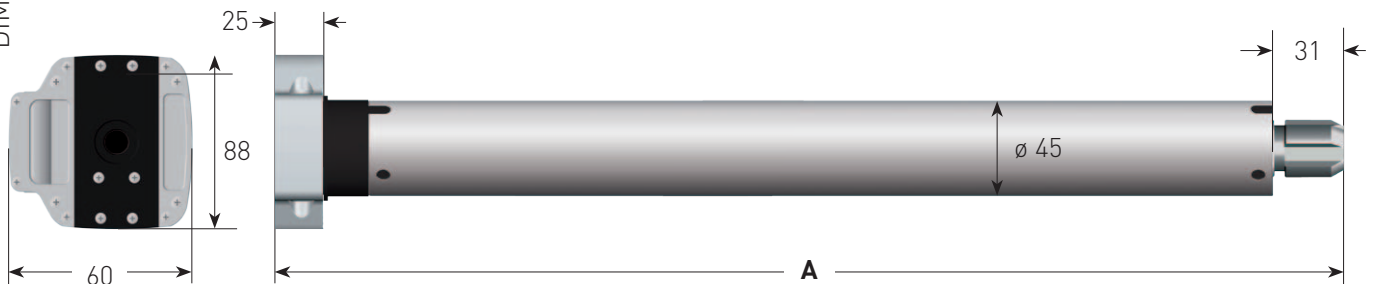


MAIN FEATURES

Models	XQ5G3017	XQ5G4017	XQ5G5014
Torque	30 Nm	40 Nm	50 Nm
Speed	17 rpm	17 rpm	14 rpm
Power	253 W	322 W	322 W
Amps	1.20 A	1.50 A	1.50 A
Max turns	14	14	14

DIMENSIONS mm

Model	A	Model	A	Model	A
XQ5G3017	602	XQ5G4017	607	XQ5G5014	607



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Protection	IP44

WIRING

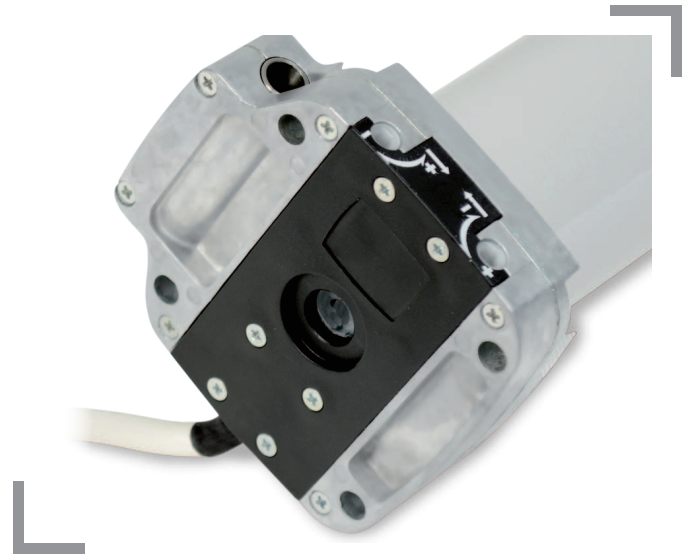
Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black





Manual override tubular motors for garage doors

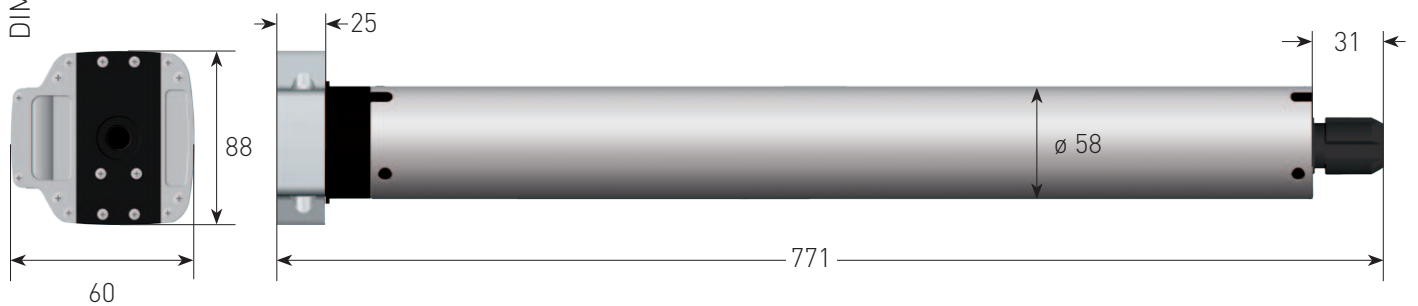
**XQ6G** Mechanical limit switch



MAIN FEATURES

Models	XQ6G8012	XQ6G10012	XQ6G12012
Torque	80 Nm	100 Nm	120 Nm
Speed	12 rpm	12 rpm	12 rpm
Power	400 W	440 W	440 W
Amps	1.80 A	2.0 A	2.0 A
Max turns	13	13	13

DIMENSIONS mm



TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Protection	IP44

WIRING

Standard cable length	2.5 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black



# AC TUBULAR MOTORS MAIN FEATURES



	XSXQ 40			XSXQ 50			XQ 60		
	XS4EX XQ4EX	XS4E XQ4E	XS4P XQ4P	XS5EX XQ5EX	XS5E XQ5E	XS5P XQ5P	XQ6EX	XQ6E	XQ6P
Up and down directions synchronized while setting the limits	■	■		■	■		■	■	
Noiseless soft brake	■	■	■	■	■	■	■	■	
Easy limit setting via an allen key			■			■			■
Easy limit setting via the setting button on the head					■			■	
Easy limit setting via radio	■			■			■		
868.30 MHz radio transmission	■			■			■		
Integrated antenna				■					
Wireless connection with climatic sensors	■			■			■		
Protection against limit overturning			■			■			■
Plug-in cable				■	■	■	■	■	■
Downwards high sensitive obstacle detection									
Reverse function when an obstacle is detected									
Overload protection upwards	■	■		■	■		■	■	
Smooth stop against the upper limit									
3 setting modes: automatic, Semi-automatic, manual									
Self-learning limit positions when set in automatic mode									
Auxiliary control cable for low power electrical devices									
Soft stop									
Fabric protection									
Long duty rating									
Special limit for garage doors									
Dual entry limit switches for easy access/ installation									
Operability in any circumstances via the manual override									
Override gear ratio 1:23									
Override gear ratio 1:55									
Strong head construction									



sense senseZIP				senseLAMENTE				AWNINGS			MANUAL OVERRIDE				GARAGE DOORS	
XQ4NX XQ4JX	XQ4N XQ4J	XQ5NX XQ5JX	XQ5N XQ5J	XQ4EX	XQ4E	XQ5EX	XQ5E	XQ5SX	XQ5S	XQ5DX	XQ5MX	XQ5M	XQ6MX	XQ6M	XQ5G	XQ6G
■	■	■	■	■	■	■	■	■	■	■						
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
											■	■	■	■	■	■
	■		■		■		■		■							
■		■		■		■		■		■						
■		■		■		■		■		■	■		■			
		■	■			■		■		■						
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		■	■			■	■	■	■	■						
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											■	■			■	
													■	■		■
											■	■	■	■	■	■

# AC TUBULAR MOTORS SELECTION TABLES



## Roller blinds, venetians, shades & home-theatre screens.

The table below shows the max. weight (Kg) each blind or screen can lift according to the rolling tube diameter.

Tube diameter (mm)	▶ 40	50	
	3 Nm	11	9
	6 Nm	21	17
	9 Nm (XQ)	31	25
	1 Nm	4	3
	3 Nm	11	9
	4 Nm	14	11

Tube diameter (mm)	▶ 50	60	70	
	5 Nm	14	12	10
	7 Nm	20	16	14
	10 Nm	28	24	20
	6 Nm	16	13	11
	9 Nm	24	19	16
	15 Nm	40	33	28

## Shutters and garage doors.

The table below shows the shutter max. weight (Kg) each motor can lift, according to the rolling tube diameter and the height of the shutter. All weights consider friction:

Tube diameter (mm)	▶ 40	45			50					
Max shutter height (m)	▶ 1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5	
	4 Nm	9	8	8	8	7	7	7	7	6
	5 Nm	11	10	10	10	9	9	9	8	8
	9 Nm	20	19	17	18	17	16	16	15	14
	12 Nm	26	25	23	23	22	21	21	20	19

Tube diameter (mm)	▶ 50	60			70			90					
Max shutter height (m)	▶ 1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5	
	6 Nm	14	12	9	11	10	8	10	8	7	8	6	5
	10 Nm	23	19	16	19	16	13	16	14	11	13	11	9
	20 Nm	46	38	31	38	32	26	33	27	22	25	21	17
	30 Nm	69	58	47	57	48	39	49	41	33	38	32	26
	40 Nm	91	77	62	76	64	52	65	55	44	51	43	34
	50 Nm	114	96	78	95	80	65	82	69	55	63	53	43

Tube diameter (mm)	▶ 70	90			102			133					
Max shutter height (m)	▶ 1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5	1.5	2.5	3.5	
	80 Nm	125	105	85	108	93	77	95	82	68	73	63	52
	100 Nm	156	131	106	135	116	96	119	102	85	91	78	65
	120 Nm	187	157	128	162	139	116	143	122	102	110	94	78



**Folding arm awnings.**

The table below shows the most suitable model according to the following awnings characteristics:

1. Arm thrust; 2. Number of arms; 3. Awning projection; 4. Roller tube diameter.









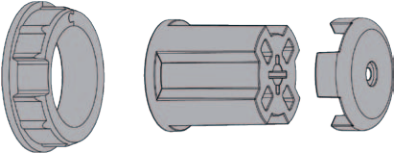
			<b>XQ50</b>					<b>XQ60</b>			
Awning projection	Tube diameter	Nr. of arms	20 Nm	25 Nm	30 Nm	35 Nm	40 Nm	50 Nm	80 Nm	100 Nm	120 Nm
up to 1.5 m	50 mm	2	■								
		4		■							
		6				■					
		8					■				
	63/70 mm	2			■						
		4			■						
		6					■				
		8						■			
	78 mm	2			■						
		4					■				
		6							■		
	85 mm	2									
4									■		
6									■		
up to 2 m	50 mm	2	■								
		4		■							
		6				■					
		8					■				
	63/70 mm	2			■	■					
		4				■					
		6						■			
	78 mm	4					■				
		6								■	
	85 mm	2									
		4									
		6								■	
up to 3.5 m	50 mm	2				■					
		4					■				
	63/70 mm	2					■				
		4						■			
	78 mm	2									
		4							■		
	85 mm	2								■	
		4								■	
6										■	
6										■	
up to 5 m	78 mm	2							■		
		4								■	
		6									■
	85 mm	2									■
		4									■
		4									■

# ADAPTERS AND BRACKETS



## ADAPTERS

### ■ DC30 range motors

Drive wheel	Crown adapter		Drive wheel	Crown adapter	
		Code: AX3.01P147 Tube: Round Benthin 29 Grooves			Code: AX3.01P148 Tube: Round Benthin 32 Grooves
		Code: AX3.01P137 Tube: Round Louvolite 40			Code: AX3.01P138 Tube: Round Rollease 38 Grooves
		AXRRF3 ADAPTOR FROM XSDC30 TO XS/XQ40 MOTOR CROWN			



## ■ 40 range motors

Drive wheel	Crown adapter		Drive wheel	Crown adapter	
		<i>Code:</i> AXRS440 <i>Tube:</i> Round Delfín 44x2 mm Grooves			<i>Code:</i> AXRS4015 <i>Tube:</i> Round 40x1.5 mm Grooves
		<i>Code:</i> AXRS40 <i>Tube:</i> Round 40x1 mm			<i>Code:</i> AXRS40S <i>Tube:</i> Oval 40x1 mm
		<i>Code:</i> AXRS448 <i>Tube:</i> Round 47x1 mm Grooves			<i>Code:</i> AXRS44 <i>Tube:</i> Round 44x1 mm
		<i>Code:</i> AXOS4 <i>Tube:</i> Octagonal 40 mm			<i>Code:</i> AXR05 <i>Tube:</i> Octagonal 50 mm + AXRRF4
		<i>Code:</i> AXRS47 <i>Tube:</i> Round 47x2 mm			<i>Code:</i> AXRS440.AD <i>Tube:</i> Benthin 44 mm
		<i>Code:</i> AXSFB <i>Tube:</i> Benthin 52 mm			<i>Code:</i> AXO6S <i>Tube:</i> 60 mm Octagonal
		<i>Code:</i> AXZF45 <i>Tube:</i> Zurfluh-Feller 45 mm			<i>Code:</i> AXRRF4 ADAPTOR FROM XQ40 TO XQ50 MOTOR CROWN

# ADAPTERS




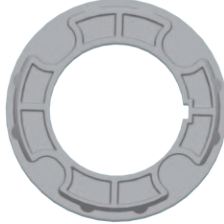



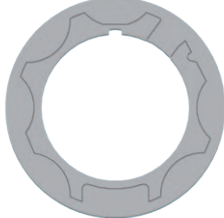

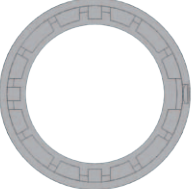

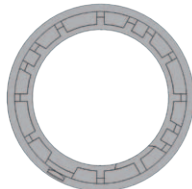

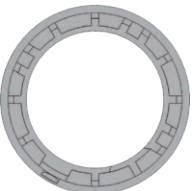

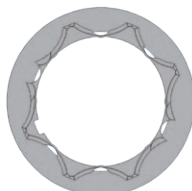







## ■ 50 range motors

Drive wheel	Crown adapter	Drive wheel	Crown adapter
	<p>Code: AXR50 Tube: Round 50X1.5 mm</p>		<p>Code: AXO67 Tube: Octagonal 70 mm + AXRRF</p>
	<p>Code: AXR60 Tube: Round 60X1.5 mm</p>		<p>Code: AXZF54 Tube: Zurfluh-Feller 54 mm</p>
	<p>Code: AXR70 Tube: Round 70X1.5 mm + AXRRF</p>		<p>Code: AXGS63 Tube: Welsner 63 mm</p>
	<p>Code: AXO5 Tube: Octagonal 50 mm</p>		<p>Code: AXO6 Tube: Octagonal 60 mm</p>
	<p>Code: AXZF64 Tube: Zurfluh-Feller 64 mm</p>		<p>Code: AXOS6 Tube: Octagonal starred 60 mm Grooves</p>
	<p>Code: AXG7 Tube: 70 mm Grooves</p>		<p>Code: AXG7BAT2 Tube: Round 70 mm</p>
	<p>Code: AXR58D.2 Tube: Round Delfin ø 53/58 mm Grooves</p>		<p>Code: AXD89 Tube: Round 89 mm + AXRRF</p>
















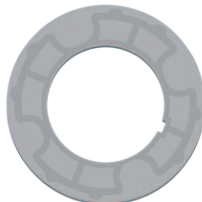




Drive wheel	Crown adapter		Drive wheel	Crown adapter	
		<i>Code:</i> AXD62 <i>Tube:</i> Deprat 62 mm			<i>Code:</i> AXGS78M <i>Tube:</i> 78 mm Grooves
		<i>Code:</i> AXD53 <i>Tube:</i> Deprat 53 mm Grooves			<i>Code:</i> AXGS85 <i>Tube:</i> 85 mm
		<i>Code:</i> AX06.SG <i>Tube:</i> Round 60 mm			<i>Code:</i> AXR50.WB <i>Tube:</i> Round 60 mm
		<i>Code:</i> AXR55.PR <i>Tube:</i> Round 60 mm			<i>Code:</i> AX06.FB <i>Tube:</i> Benthin
		<i>Code:</i> AXG7BAT1 <i>Tube:</i> Round 60 mm			<i>Code:</i> AXZF80 <i>Tube:</i> Round 80 mm
	<i>Code:</i> AXRRF ADAPTOR FROM XQ50 TO XQ60 MOTOR CROWN				

# ADAPTERS



## ■ sense & senseZIF range motors






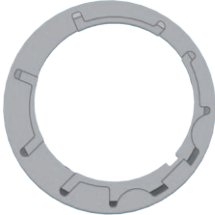

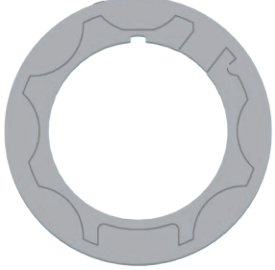







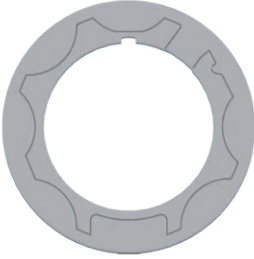


Drive wheel	Crown adapter		Drive wheel	Crown adapter	
		Code: AX0S4S Tube: 40 mm Octagonal			
		Code: AX06S Tube: 60 mm Octagonal			Code: AXZF64S Tube: 64 mm Round
		Code: AX067S Tube: 70 mm Octagonal			Code: AXZF54S Tube: 54 mm ZF
		Code: AXGS63S Tube: 63 mm Grooves			Code: AXGS78MS Tube: 78 mm Grooves
		Code: AXR55S Tube: 55 mm Round			

NOTE: by adding the reduction AXRRF4 the Sense adapters can work also with the Sense 40 range motors.

# ADAPTERS



## ■ 60 range motors

Drive wheel	Crown adapter	Drive wheel	Crown adapter
 <p>Code: AXR570 Tube: Round / 70X1.5 mm</p>		 <p>Code: AX57 Tube: Octagonal / 70 mm</p>	
 <p>Code: AXGS578 Tube: 78 mm Grooves / Zurfluh-Feller 80 mm</p>		 <p>Code: AXD589 Tube: DEPRAT / 89 mm</p>	
 <p>Code: AX5.01P076 Tube: 78 mm</p>		 <p>Code: AXGS585.EC Tube: Grooves / 85 mm</p>	
 <p>Code: AXZF580 Tube: 80 mm</p>		 <p>Code: AXGS585 Tube: with grooves / 85 mm</p>	
 <p>Code: AXR101 Tube: Round - 101/101.6X3.6 mm</p> <p>Code: AXR1012 Tube: Round - 101.6X2 mm</p>			

# BRACKETS



## ■ 40 range motors (from 3 Nm to 12 Nm)

Dimensions in mm.

<p>AXPR4</p>	<p>+ML11A056</p>	<p>AXPS</p>
<p>AXT45</p>		<p>AXQ4</p>

## ■ 50 range motors (from 4 Nm to 50 Nm)

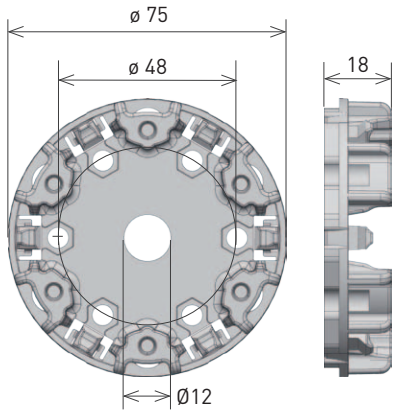
<p>AXNPSM</p>	<p>AXPS</p>	<p>AXQ</p>
<p>AXSR1</p>	<p>AXSV1</p>	<p>AXSR3</p>

# BRACKETS

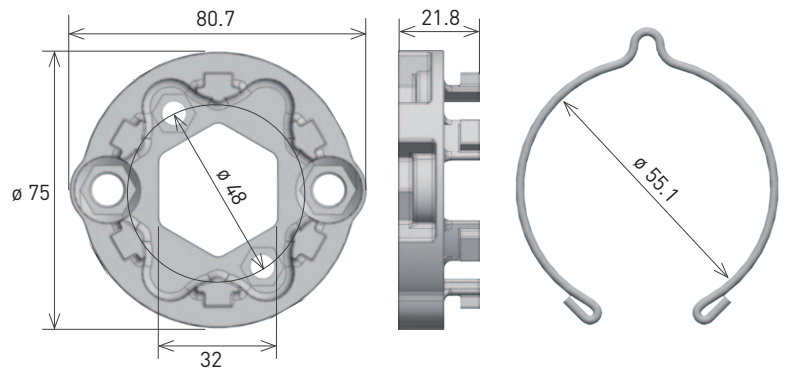


## ■ 50 range motors (from 4 Nm to 50 Nm)

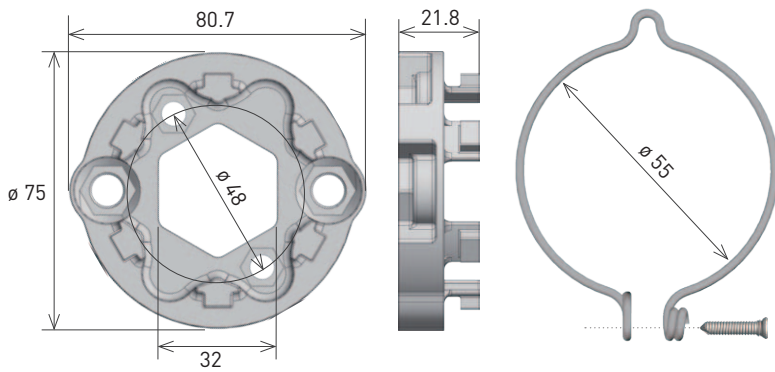
Dimensions in mm.



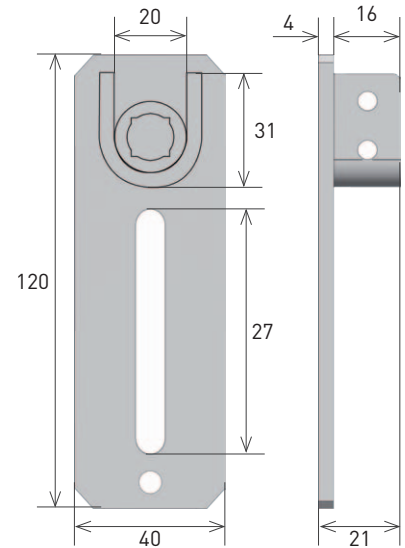
AXPR5 (max 25 Nm)



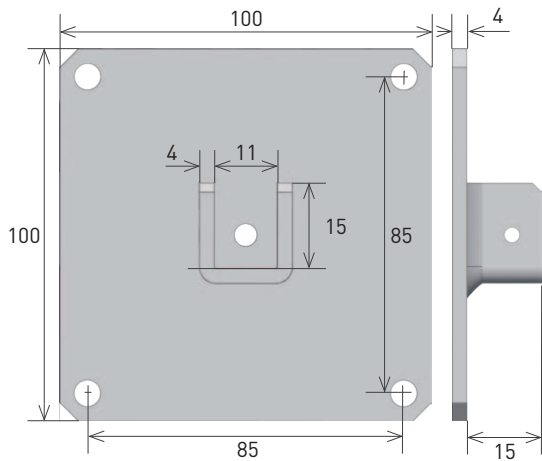
AXPR5Z



AXPR5ZS



AXQSP

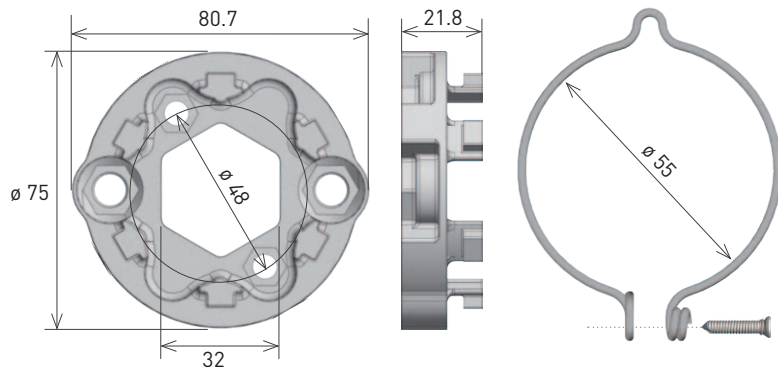


AXPSS

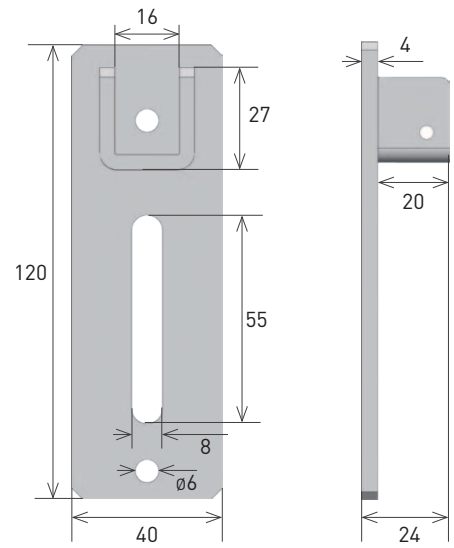


■ 60 range motors (from 60 Nm to 120 Nm)

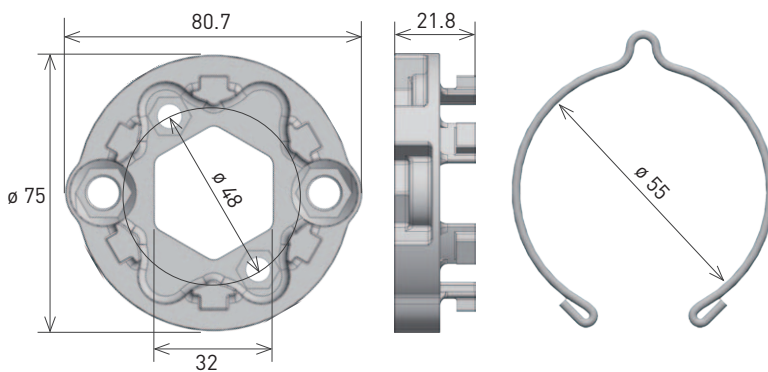
Dimensions in mm.



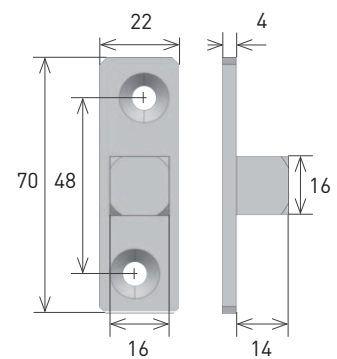
AXPR5ZS (max 80 Nm)



AX5SV1



AXPR5Z (max 80 Nm)



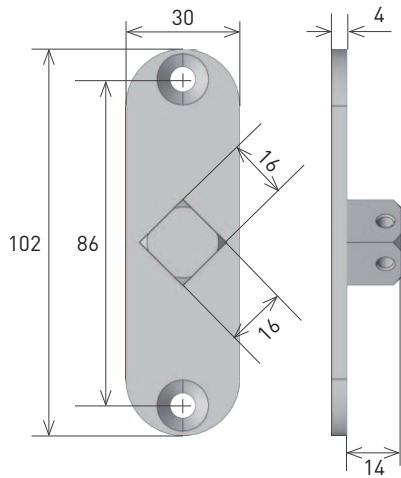
AX5EQ

# BRACKETS FOR MANUAL OVERRIDE

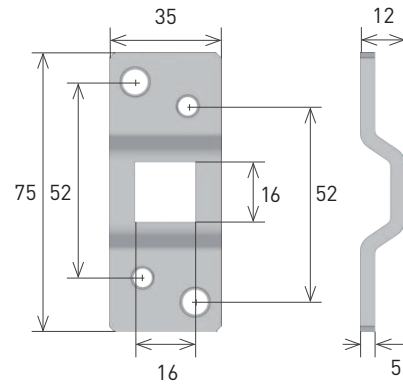


■ 50/60 range motors

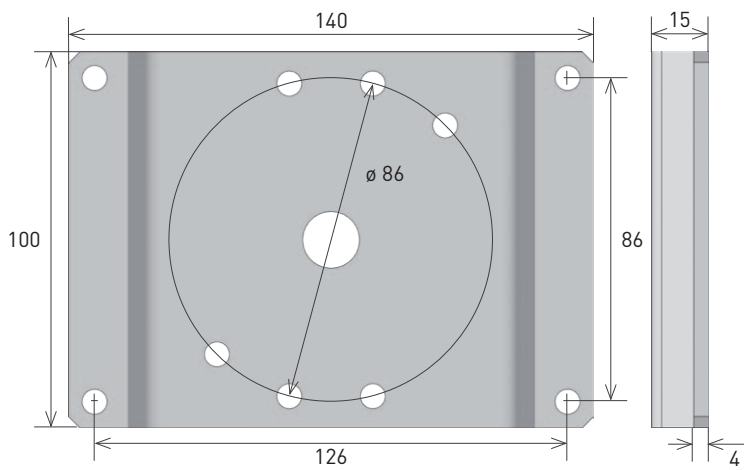
Dimensions in mm.



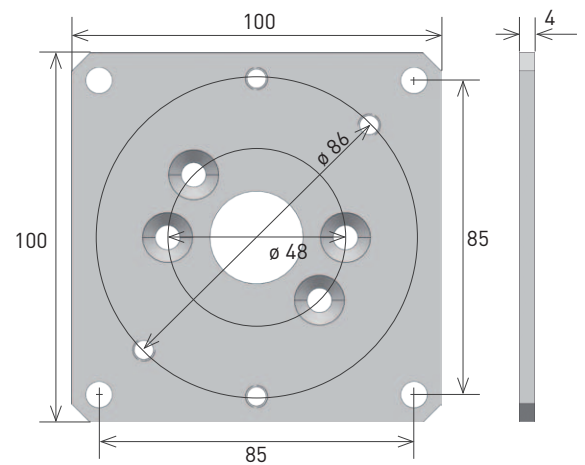
AXNPMQ45



AX5PS



AXNPMS

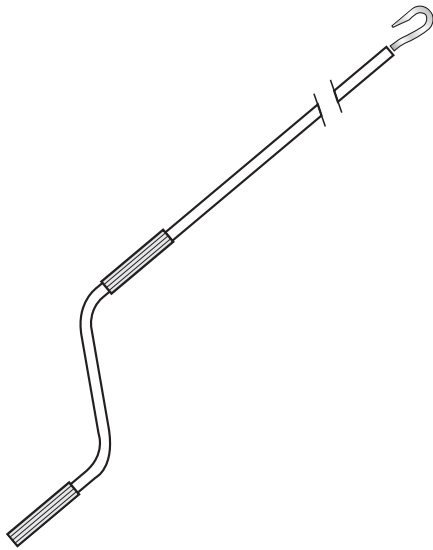


AXNPSM

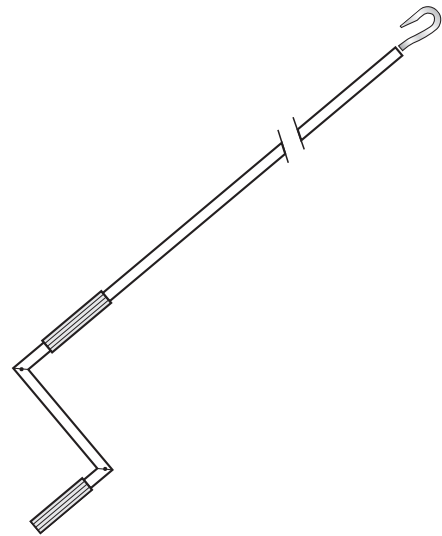
# ACCESSORIES FOR MANUAL OVERRIDE



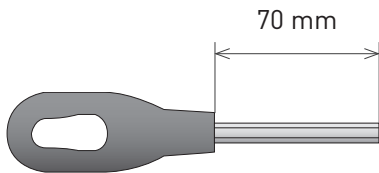
## ■ 50/60 range motors



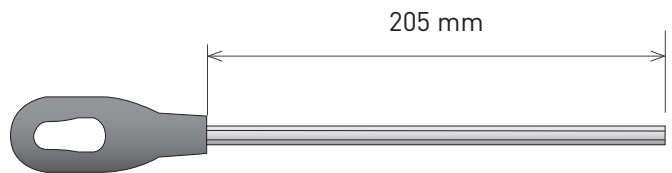
AXAFG150 (l. 150 cm)  
AXAFG200 (l. 200 cm)  
AXAFG250 (l. 250 cm)



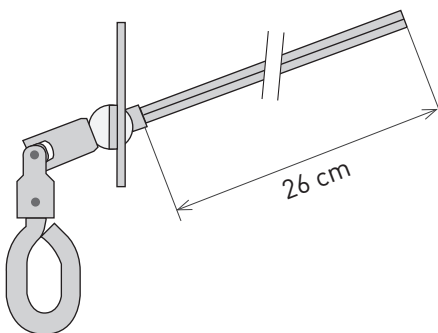
AXASG150 (l. 150 cm)



AXNOF



AXNOFL



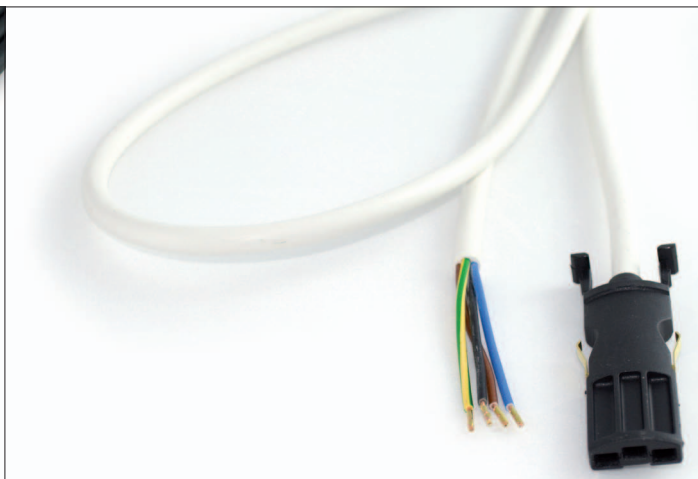
AXNOS45



# ADDITIONAL ACCESSORIES



AXSPITA.25GN (l. 2.5 m)  
AXSPITA.50GN (l. 5 m)



AXSPI.25 (l. 2.5 m)  
AXSPI.50 (l. 5 m)  
AXSPI.100 (l. 10 m)



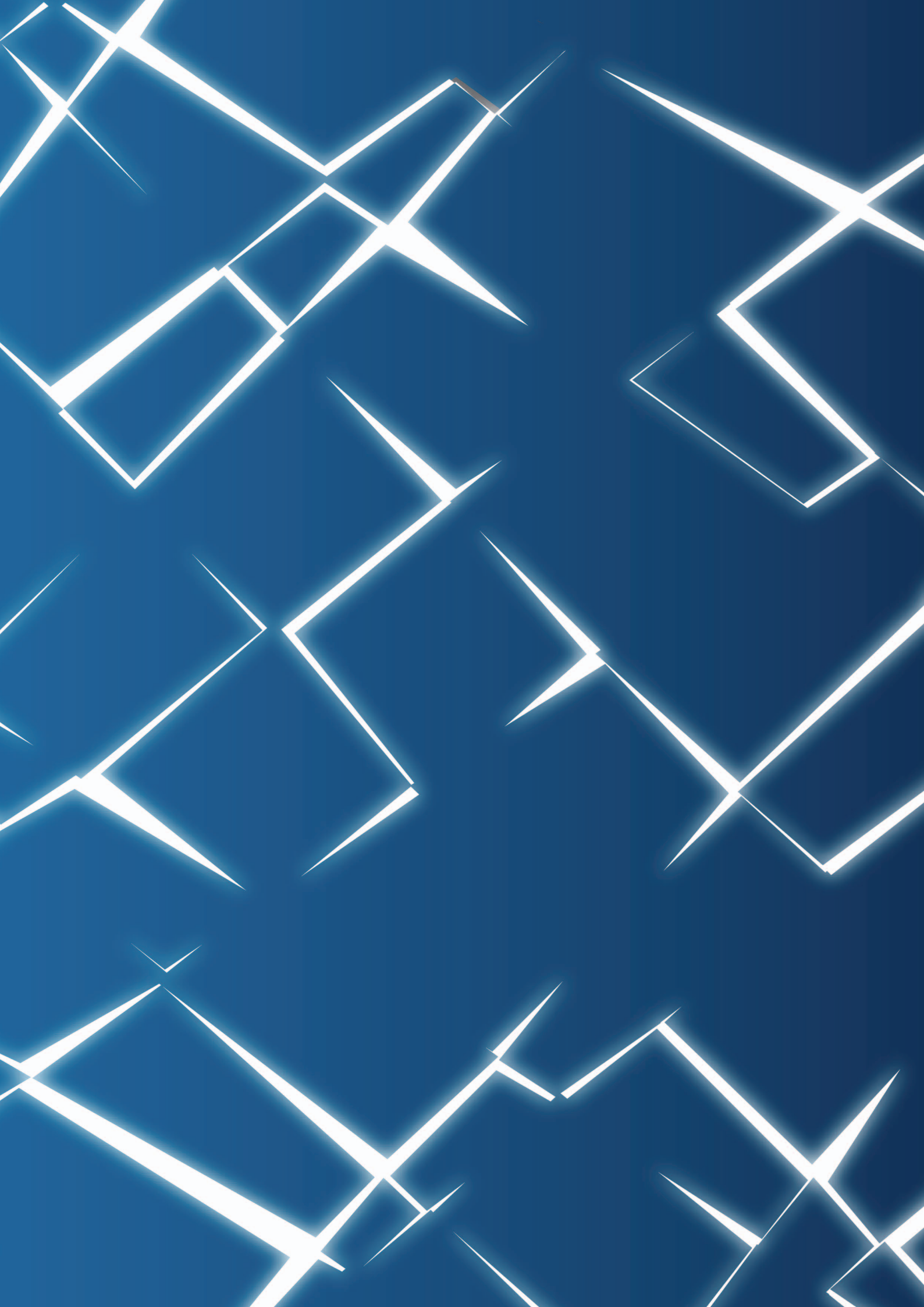
AXSPI.H03D



ACPRET Limit setting tool for electronic motors



AXRF





# CONTROLS AND DEVICES

# Home automation



## Features

- Control up to 32 different Gaposa motorized products from the app from anywhere you are.
- Create as many rooms as you want.
- Create up to 6 favorite rooms that can be easily accessed from the home screen.
- Easily control your shades from the room page with control for UP, STOP, DOWN, and PRESET position.
- Ability to also organize Gaposa motorized products into groups for group control.
- Groups can also be selected as favourites along with rooms (maximum 6).
- Set limits from the app.
- Synchronize motors with the app easily with no need for an existing remote.
- Set up to 10 schedules Each schedule can automate Up, Down, and Preset commands, and have them repeat every day of the week or none of them.
- Schedules can utilize your location to set your shades to go up or down with the sun.
- Schedules can be enabled or disabled so you can make a schedule for when you are away and disable it when you are home.
- Light and Dark Mode options to change the app background.



Available on:



# rollappX

Gaposa Hub

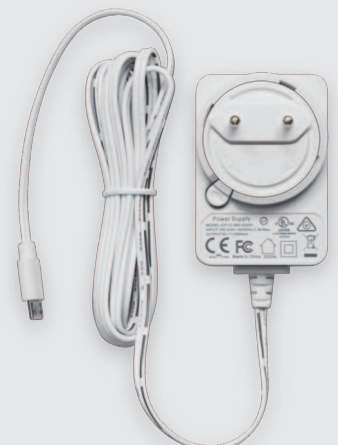


## Technical details

Hub Input Voltage	5V
Hub Input Power	0.3 A Max.
Frequency	868.30 MHz
Connection	Wi-Fi
Wi-Fi network	2.4 GHz only
Range	30 m
Protection Rate	IP20
Operation Temperature	0°C to 60°C
Dimensions	70 x 68 x 110 mm
Weight	80 g

## Switching power supply

Input: 100-240 VAC 50/60 Hz  
 Output: 5 VDC  
 Cable length: 300 cm  
 Dimensions: 40 x 68 x 33 mm





# Home automation interface

## linkIT

Home automation interface for control of GaposA radio motors and receivers

### Features

- RS232 communication protocol (cables available)
- Control4 driver available
- Individual or group control
- 16 or 24 individual channels
- Tilting mode
- Intermediate position
- LED for feedback
- Reset and programming buttons
- Cables available for easy connection

### Technical details

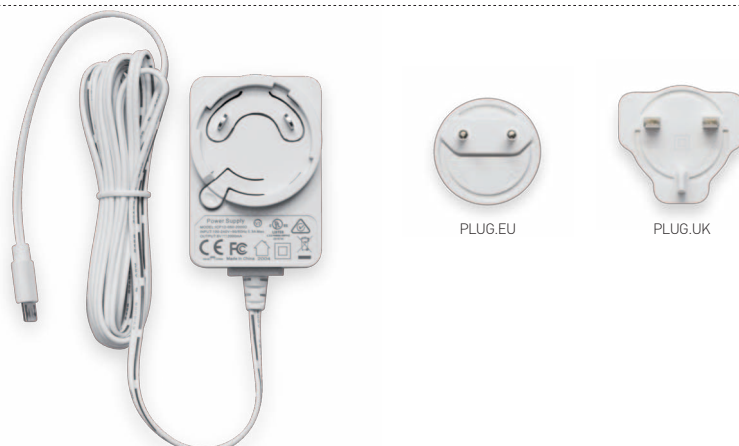
Hub Input Voltage	5V
Hub Input Power	0.3 A Max.
Frequency	868.30 MHz
Connection	Wi-Fi
Wi-Fi network	2.4 GHz only
Range	30 m
Protection Rate	IP20
Operation Temperature	0°C to 60°C
Dimensions	70 x 68 x 110 mm
Weight	80 g



### Switching power supply

Cod. **ALI5**

Input: 100-240 VAC 50/60 Hz  
 Output: 5 VDC  
 Cable length: 300 cm  
 Dimensions: 40 x 68 x 33 mm





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A large area of the page is filled with horizontal dotted lines, providing a guide for handwriting practice. The lines are evenly spaced and extend across the width of the page.



A collection of remote controls for interior window coverings and exterior solar protections. They are either single channel or 5 channels and each channel allows users to operate their motorized products. Each channel can control one individual motor or one group of motors.

- *Elegant look*
- *Slim ergonomic design*
- *Soft touch surface*



A discreet complement of your interior décor.  
Available in white (K), black (KB) and translucent (KT/KTB).

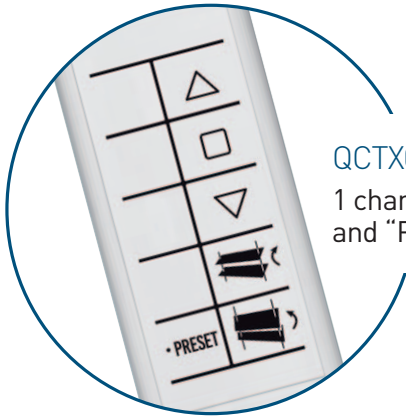




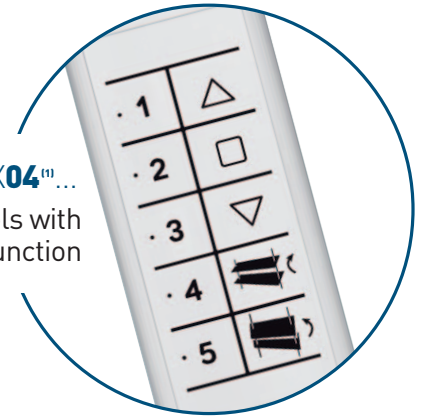
QCTX01...  
1 Channel



QCTX02...  
5 Channels with  
Preset/All pushbuttons



QCTX03...  
1 channel version with "Tilting" function  
and "Preset" pushbutton



QCTX04...  
5 Channels with  
"Tilting" function



QCTX05...  
3 channels sun  
sensors control

## Technical details

Channels	1 to 5
Frequency	868.30 MHz
Power supply	3V mod. CR2032
Battery life	2 years
Radiated power	<10 mW
Protection rate	IP40
Coverage (int/ext)	20 m / 200 m
Encoding	RC Gaposa
Working temperature	-5°C / +40°C

## Dimensions

41 x 183 mm



## Magnetic wall support (not included)



QCTB  
43 x 145 mm

<sup>[1]</sup>The tilting function is available with all AC motors up to 12 Nm and with DC motors DC XSDC3EX228/128/128L and XSDC3DX228/228L/128



## HANDHELD REMOTE CONTROLS

1 Channel

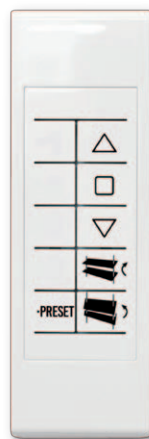


**QCTX01HS**

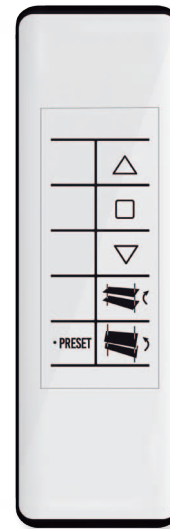


**QCTX01Y**

1 channel version with  
"Tilting" function and "Preset"  
pushbutton



**QCTX03HS**

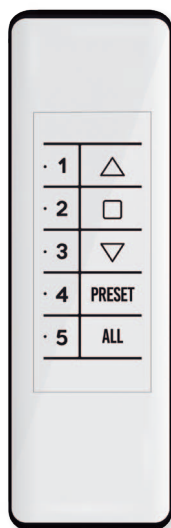


**QCTX03Y**

5 Channels with  
Preset/All pushbuttons

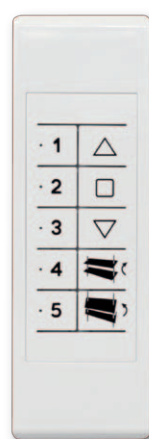


**QCTX02HS**

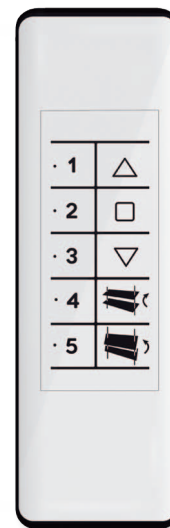


**QCTX02Y**

5 Channels with  
"Tilting" function<sup>(1)</sup>



**QCTX04HS**



**QCTX04Y**

<sup>(1)</sup>The tilting function is available with all AC motors up to 12 Nm and with DC motors DC XSDC3EX228/128/128L and XSDC3DX228/228L/128



3 channels sun sensors control



**QCTX05HS**



**QCTX05Y**

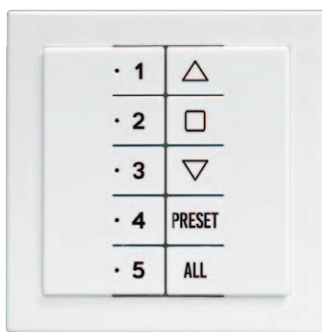
## WIRELESS WALL SWITCHES

1 Channel



**QCTX01M**

5 Channels with Preset/All pushbuttons



**QCTX02M**

3 channels sun sensors control

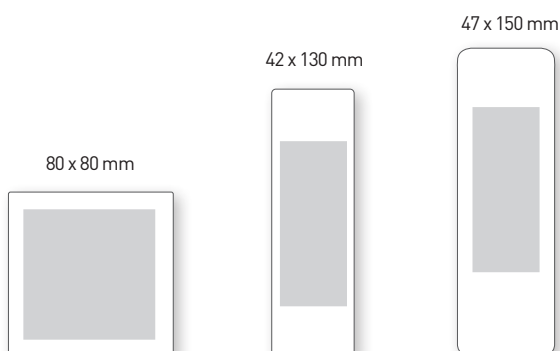


**QCTX05M**

## Technical details

Channels	1 to 5
Frequency	868.30 MHz
Power supply	3V mod. CR2032
Battery life	2 years
Radiated power	<10 mW
Protection rate	IP40
Coverage (int/ext)	20 m / 200 m
Encoding	RC Gaposá
Working temperature	-5°C / +40°C

## Dimensions



Note: Magnetic wall support (QCTB) is included in the "Y" models



### QCTXS

*QCTXS is a transmitter which allows activation/deactivation of the radio sun sensors through dedicated buttons.*

*It works with: QCWSSX and QCXSUN.*

### QCTXL

*QCTXL allows a dual control of the light in a room: it is a transmitter for the radio operated shutter/blind/awning and by additional buttons it switches the light ON/OFF.*

*It works with: QCXL receiver and DX motors.*

### Technical details

Frequency	868.30 MHz
Power supply	3V mod. CR2430
Battery life	2 years
Radiated power	<10 mW
Protection rate	IP40
Coverage (int/ext)	20 m / 200 m
Encoding	RC Gaposa
Working temperature	-5°C / +40°C
Dimensions	40 x 120 x 14 mm

### Table/wall support (included)

The *re-verso* is a "piece of art": a transparent bracket allowing the transmitter to stand on a table or to be fixed on the wall.



# EMITTO SMART16 Transmitters



Inspired by the elegant and modern design of the *Smart Line* range, the new transmitter *SMART16* is the latest addition of this product line. It can control up to 16 channels in a simple and user-friendly way, through its comfortable LCD display

## QCTX16SY / QCTX16Y

16 channel remote with LCD display

- 16 channels for individual control
- Possibility to create and control 8 custom groups in addition to all channels
- Hide the unused channels
- Magnetic wall mount bracket
- Timer functions (only for QCTX16SY)



**QCTX16SY**



**QCTX16Y**

### Technical details

Channels	16
Frequency	868.30 MHz
Power supply	3V - CR2450
Battery life	2 years
Radiated power	<10 mW
Protection rate	IP30
Coverage (int/ext)	20 / 200 m
Encoding	RC Gafosa
Working temperature	-5°C / +40°C

### Accessories



**QCTB**  
(included)  
Magnetic  
wall support



**CWR**  
(not included)  
Transparent  
protective shell (for  
all "Y" models)



## QCX09

Control unit for 1 phase motors



Compact radio control unit for awnings and shutters. It features an input for a cable switch button (sequential logic). It can be connected to a wind sensor allowing the selection of 5 different sensitivity levels. When set outdoors it is duly protected by a watertight IP55 box.

- Input for a control button with sequential logic
- Input for a wind sensor
- Remote control

### Main features

Power Supply (V~)	230 - 50 Hz ( $\pm 10\%$ )
Frequency (MHz)	868.30
Transmitting Power	<10 mW
Motor power (W)	500
Number of codes	31 x up-stop-down
Protection rate	IP55
Working temperature	-10°C /+60°C
Dimensions (mm)	133 x 50 x 25
Weight (g)	65

## QCXL

Control unit for lights



Radio control unit for incandescent lamps up to 1000 W (resistive load). It includes an input for an ON/OFF switch.

- Input for control button (sequential logic) ON/OFF
- Remote control

### Main features

Power Supply (V~)	230 - 50 Hz ( $\pm 10\%$ )
Frequency (MHz)	868.30
Transmitting Power	<10 mW
Lamps power (W)	1000 (resistive load)
Protection rate	IP55
Working temperature	-10°C /+60°C
Dimensions (mm)	133 x 50 x 25
Weight (g)	65



## QCXTAG

Control unit for 1 phase motors



Mini-control unit for the remote control of motors. It fits in only 57 mm diameter slots. It is ideal to be integrated with Gaposos motors, climatic sensors and the *RollApp* smart home system.

## QCXTAK

Control unit for lights



Mini-control unit for the remote control of motors and lights. It fits in only 57 mm diameter slots. It is ideal to be integrated with Gaposos motors, climatic sensors and the *RollApp* smart home system.

### Main features

Power Supply (V~)	230 - 50 Hz ( $\pm 10\%$ )
Frequency (MHz)	868.30
Transmitting Power	<10 mW
Motor power (W)	500
Number of codes	31 x up-stop-down
Protection rate	IP20
Working temperature	-10°C /+60°C
Dimensions (mm)	$\varnothing 57 \times 27$
Weight (g)	65

### Main features

Power Supply (V~)	230 - 50 Hz ( $\pm 10\%$ )
Frequency (MHz)	868.30
Transmitting Power	<10 mW
Lamps power (W)	1000 (resistive load)
Protection rate	IP20
Working temperature	-10°C /+60°C
Dimensions (mm)	$\varnothing 57 \times 27$
Weight (g)	65

## RIP868

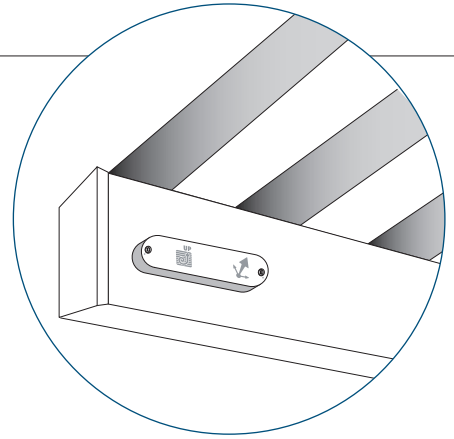
Repeater for Gaposos radio devices



The repeater allows the radio signal of the Gaposos radio devices to be extended.

### Main features

Power Supply (V~)	230 - 50 Hz ( $\pm 10\%$ )
Frequency (MHz)	868.30
Transmitting Power	<10 mW
Coverage (int/ext)	20 m / 200 m
Protection rate	IP54
Working temperature	-10°C /+60°C
Dimensions (mm)	270 x 120 x 90

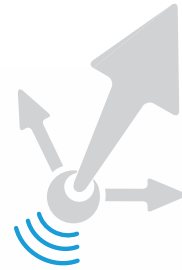
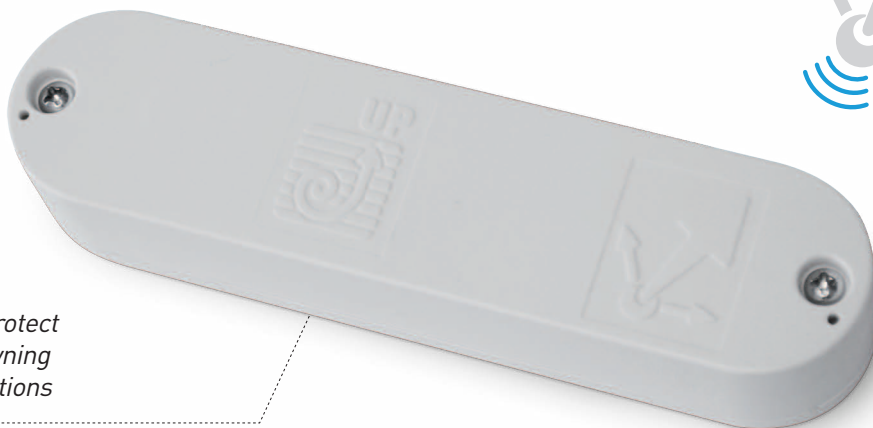


## QCMSX

### Motion sensor

The QCMSX motion sensor is a wireless, battery powered wind sensor which provides protection by detecting wind generated movements and then retracting the awning.

QCMSX awning motion sensor is compatible with all the GaposA radio motors and controllers.



*Designed to protect retractable awning in windy conditions*

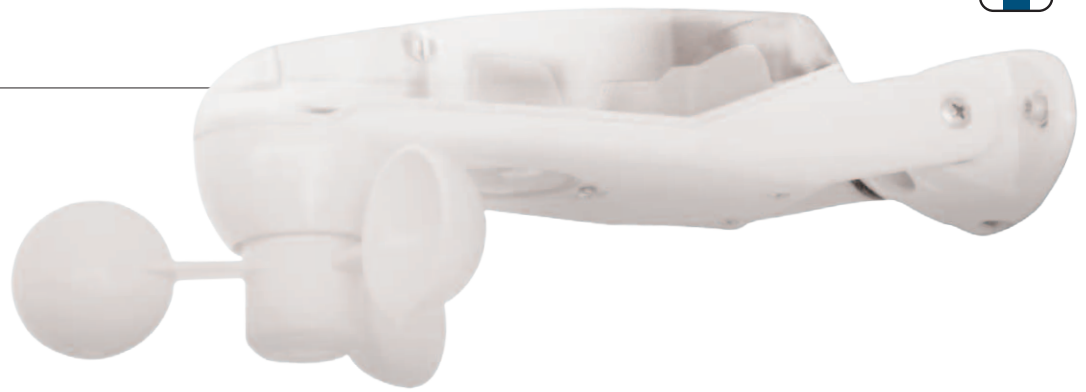
## Features

- Easy to program
- Simple installation
- Suitable for fitting to the awning terminal bar
- 9x levels of sensitivity
- Low battery warning
- Maintenance-free

## Technical details

<b>Voltage</b>	2 x 1,5V AAA batteries
<b>Frequency</b>	868.30 MHz
<b>Transmitting Power</b>	<10 mW
<b>Transmission Distance</b>	up to 100 meters (open space)
<b>Encoding</b>	RC GaposA
<b>Working temperature</b>	-5°C / +40°C
<b>Dimensions</b>	150 x 37 x 20 mm
<b>Weight</b>	55 g





## QCWSSX

Radio operated sun wind sensor

QCWSSX allows a wireless communication with Gaposa radio motors.

It performs a:

**wind protection function:** the patio awning or the exterior roller shade will automatically retract when wind exceeds a preset speed value.

**sunshade function:** the sun sensor will extend or retract the awning depending on light intensity based on a complex algorithm.

- Protection rate IP54
- $\pm 90^\circ$  adjustment
- Bearings in ceramics
- 4 light/5 wind sensitivity levels
- Control of the sun sensor through dedicated transmitters

## QCWSX

Radio operated wind sensor

## QC4WSX

Radio wind sensor dedicated to **AUTONOMO** solar motors and 40 series motors (AC and DC).

QCWSX/QC4WSX allows a wireless communication with Gaposa radio motors.

It performs a:

**wind protection function:** the patio awning or the exterior roller shade will automatically retract when wind exceeds a preset speed value.

- Protection rate IP54
- $\pm 90^\circ$  adjustment
- Bearings in ceramics
- 5 wind sensitivity levels

## QCWS

Wired wind sensor

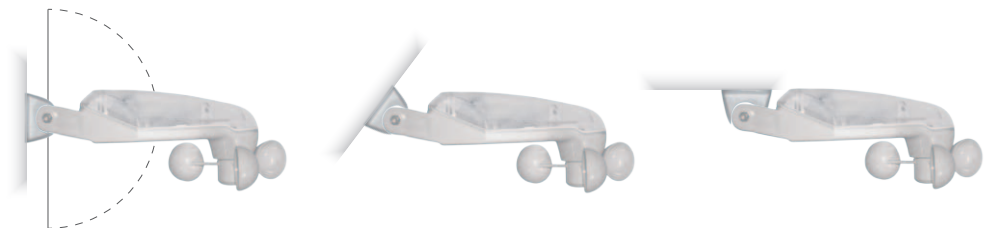
QCWS has a direct connection with the radio motors through 2 wires.

It performs a:

**wind protection function:** the patio awning or the exterior roller shade will automatically retract when wind exceeds a preset speed value.

- Protection rate IP54
- $\pm 90^\circ$  adjustment
- Bearings in ceramics
- 5 wind sensitivity levels

$\pm 90^\circ$  adjustment



## Technical details

Power supply	230Vac 50 Hz
Frequency	868.30 MHz (QCWSSX / QCWSX / QC4WSX)
Transmitting Power	<10 mW
Sun sensor (4 levels)	5 / 20 / 40 / 60 Klux (QCWSSX)
Coverage (int/ext)	20 m / 200 m (QCWSSX / QCWSX / QC4WSX)
Wind sensor (5 levels)	10 / 20 / 30 / 40 / 50 Km/h
Protection rate	IP54
Working temperature	-5°C / +40°C
Dimensions	270 x 120 x 90 mm



# Control units

## QC201

Automatic control panel with courtesy light



## Features

- Operating logic: semiautomatic, automatic, dead-man (only for closing)
- Manual control with integrated buttons in the front cover
- Remote control
- Safety devices:
  - Safety beams (active also for opening)
  - Optoelectronic safety edge
- Pause timer and automatic closing
- Courtesy light
- Adjustable working time, from 5 seconds to 4 minutes

## Technical details

Power supply / Max Motor power	230Vac $\pm$ 10% - 50Hz (singlephase) / 800 W		
Exit 24V~	terminals 11 - 12, MIN 20 VAC, MAX 26.5 V~		
Exit 12Vcc	terminals 9 (+) - 3 (GND), MIN 9.5V, MAX 12.5 V		
AUX exit	terminals 13 - 14, 250V - 2A, resistive load		
Protection fuse	4A (delayed)		
Frequency	433.92 MHz		
Protection rate	IP54		
Working temperature	-10°C / +50°C		
Dimensions	140 x 230 x 70 mm		
Maximum current (12V <sub>cc</sub> / 24V~)	Loading condition	24V~	12Vcc
	Case 1	0mA	50mA
	Case 2	<b>70mA</b>	<b>40mA</b>
	Case 3	140mA	10mA



# Radio control units (dry contacts)

## QCTX3SD

Dry contact panel – 1 channel



This panel with integrated transmitter enables to interface a radio motor or a network of radio motors with a home automation system. In this way, the home automation system controls the radio motor(s) through the UP/STOP/DOWN signals.

The setting of the QCTX3SD panel with the radio motor is accomplished via any standard GAPOSA transmitter.

### Technical details

Power Supply (V~)	230 - 50 Hz (±10%)
Frequency (MHz)	868.30
Transmitting Power	<10 mW
Fuse (mA)	315
Protection rate	IP44
Coverage (int/ext)	20 m / 200 m
Working temperature	-10°C / +60°C
Dimensions (mm)	125 x 125 x 60
Weight (g)	300

## QCTX36SD

Dry contact panel – 6 channels



This panel with integrated transmitter enables to interface a network of radio motors with a home automation system. In this way the home automation system controls the radio motors through the UP/STOP/DOWN signals.

The setting of the QCTX36SD panel with the radio motors is accomplished via any standard GAPOSA transmitter.

### Technical details

Power Supply (V~)	230 - 50 Hz (±10%)
Frequency (MHz)	868.30
Transmitting Power	<10 mW
Fuse (mA)	315
Protection rate	IP44
Coverage (int/ext)	20 m / 200 m
Working temperature	-10°C / +60°C
Dimensions (mm)	190 x 225 x 88
Weight (g)	2450



# Group control relays

## QCM2K

Mechanical relay for group control

QCM2K is a mechanical relay to connect a network of motors in various combinations: it is small enough to fit behind a switch and one single relay can connect two switches to one motor. A network of relays will organize multiple motorized products in groups, subgroups with or without a priority switch and individual control. The QCM2K works as a dead man relay and can be connected to the complete family of Gaposá relays. Easy to install and wire, the QCM2K is a simple module for a complex system.



### Technical details

Power supply	230 V~ - 50/60 Hz
Output	6 A
Motor connectios	1
Working temperature	0°C / +60°C
Dimensions	52 x 49 x 22
Weight	55 g

## QCM2K-D

Mechanical relay for group control

QCM2K is a mechanical relay to connect a network of motors in various combinations: especially designed for DIN rails, it can control 2 motors with 2 individual controls. A network of relays will organize multiple motorized products in groups, subgroups with or without a priority switch and individual control. The QCM2K-D works as a dead man relay and can be connected to the complete family of Gaposá relays. Easy to install and wire, the QCM2K is a simple module for a complex system.



### Technical details

Power supply	230 V~ - 50/60 Hz
Output	3 A
Motor connectios	2
Working temperature	0°C / +60°C
Dimensions	64 x 90 x 36
Weight	55 g



# Group control relays

## QCK1MC

Electronic relay for group control

QCK1MC is an electronic relay to connect a network of motors in various combinations. Perfect for blinds or roller shutters, it can also control venetian blinds with its tilting function after pressing the button. A network of QCK2MC will organize multiple motorized products in groups, subgroups with or without individual control. The operational logic of the relay gives priority to the main switch over the individual one and to the UP command over the DOWN one. QCK1MC has an electric inter-lock forbidding power supply to both directions.



### Technical details

Power supply	230 V~ - 50/60 Hz
Absorption	10 A
Motor connections	1
Working time	120 s
Working temperature	0°C / +60°C
Dimensions	43 x 43 x 20 mm
Weight	50 g

## QCK2H

Day timer for tubular motor

The QCK2H is intended exclusively for the control of roller shutters and roller blinds as a control system integrating a daily clock with a display screen. The QCK2H must always be powered on to maintain its programming: in the event of a power failure, the existing programming is kept for 2 minutes to compensate the interruption in the electrical network. It can be used as an individual control or as a group control for several motorized products.



### Technical details

Power supply	230 V~ - 50/60 Hz
Absorption	3 A
Motor connections	1
Working time	180 s
Memory after power cut	4 h
Working temperature	0°C / +60°C
Dimensions	80 x 80 x 42
Weight	250 g



## ACPPE

2 momentary buttons switch

ACPPE is a momentary switch for the control of one motor<sup>(1)</sup>.

- Electrical blockade against two occasional simultaneous orders.



55.3x65x26.6 mm

## ACPPEF

2 maintained push-buttons

ACPPEF is a maintained push-button for the control of one motor<sup>(1)</sup>.

- Electrical and mechanical blockade against two occasional simultaneous orders.
- Toggles automatically one rocker when the other is pressed.



55.3x65x26.6 mm

## ACPEGS

2 momentary buttons switch

ACPEGS is a momentary switch for the control of one motor<sup>(1)</sup>. It can be installed both in a flush-mounted box or with a wall-plate.

- Electrical blockade against two occasional simultaneous orders.



87.5x82.5 mm

## ACPEFGS

2 maintained buttons switch

ACPEFGS is a maintained switch for the control of one motor<sup>(1)</sup>. It can be installed both in a flush-mounted box or with a wall-plate.

- Electrical and mechanical blockade against two occasional simultaneous orders.
- Toggles automatically one rocker when the other is pressed.

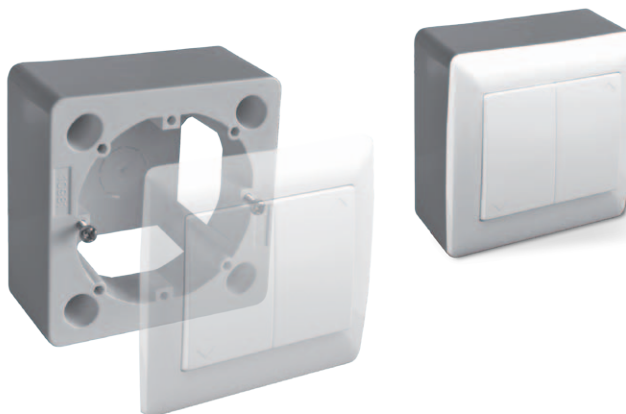


87.5x82.5 mm

<sup>(1)</sup> For connection of more than one motor on the same switch button the QCK1M or QCM2K group control module is required.

## ACPEGS

Surface mounting box for ACPEGS/ACPEFGS



80x80x37 mm



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A large area of the page is filled with horizontal dotted lines, providing a guide for handwriting practice. The lines are evenly spaced and extend across the width of the page.



Camiceria  
49

SHOP  
TAX



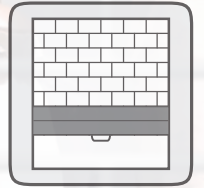
G T DGE

CAP

39







# COMMERCIAL SHUTTERS

Gaposa offers two different solutions for the automation of commercial shutters:

- SPLIT.** A range of light and easy to install motors, to be used with spring balanced shutters.
- XQ80.** The strong and powerful tubular motors range, an ideal solution for a space-saving rolling up.

**SPLIT**

**XQ 80**





# SPLIT

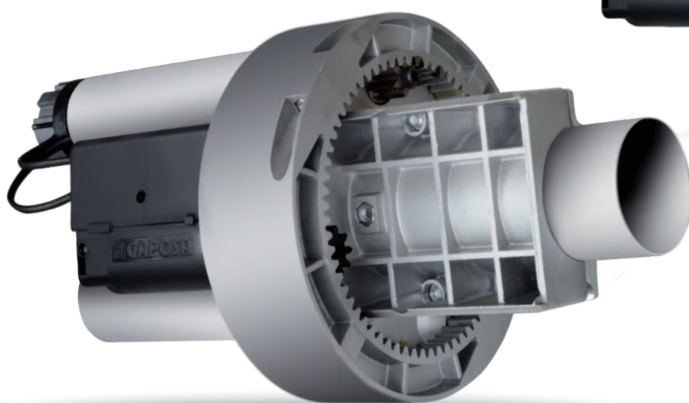
The SPLIT motor is irreversible when it is provided with an electromagnetic brake. A declutch device is always supplied together with the brake.

SQ14010S  
SQ16010S  
SQ1909S  
SQ2709SE

## Optional

**E** with electromagnetic brake.  
Code:

**EF50** 5 m cable  
**EF60** 6 m cable  
**SBLPE** declutch device



## ADDITIONAL DETAILS

### European directives

Split is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### Duty rating

The Split is a single phase motor so its daily use is limited. It is perfect for garage doors and shop fronts, rolling shutters or grills while it is not recommended for doors requiring an intensive use such as parking entries.

### Overload safety factor

Motor overload safety factor = 2 x the nominal motor amperage because the starting current of the Split can reach these levels for short periods.

### Output speed

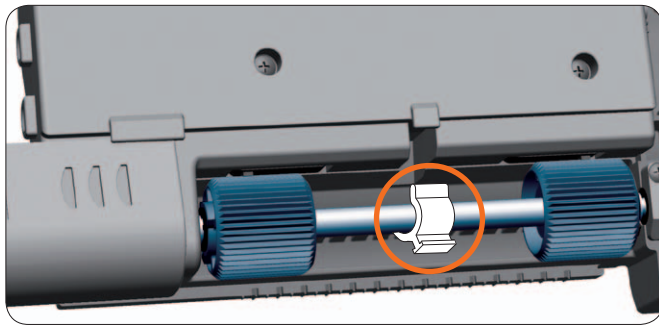
The maximum admissible speed depends on the construction and type of door. The admissible closing speed shall be tuned in order to allow the operating forces to comply with EN 12453.

### Manual operation

The Split without brake is a reversible motor so any manual operation of the door is possible by direct raising or lowering the door manually. The door must be well counter-balanced. The Split motor with brake is irreversible so the manual operation is only possible after declutching the electromagnetic brake. In both types of motors a spring safety brake is required. The counter-balancing system should be inspected at least once a years.

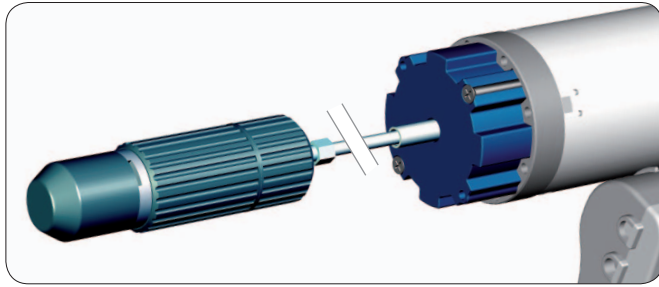


LIMIT SWITCH



Easy top limit setting with clip

OPTIONAL

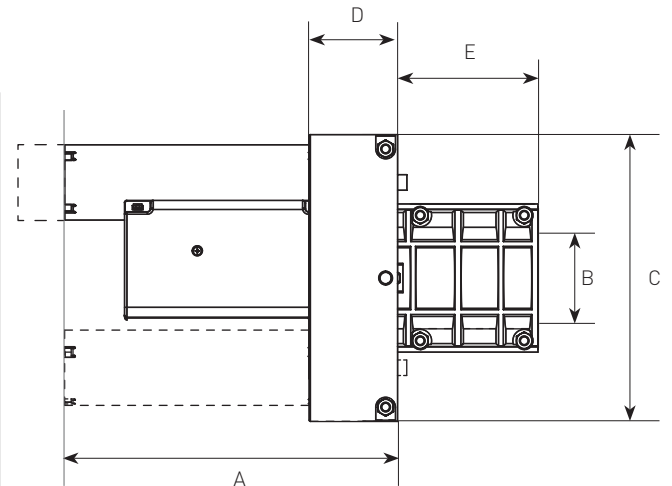
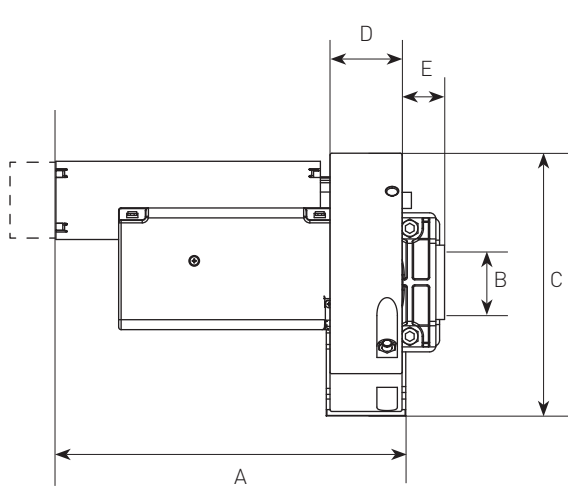


Electromagnetic brake with declutch device

TECHNICAL DETAILS

	SQ14010S	SQ16010S	SQ1909S	SQ2709SE
Torque (Nm)	140	160	190	270
Power Supply (V)	230	230	230	230
Frequency (Hz)	50	50	50	50
Absorption (A)	1.9	2.0	2.0	3
Power (W)	390	450	495	670
Protection Rate (IP)	42	42	42	42
Duty Rating (Min)	4	4	4	4
Output Speed (rpm)	10	10	9	9
Limit Switch Max. Turns	8	8	7	7
Weight (Kg)	6.2	7	9.2	12

DIMENSIONS mm



SEGMENT	SQ14010S / SQ16010S	SQ1909S / SQ2709SE
A	285 [361 Ver. <b>E</b> ]	279 [355 Ver. <b>E</b> ]
B	60 [48 with collars]	76
C	200 [220 with extension wheel]	240
D	58	74
E	23	117





*Tubular motors for rolling doors and large shutters: robust, powerful and silent for advanced and long lasting performances.*

## XQ8P

Tubular motors

## XQ8M

Tubular motors with manual override



### MAIN FEATURES

Models	XQ8P15012 XQ8M15012	XQ8P2508 XQ8M2508
Torque	150 Nm	250 Nm
Speed	12 rpm	8 rpm
Power	800 W	820 W
Absorption	3.65 A	3.75 A
Limit switch max turns	18	18

### TECHNICAL DATA

Power Supply	230 VAC / 50 Hz
Working temperature	-10°C / +40°C
Duty rating	4 min
Protection	IP44

### WIRING

Standard cable length	4 m
	0.75 mm <sup>2</sup> Blue - Neutral
	0.75 mm <sup>2</sup> Yellow/Green - Ground
	0.75 mm <sup>2</sup> Brown
	0.75 mm <sup>2</sup> Black

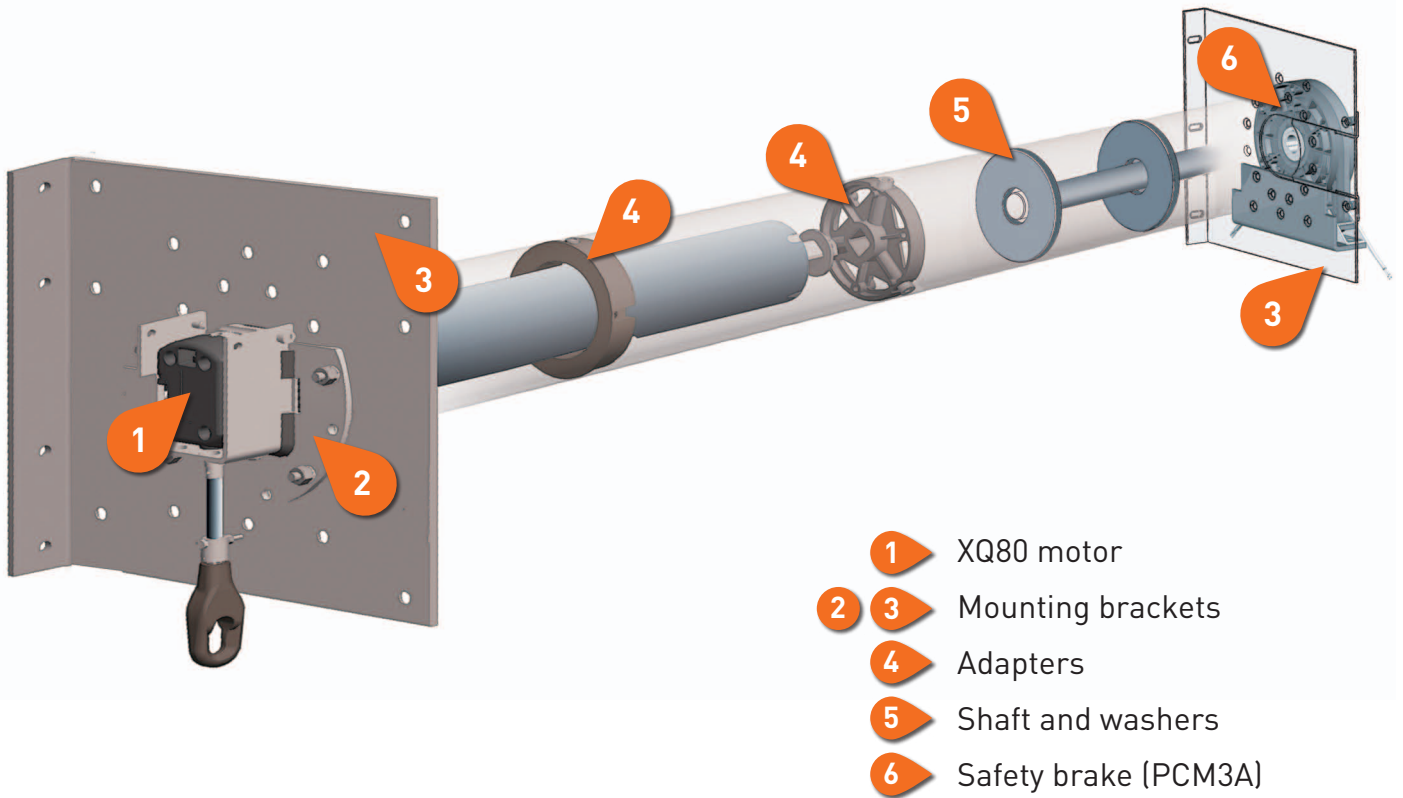
### SELECTION TABLE

∅ Tube x thickness (mm) ▶	101.6 x 3.6			133 x 4			159 x 4.5			168 x 4.5		
Shutter's height (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7
Max shutter's weight (Kg)												
<b>XQ8P15012 / XQ8M15012</b>	175	153	135	159	141	129	146	134	124	139	131	121
<b>XQ8P2508 / XQ8M2508</b>	292	254	225	265	235	216	243	223	207	231	218	202

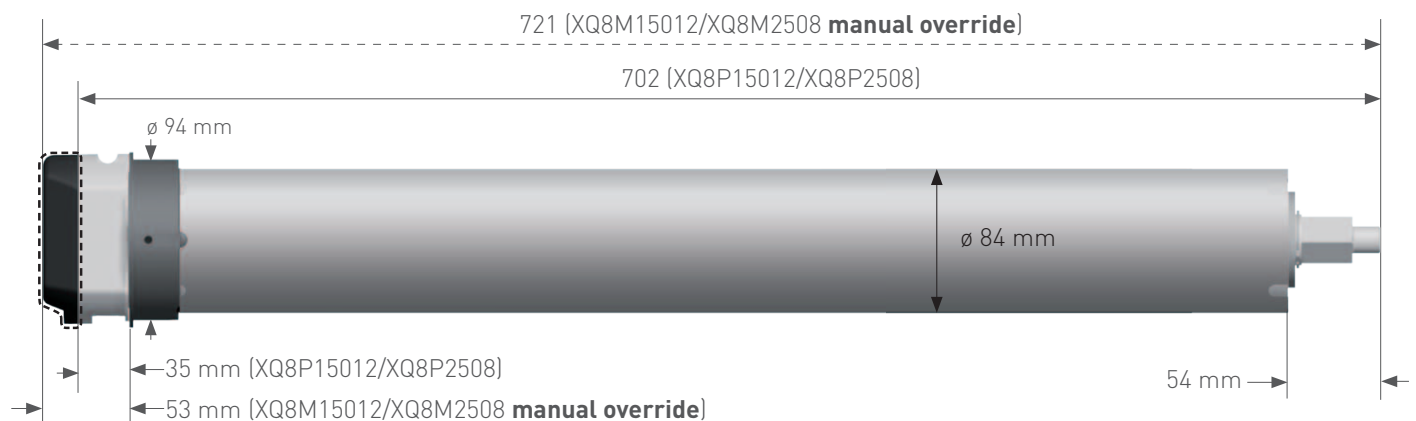
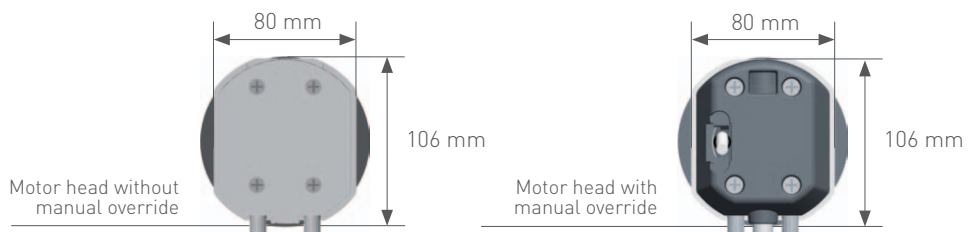


## BASIC DIAGRAMS

Along with motors and adapters, GAPOSA offers a wide range of brackets, safety brakes and self-aligning end-caps: the most complete system solution.










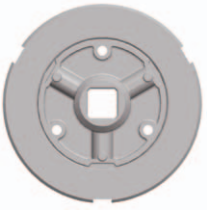





DIMENSIONS  
mm



# ADAPTERS

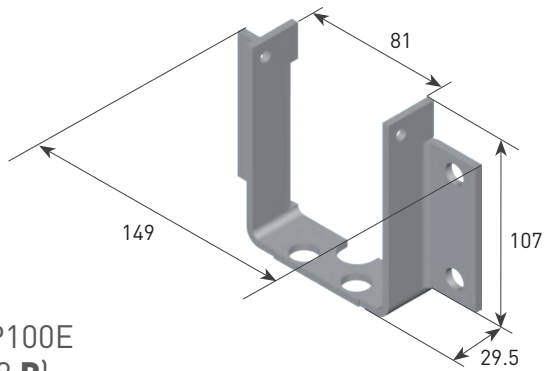
Dimensions in mm



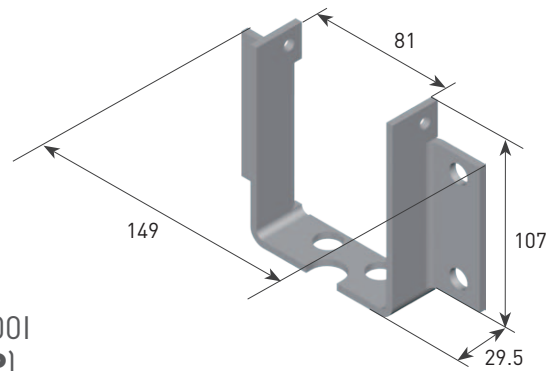
Drive wheel	Crown adapter	Drive wheel	Crown adapter
			
Code: AXR1101 Tube: Round / 101.6X3.6 mm		Code: AXR11012 Tube: Round / 101.6x2.0 mm	
			
Code: AXR1133 Tube: Round / 133x2,5 mm		Code: AXR11334 Tube: Round / 133x4,0 mm	
			
Code: AXR1159 Tube: Round / 159x4,5 mm		Code: AXR1168 Tube: Round / 168x4,5 mm	
			
Code: AXR116829 Tube: Round / 168x2,9 mm			

# SHAFTS AND WASHERS

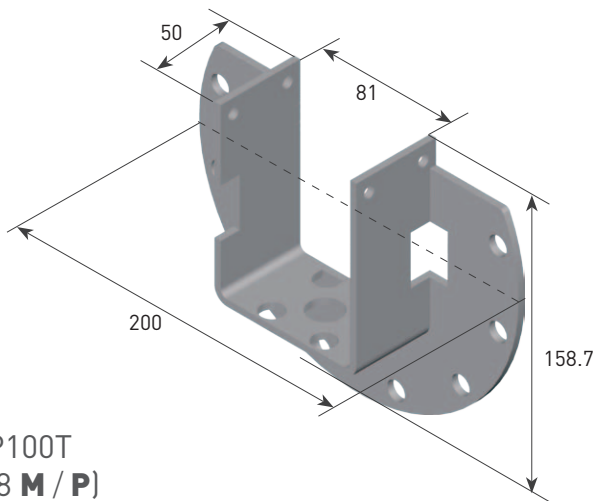
<b>SHAFTS</b>	ALM2.SF	ø 25 mm
<b>WASHERS</b>	AL2101.SF	for 101,6x3,6 ø tube - 25 mm shaft
	AL210120.SF	for 101,6x2,0 ø tube - 25 mm shaft
	AL2133.SF	for 133x4,0 ø tube - 25 mm shaft
	AL213325.SF	for 133x2,5 ø tube - 25 mm shaft
	AL2159.SF	for 159x4,5 ø tube - 25 mm shaft
	AL2168.SF	for 168,3x4,5 ø tube - 25 mm shaft



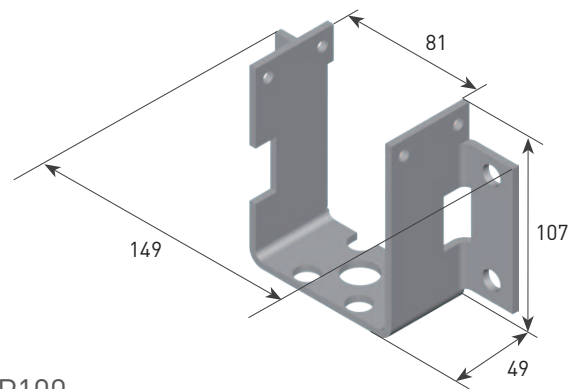
AXP100E  
(XQ8 **P**)



AXP100I  
(XQ8 **P**)



AXP100T  
(XQ8 **M / P**)



AXP100  
(XQ8 **M**)



BRACKETS COMPATIBLE  
WITH AXP100T:

**AXP100M30**

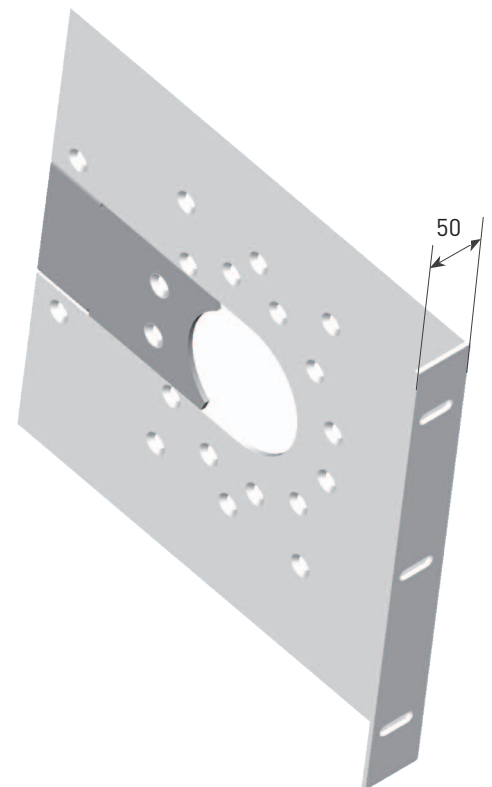
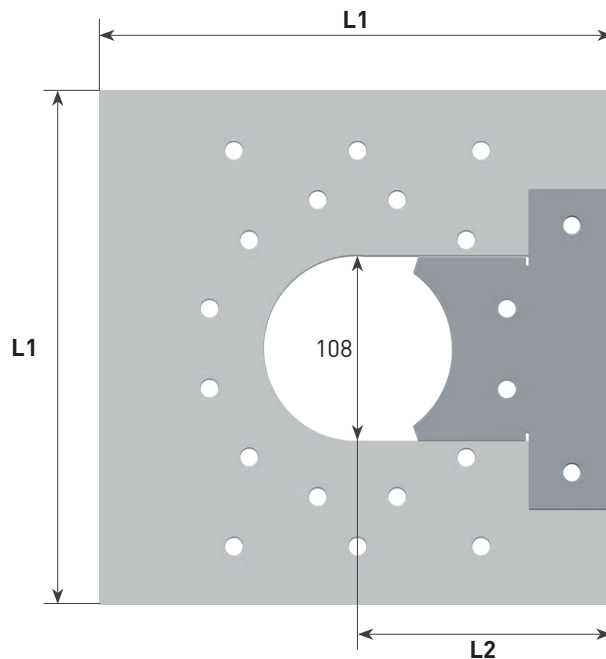
L1= 300 mm  
L2= 150 mm

**AXP100M34**

L1= 340 mm  
L2= 170 mm

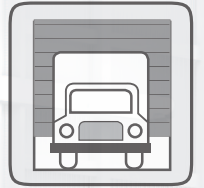
**AXP100M40**

L1= 400 mm  
L2= 200 mm









# INDUSTRIAL SHUTTERS

For the industrial shutters market we offer a range of reliable and strong side operators called **SIDONE**. These motors are equipped with an integrated safety brake and can be direct drive installed.

Sidone  
**BRD**

Sidone  
**MIDI**

Sidone  
**MAXXI**

Sidone  
**kTc**





Gearmotors with integrated safety brake for garage doors, unbalanced sectional doors and industrial and commercial shutters

TÜV SÜD Certificate:  
**TorFV 24/197**

## ADDITIONAL DETAILS

### European directives

Sidone is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### Duty rating

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

### Overload safety factor

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the Sidone can reach these levels for short periods.

### Output speed

The maximum admissible speed depends on the construction and type of door.

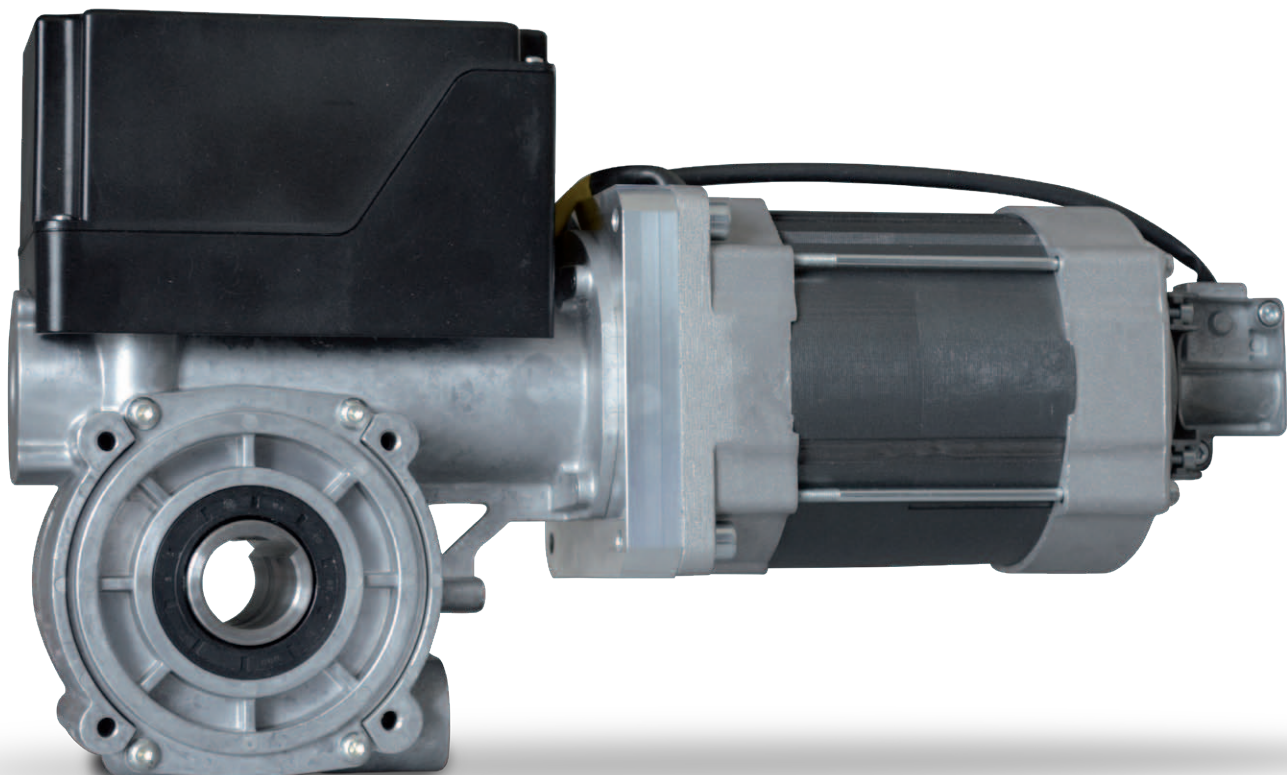
The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

### Manual operation

The manual override devices when power cuts-off, are based on a max strength of the end user of almost 40kg. In big or extremely heavy shutters the manual override is only intended in down direction.

### Holding torque

The Sidone drive unit, is capable of holding the weight of the door without slippage. The holding capability is the admissible load bearing of the worm gear construction.





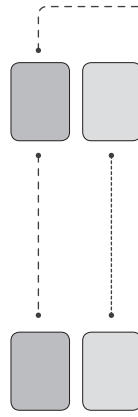
RANGE

3-phase

**BRD18018T**  
**BRD25012T**

1-phase

**BRD25012M**



**|| OVERRIDE OPTIONS**

**M** Hand Crank

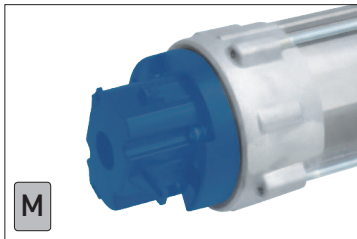
**C** Hand Chain Override

**|| LIMIT SWITCH OPTIONS**

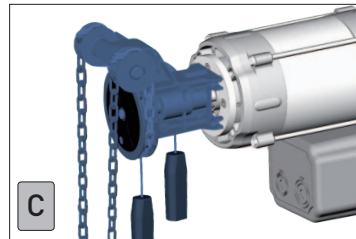
**M** Mechanical Limits

**E** Digital Limits

||  
OVERRIDE  
OPTIONS

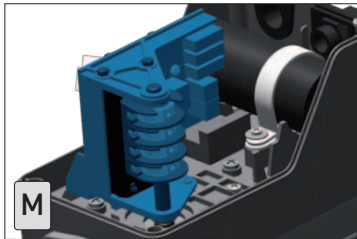


Hand crank



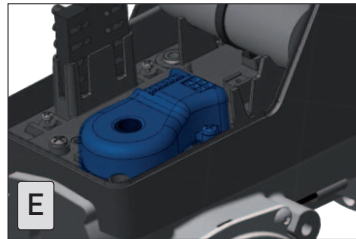
Hand chain override

||  
LIMIT SWITCH  
OPTIONS



Mechanical limits

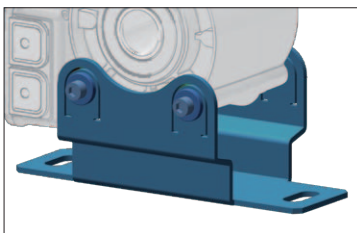
- 2 Green cams for operating limits.
- 2 Red cams for safety limits.
- 2 Yellow cams for auxiliary controls



Digital limits

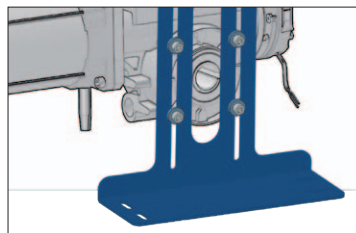
Absolute encoder  
No readjustment after power failure  
(necessary if a control unit with inverter is used)

||  
INSTALLATION  
TYPE



Basement

**ASOMBP**



Flange bracket

**ASOMLP**

||  
TECHNICAL  
DETAILS

	BRD18018T	BRD25012T	BRD25012M
Torque (Nm)	180	250	250
Output Speed (rpm)	18	12	12
Mechanical power (kW)	0.40	0.45	0.45
Power Supply (V~) <sup>(1)</sup>	3~ 400	3~ 400   3~ 230	1~ 230
Absorption (A)	2.58	2.6   4.8	4.7
Frequency (Hz)	50	50	50
Max Cycles Per Hour	20	20	20
Limit Switch max turns <sup>(2)</sup>	18	18	18
Working temperature <sup>(3)</sup>	-20°C/+60°C	-20°C/+60°C	-20°C/+60°C
Protection Rate (IP)	IP54	IP54	IP54
Hollow shaft (mm)	30/25.4 <sup>(4)</sup>	30	30
Holding torque (Nm)	500	900	900

<sup>(1)</sup> Highlighted the default electrical connection diagram.

<sup>(2)</sup> Upon request version at 25 limit switch max turns.

<sup>(3)</sup> Nominal values are fully respected within a temperature range -10°C/+40°C. In case of harsh temperatures there might be a performance drop on the declared values.

<sup>(4)</sup> 25.4 mm hollow shaft upon request





The SidoneMIDI drives are all with integrated safety brake and their typical applications are: rolling shutters, rolling grilles, vertical lift doors and sectional doors without spring compensation.

TÜV SÜD Certificate:  
**TorFV 24/198**

## ADDITIONAL DETAILS

### European directives

Sidone is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### Duty rating

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

### Overload safety factor

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the Sidone can reach these levels for short periods.

### Output speed

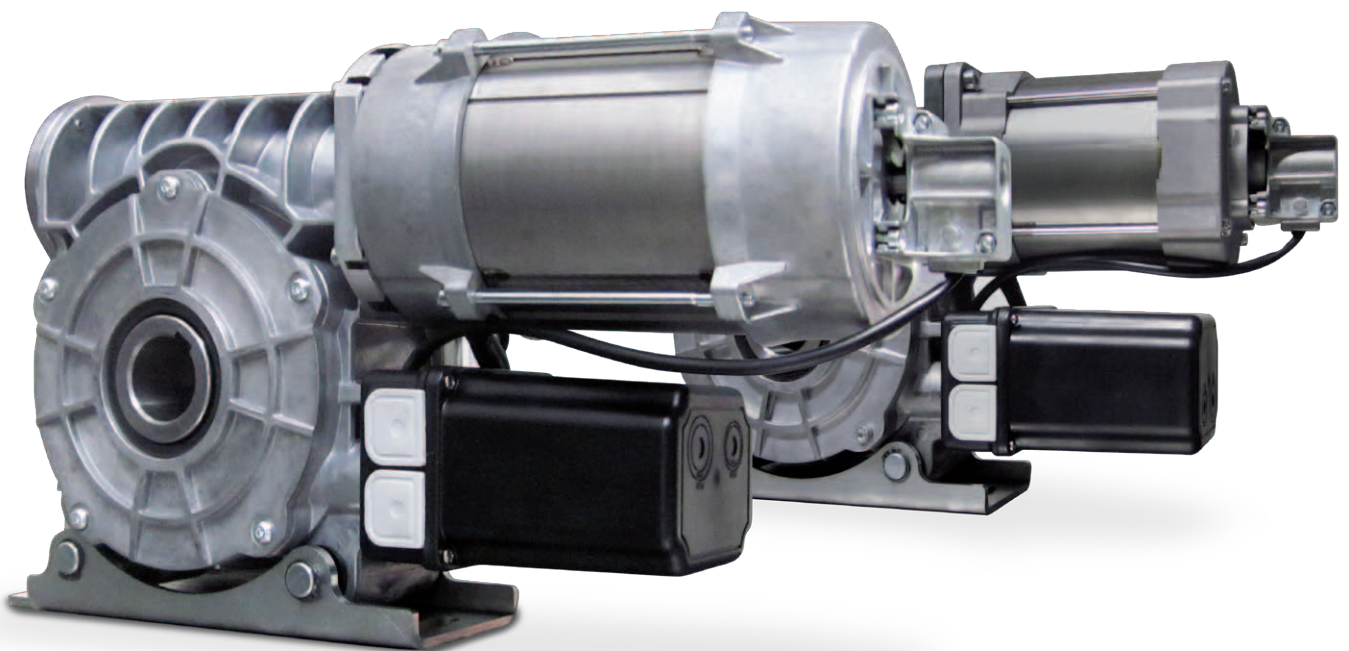
The maximum admissible speed depends on the construction and type of door. The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

### Manual operation

The manual override devices when power cuts-off, are based on a max strength of the end user of almost 40kg. In big or extremely heavy shutters the manual override is only intended in down direction.

### Holding torque

The Sidone drive unit, is capable of holding the weight of the door without slippage. The holding capability is the admissible load bearing of the worm gear construction.





RANGE

LP40014T  
LP55012T  
LP65012T

OVERVERRIDE OPTIONS



Hand Crank



Hand Chain Override

LIMIT SWITCH OPTIONS



Mechanical Limits

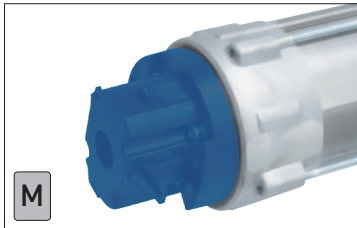


Digital Limits

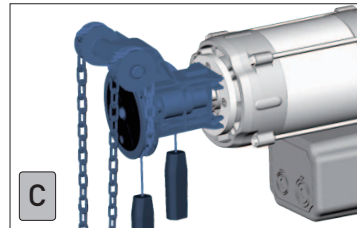
LP25060TME  
LP45035TME

Special drives for high-speed roller shutters

OVERVERRIDE OPTIONS

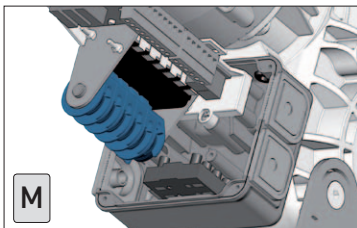


Hand crank



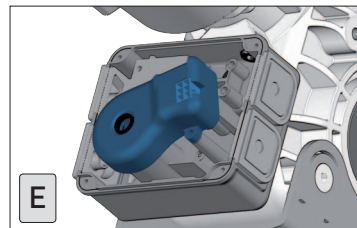
Hand chain override

LIMIT SWITCH OPTIONS



Mechanical limits

2 Green cams for operating limits  
2 Red cams for safety limits  
2 Yellow cams for auxiliary controls



Digital limits

Absolute encoder  
No readjustment after power failure  
(Necessary if a control unit with inverter is used)

TECHNICAL DATA

	LP40014T		LP55012T		LP65012T		LP25060TME		LP45035TME	
Torque (Nm)	400		550		650		250		450	
Output Speed (rpm)	14		12		12		60		35	
Mechanical power (kW)	1.2		1.2		1.4		2.1		2.1	
Power Supply (V~) <sup>(1)</sup>	3~ 400	3~ 230	3~ 400	3~ 230	3~ 400	3~ 230	3~ 400	3~ 230	3~ 400	3~ 230
Absorption (A)	3.19	5.19	3.92	7.1	3.74	7.36	3.91	6.38	4.51	8.02
Frequency (Hz)	50		50		50		50		50	
Duty rating (ED)	S3-60%		S3-50%		S3-50%		40		40	
Limit Switch max turns <sup>(2)</sup>	12		12		12		12		12	
Working temperature <sup>(3)</sup>	-20°C/+60°C		-20°C/+60°C		-20°C/+60°C		-20°C/+60°C		-20°C/+60°C	
Protection Rate	IP54		IP54		IP54		IP54		IP54	

Special drives for high-speed roller shutters

GAPOSA control unit recommended: QC600W

<sup>(1)</sup> Highlighted the default electrical connection diagram.

<sup>(2)</sup> Upon request version at 31 limit switch max turns.

<sup>(3)</sup> Nominal values are fully respected within a temperature range -10°C/+40°C.

In case of harsh temperatures there might be a performance drop on the declared values.





## Gearmotors with integrated safety brake for large industrial and commercial shutters

TÜV SÜD Certificate:  
**TorFV 24/199**

### ADDITIONAL DETAILS

#### European directives

Sidone is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

#### Duty rating

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

#### Overload safety factor

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the Sidone can reach these levels for short periods.

#### Output speed

The maximum admissible speed depends on the construction and type of door.

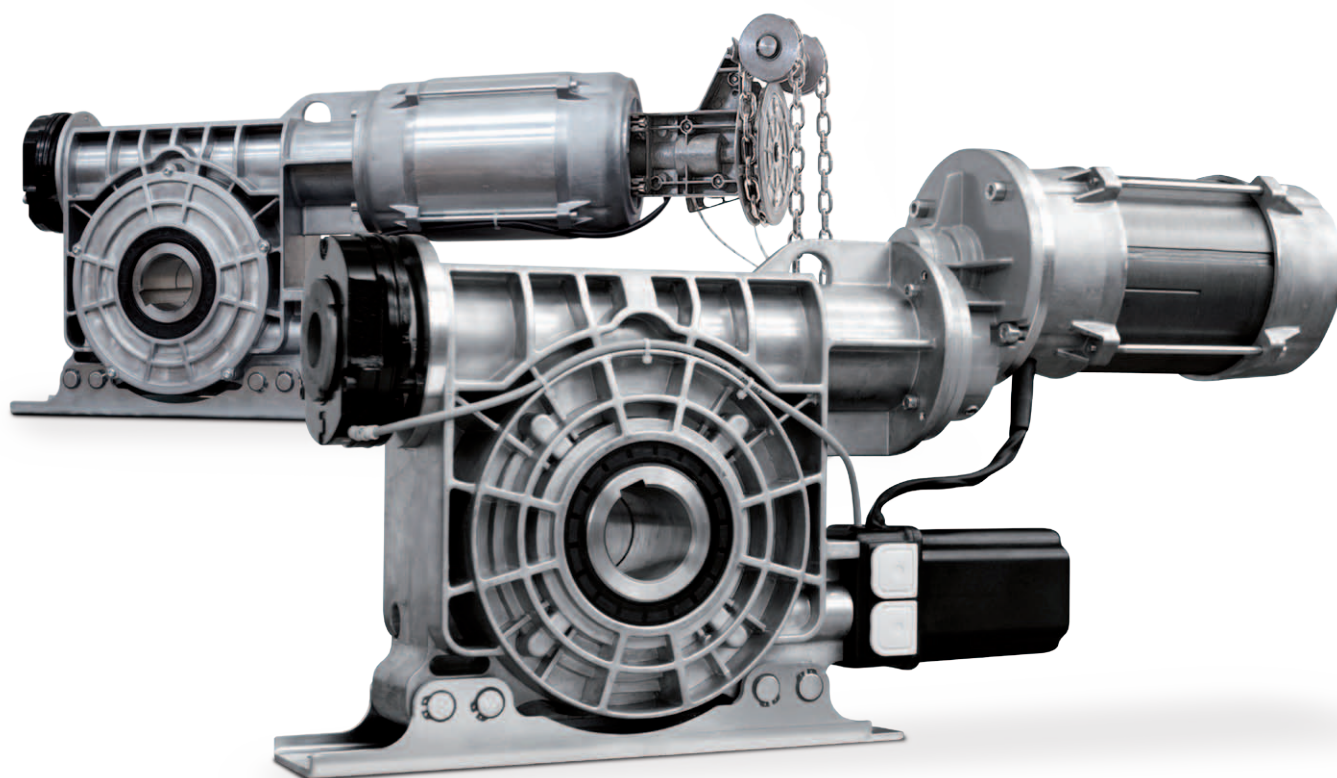
The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

#### Manual operation

The handchain override when power cuts-off, are based on a max strength of the end user of almost 40kg. In big or extremely heavy shutters the manual override is only intended in down direction.

#### Holding torque

The Sidone drive unit, is capable of holding the weight of the door without slippage. The holding capability is the admissible load bearing of the worm gear construction.





RANGE

- LP 75015TC
- LP 100010TC
- LP 14008TC
- LP 18006TC

LIMIT SWITCH OPTIONS

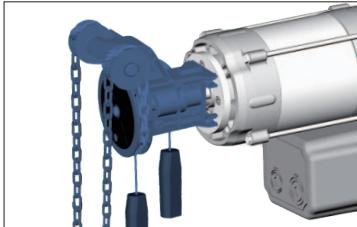


Mechanical Limits



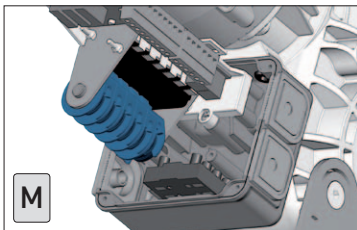
Digital Limits

VERRIDE  
PTIONS



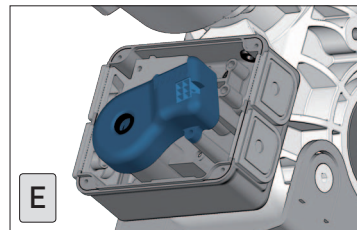
Hand chain  
override

LIMIT SWITCH  
PTIONS



Mechanical limits

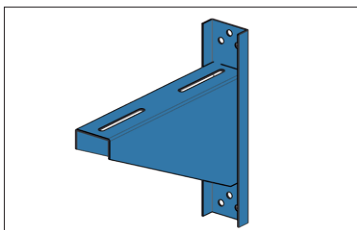
- 2 Green cams for operating limits
- 2 Red cams for safety limits
- 2 Yellow cams for auxiliary controls



Digital limits

Absolute encoder  
No readjustment after  
power failure  
(Necessary if a control  
unit with inverter is  
used)

INSTALLATION  
TYPE



Bracket

ASOMX

TECHNICAL  
DATA

	LP75015T	LP100010T	LP14008T	LP18006T
Torque (Nm)	750	1000	1400	1800
Output Speed (rpm)	15	10	8	6
Mechanical power (kW)	1.4	1.9	1.4	1.9
Power Supply (V~)	3~ 400	3~ 400	3~ 400	3~ 400
Absorption (A)	4.86	6.25	4.86	6.25
Frequency (Hz)	50	50	50	50
Duty rating (ED)	S3-50%	S3-50%	S3-50%	S3-50%
Limit Switch max turns <sup>(1)</sup>	12	12	12	12
Working temperature <sup>(2)</sup>	-20°C/+60°C	-20°C/+60°C	-20°C/+60°C	-20°C/+60°C
Protection Rate	IP54	IP54	IP54	IP54
Noise (dB)	<70	<70	<70	<70

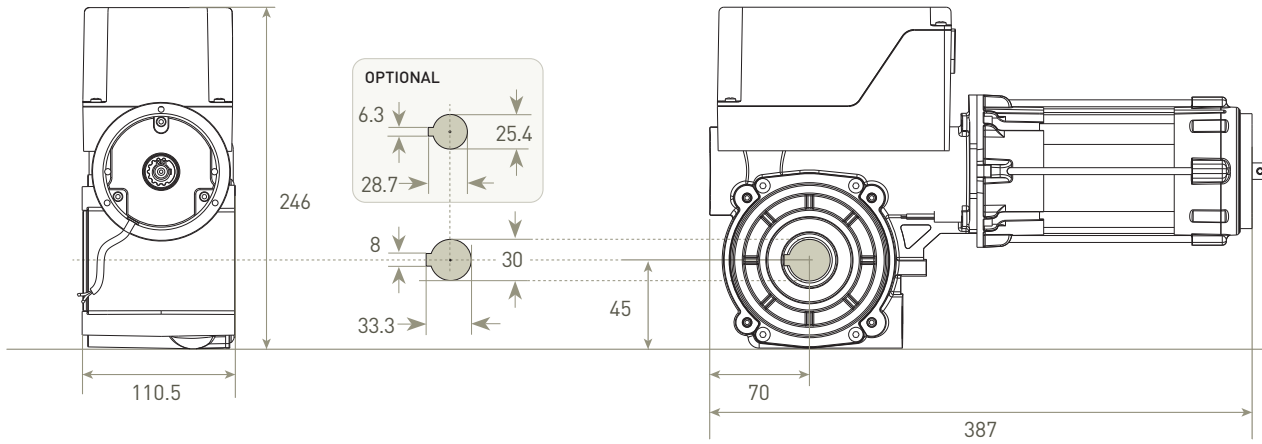
<sup>(1)</sup> A higher limit switch range is available upon request

<sup>(2)</sup> Nominal values are fully respected within a temperature range -10°C/+40°C. In case of harsh temperatures there might be a performance drop on the declared values.

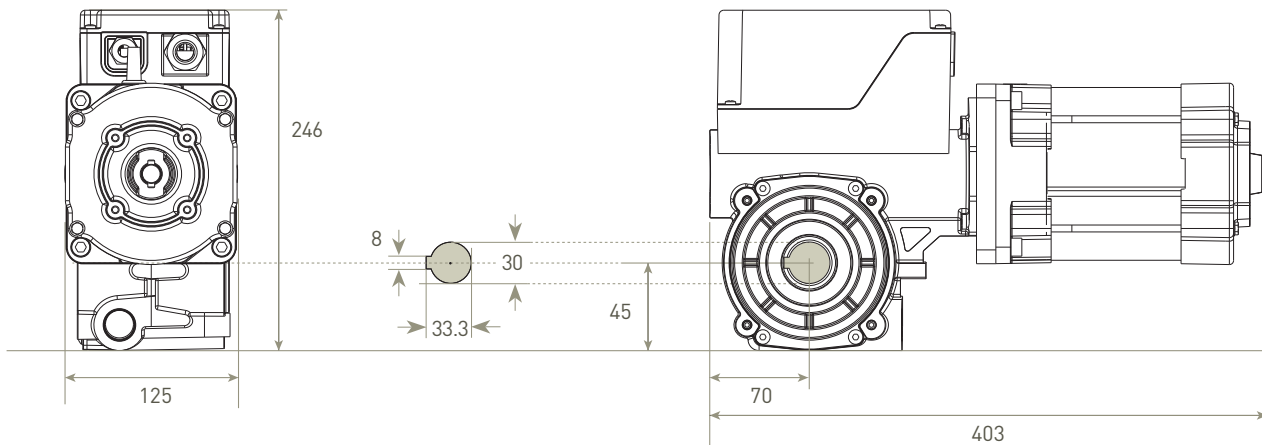




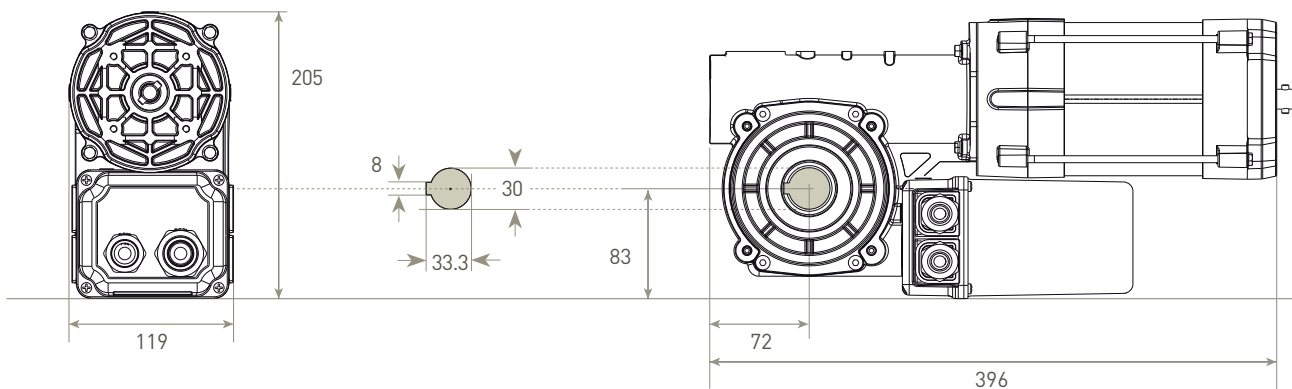
### BRD18018T



### BRD25012M



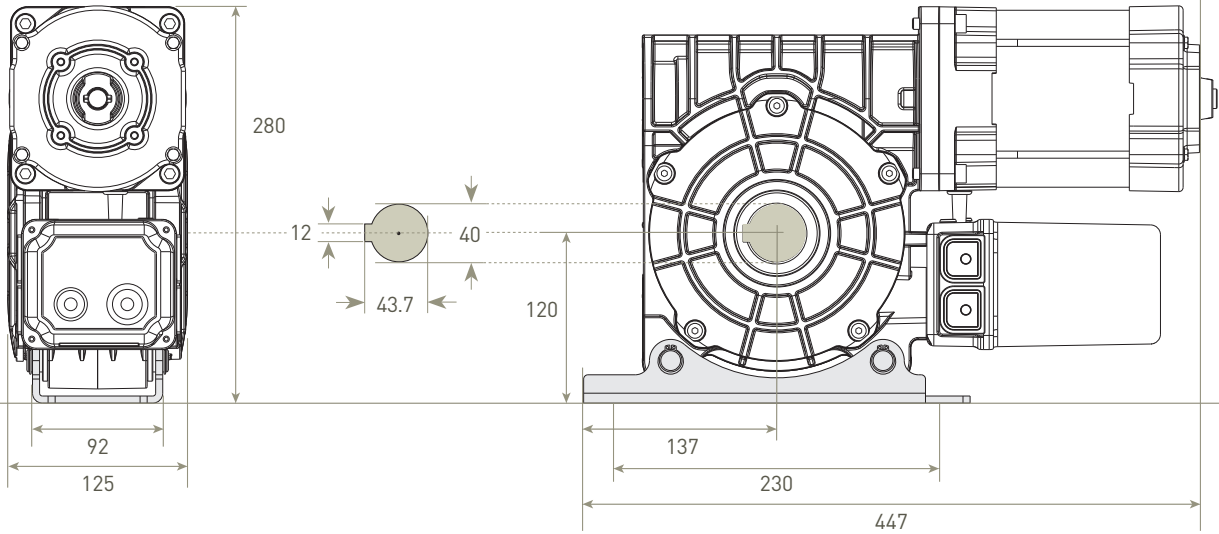
### BRD25012T



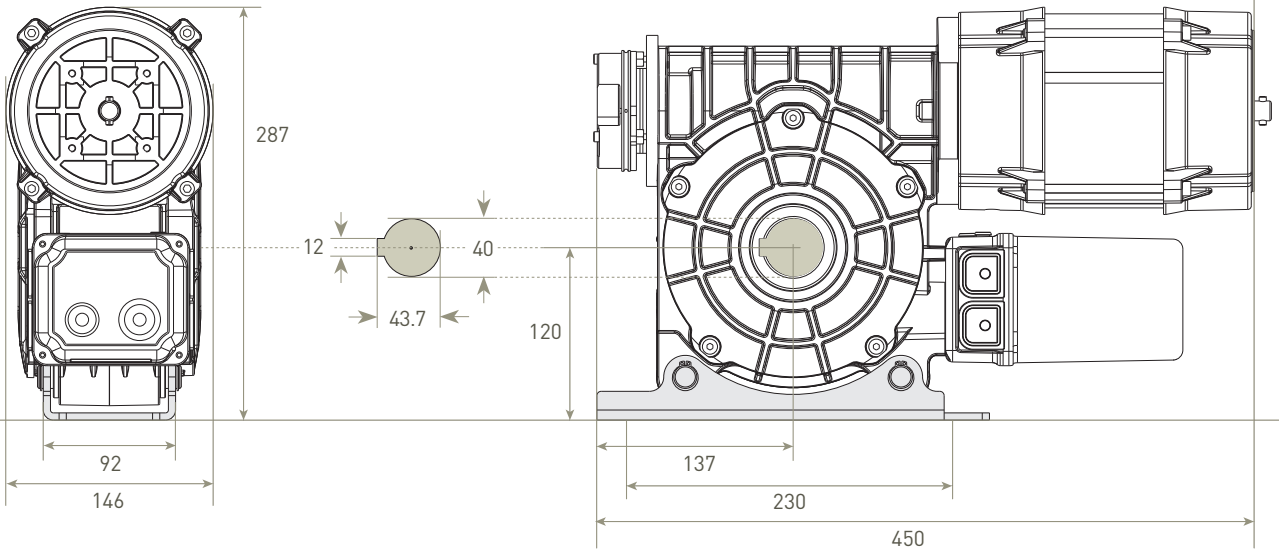




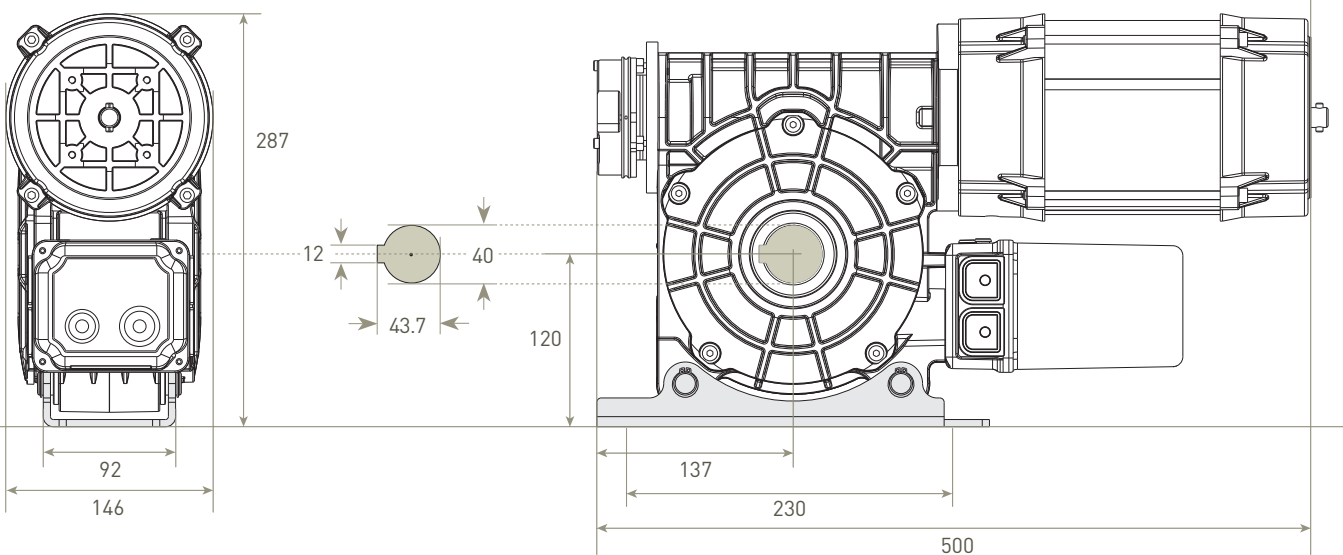
LP40014T



LP55012T

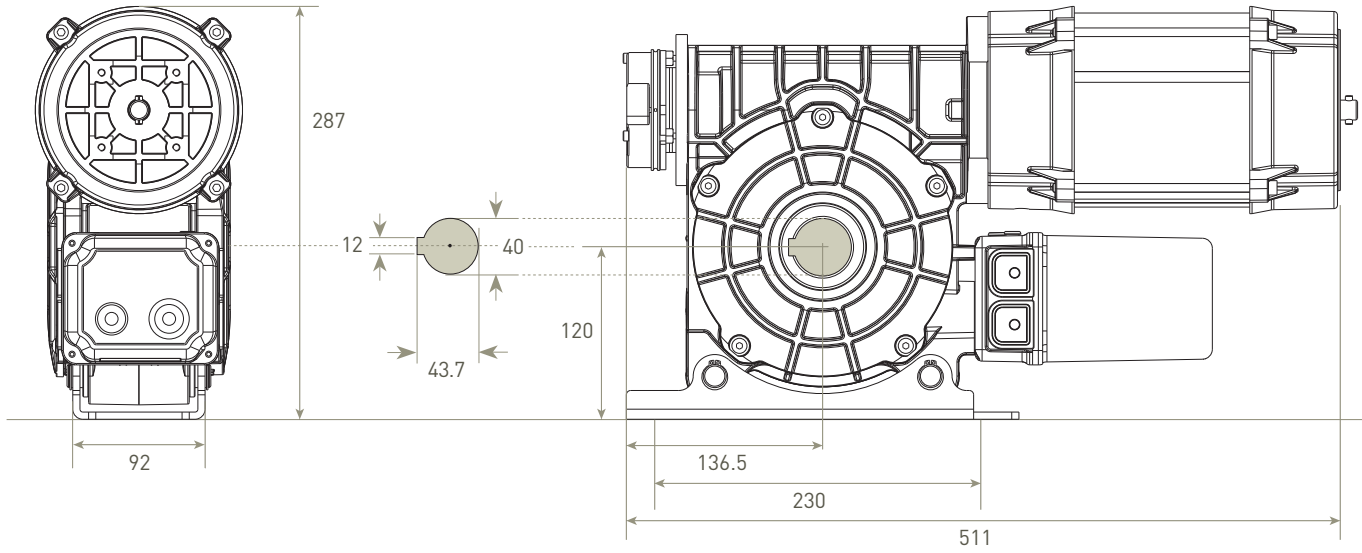


LP65012T

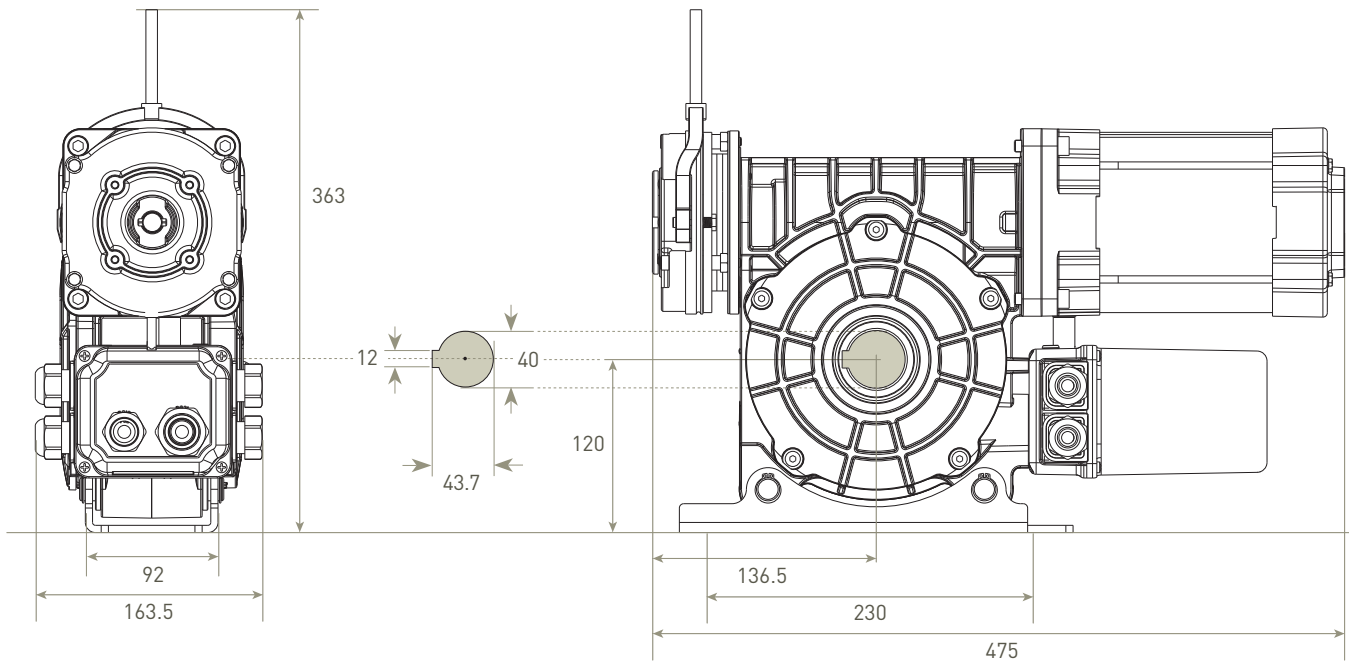




LP25060TME

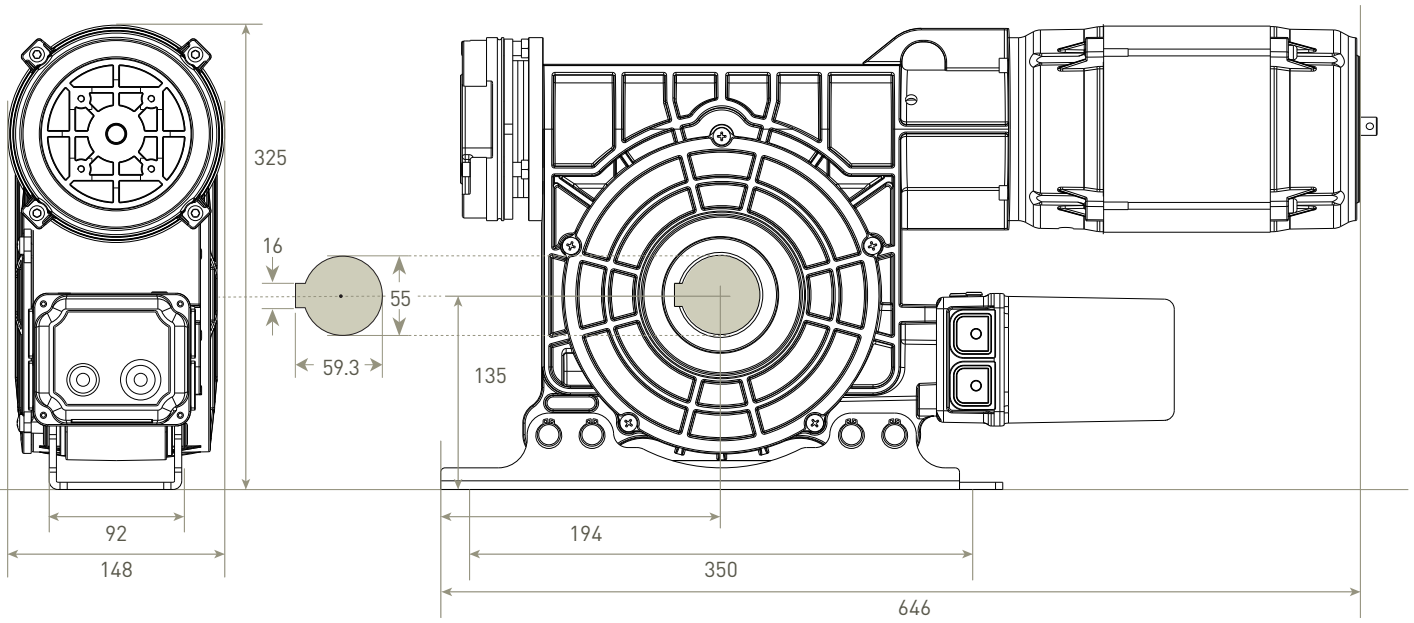


LP45035TME

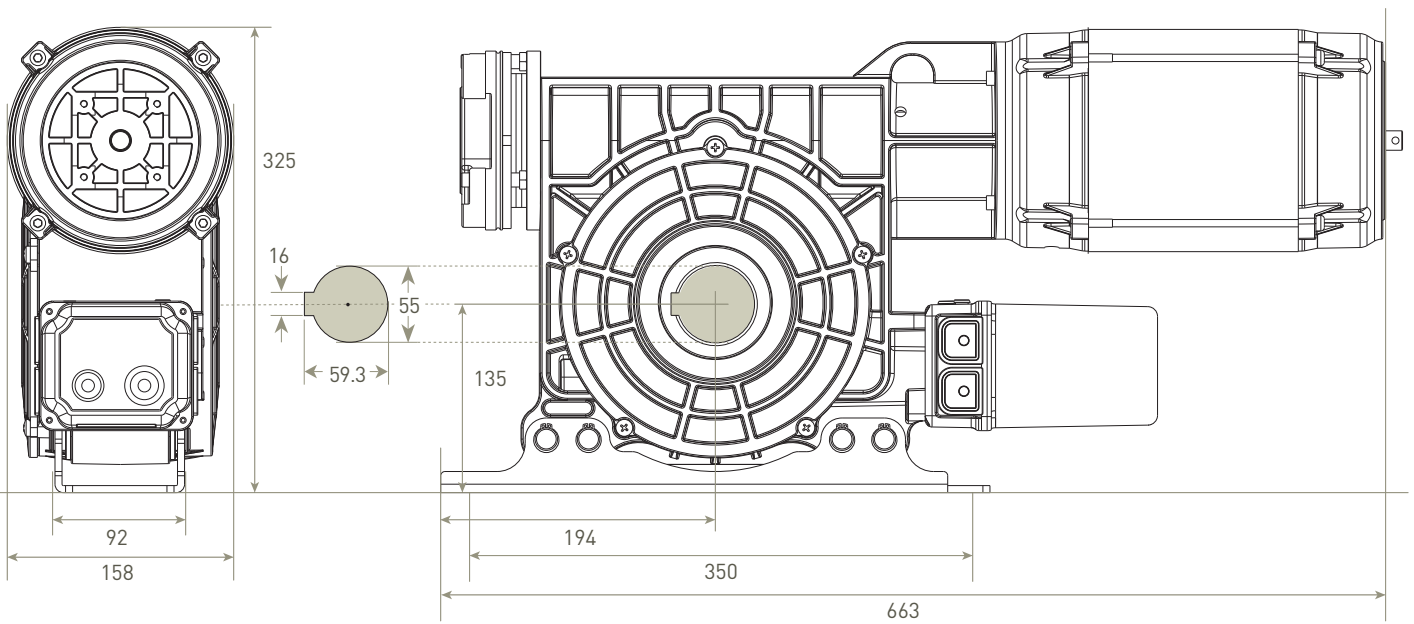




LP75015T

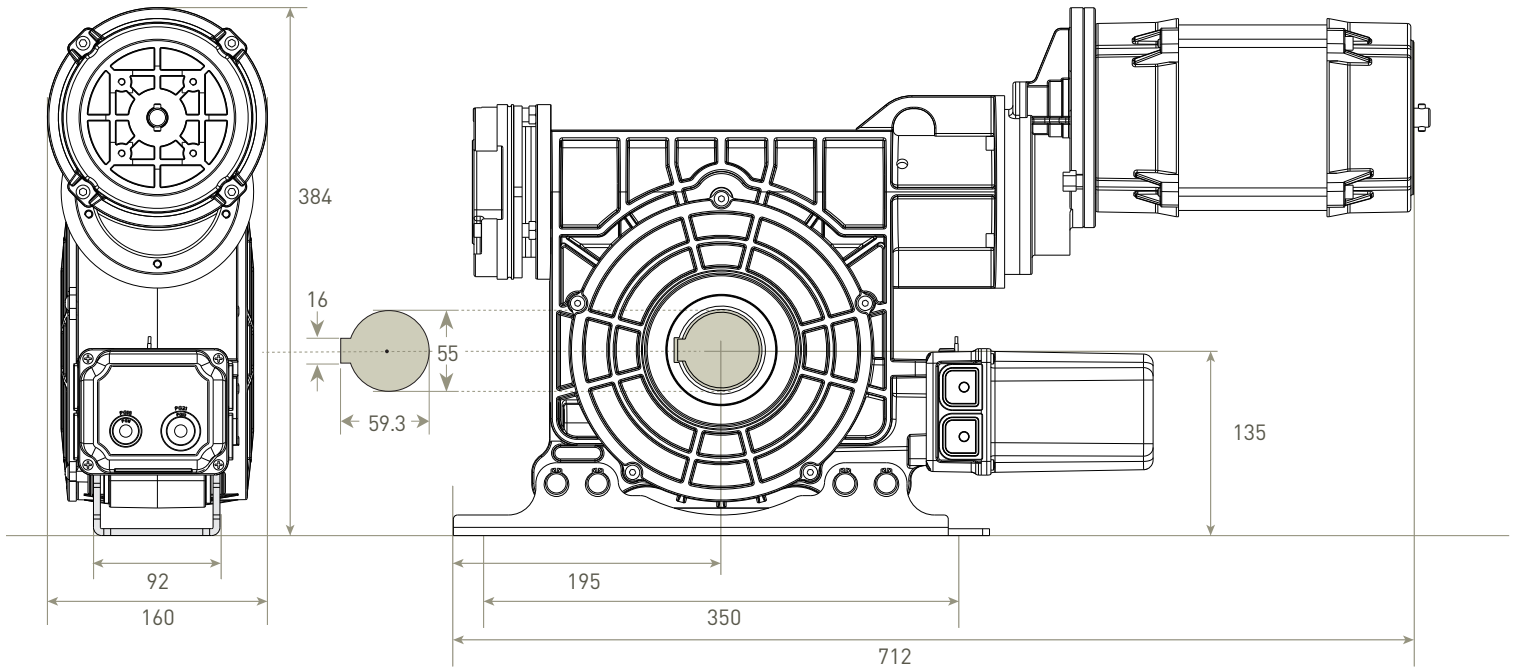


LP100010T

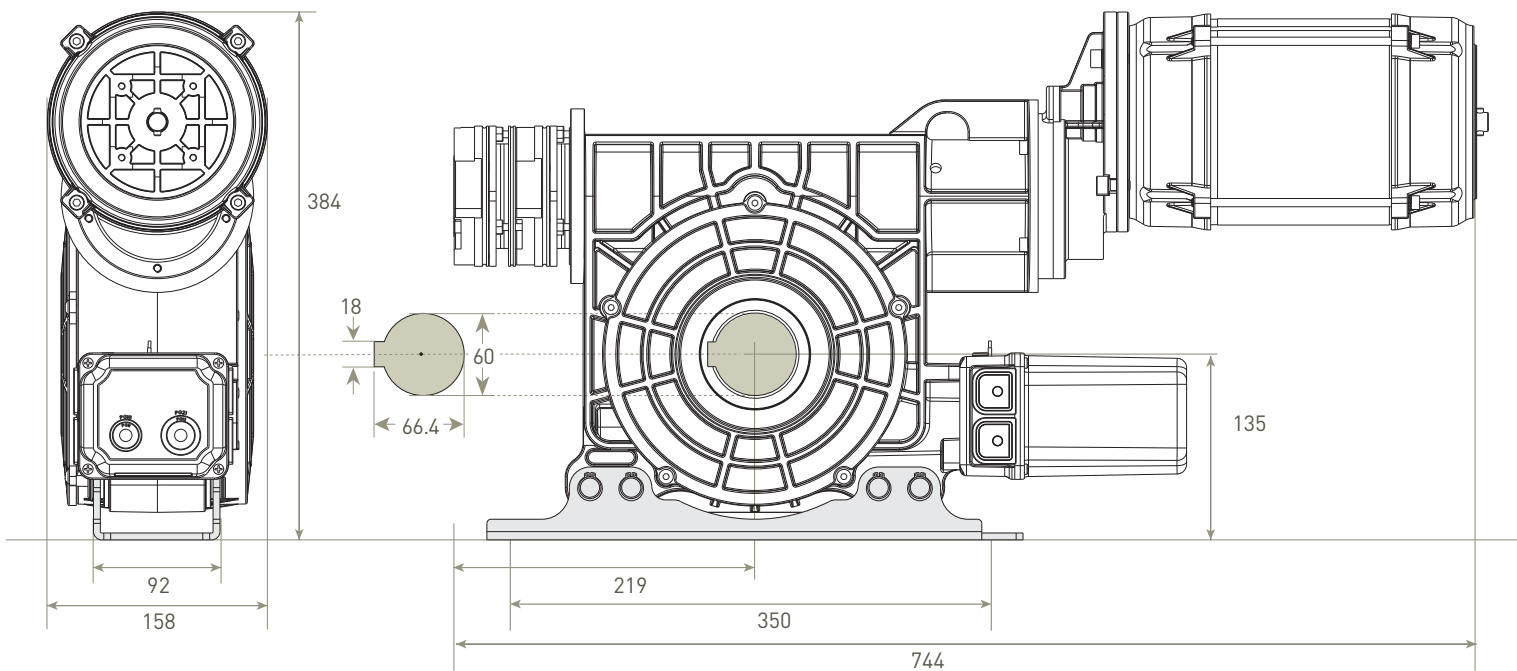




LP14008T



LP18006T

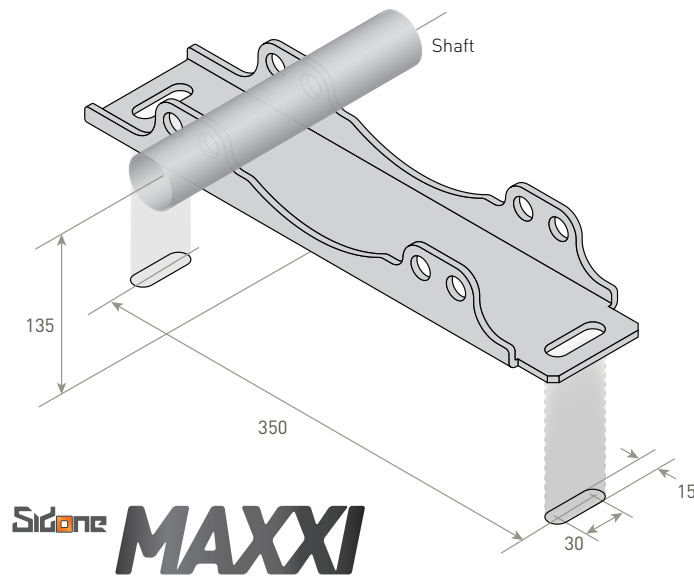
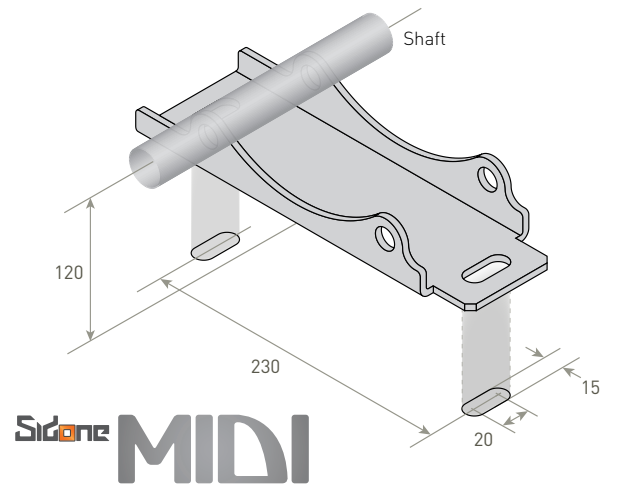
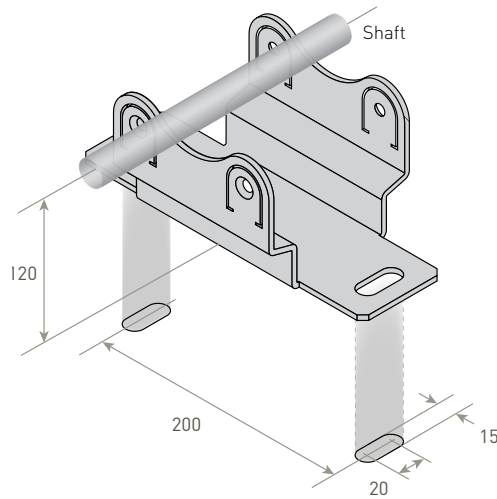




BASEMENTS

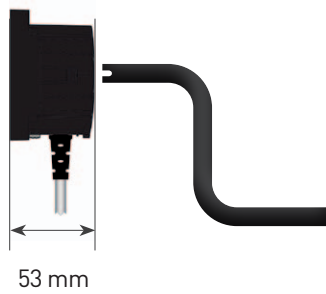
DIMENSIONS (mm)

Sidone **BRD**

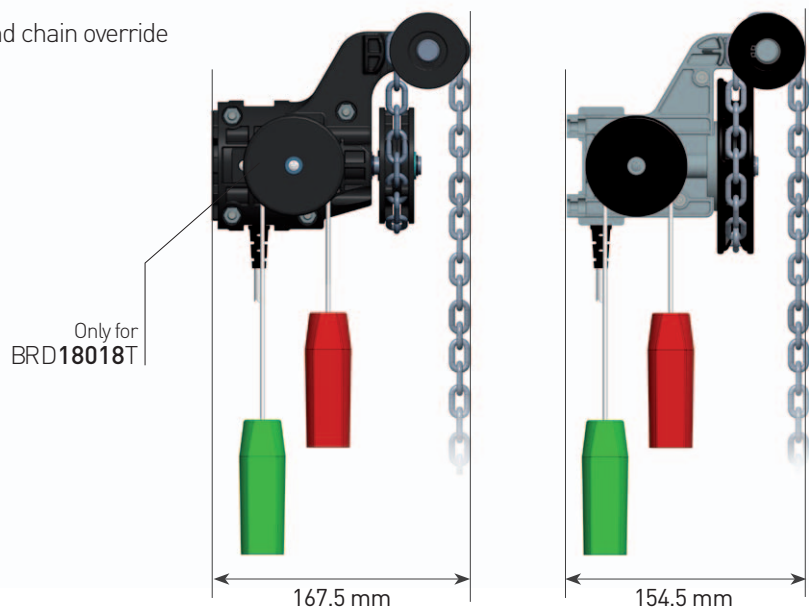


VERRIDE OPTIONS

Hand crank



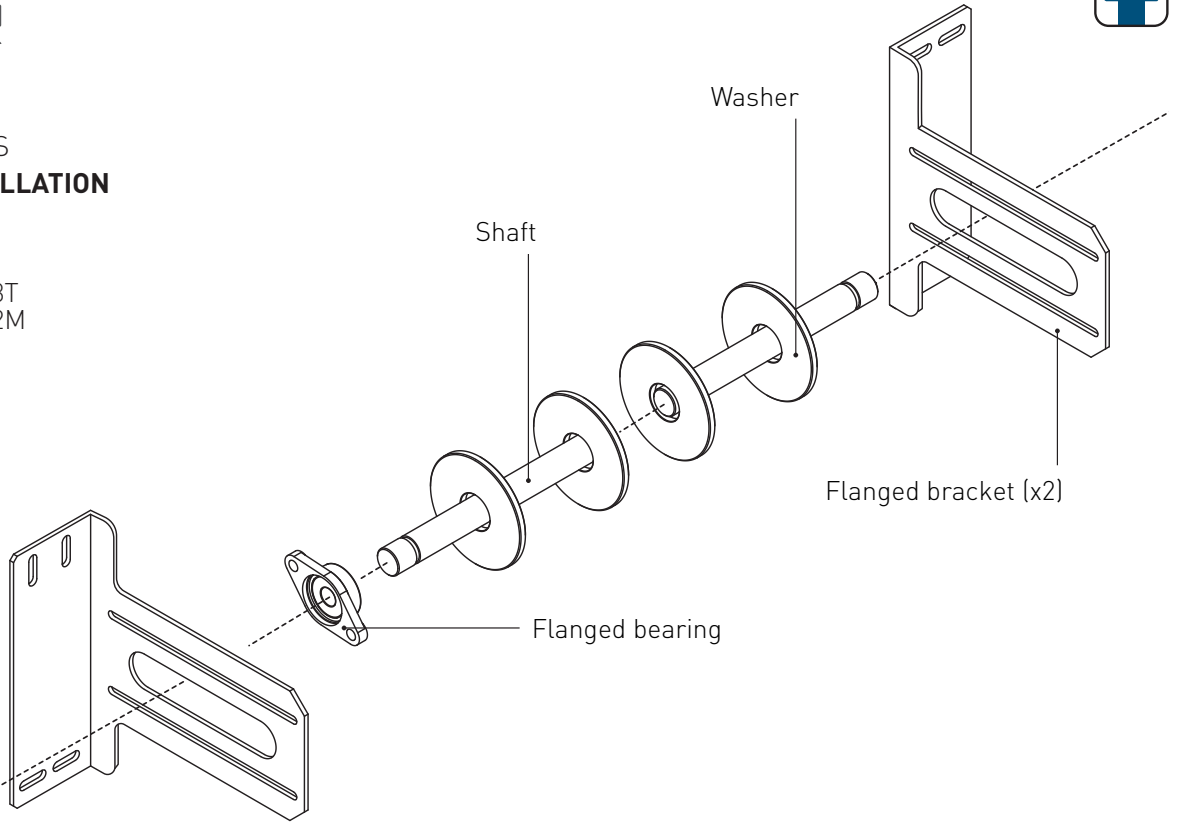
Hand chain override





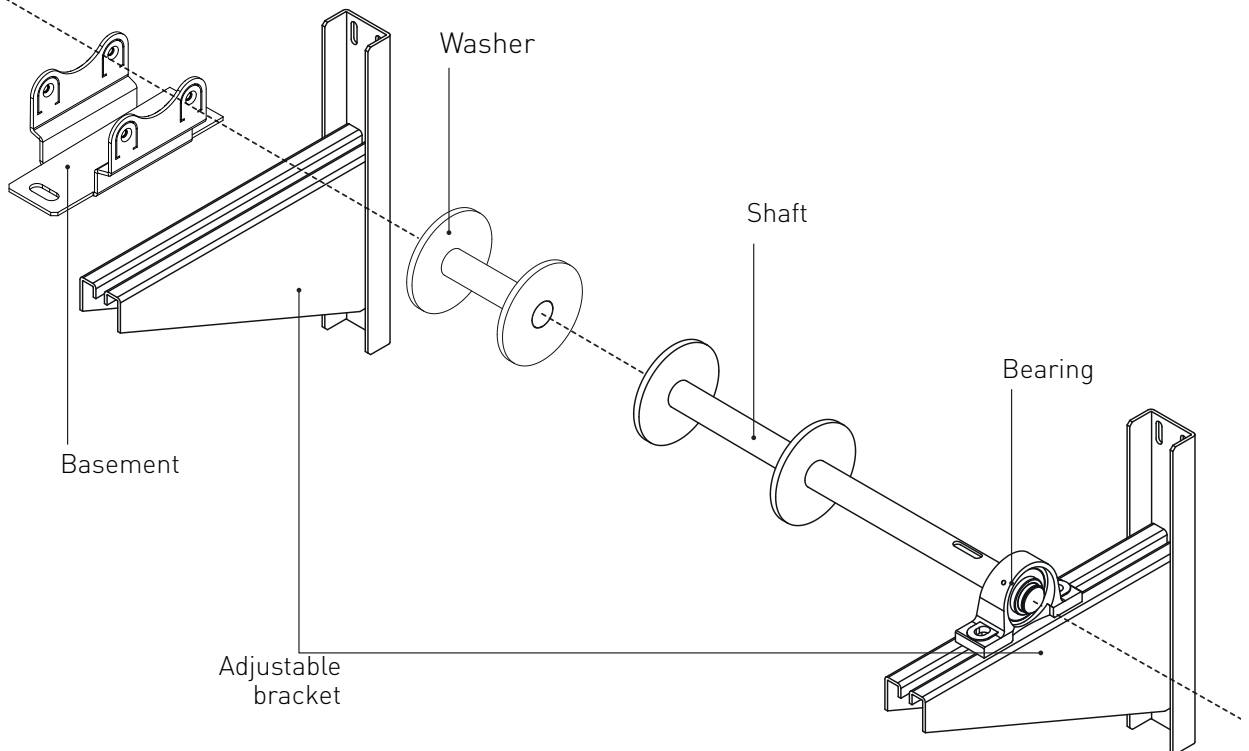
**BASIC DIAGRAMS**  
**VERTICAL INSTALLATION**

Motors BRD18018T  
BRD25012M



**BASIC DIAGRAMS**  
**HORIZONTAL INSTALLATION**

Motors	BRD18018T BRD25012M BRD25012T	LP40014T LP55012T LP65012T LP25060T LP45035T	LP75015T LP100010T LP14008T	LP18006T
Accessories	ASOM (2x) + ASOMBP	ASOM (2x)	ASOMX + ASOM	ASOMKS (2x)
Bearings	ALS3	ALS4	ALS55	ALS60



## ACCESSORIES

		BRD18018T BRD25012M BRD25012T	LP40014T LP55012T LP65012T LP25060T LP45035T	LP75015T LP100010T LP14008T	LP18006T
<b>ACCESSORIES</b>					
ASOMCL	Hand-chain override	■	LP40014T		
ASOMC	Hand-chain override		■		
ASOMC.70	Hand-chain override - Height 7 m		■	■	
ASOMBP	Basement	■			
ASOMLP	Flanged bracket	■			
ASOMVER	Vertical bracket		■		
ASOM	Adjustable bracket	■	■		
ASOMX	Adjustable bracket - motor side			■	
ASOMKS	Adjustable bracket				■
ASOMSIDO	Sidone/Midi basement adapter		■		
ASOMMINI	Miniside/Midi basement adapter		■		
<b>BRACKET BEARINGS</b>					
ALS3F	ø 30 mm (flanged)	■			
ALS3	ø 30 mm	■			
ALS4	ø 40 mm		■		
ALS55	ø 55 mm			■	
ALS6	ø 60 mm				■
<b>SHAFTS</b>					
ALM3.SF	ø 30 mm - motor side - 8x7x100 mm feather key - 30 mm circlip	■			
ALP3.SF	ø 30 mm - bearing side - 8x7x50 mm feather key - 30 mm circlip	■			
ALM4.SF	ø 40 mm - motor side - 12x8x100 mm feather key - 40 mm circlip		■		
ALM55.SF	ø 55 mm - motor side - 16x10x125 mm feather key - 55 mm circlip			■	
ALM6.SF	ø 60 mm - motor side - 18x11x125 mm feather key - 60 mm circlip				■
<b>WASHERS <sup>(1)</sup></b>					
AL3101.SF	for 101,1x3,6 ø tube - 30 mm shaft	■			
AL3133.SF	for 133x4,0 ø tube - 30 mm shaft	■			
AL3159.SF	for 159x4,5 ø tube - 30 mm shaft	■			
AL3168.SF	for 168,3x4,5 ø tube - 30 mm shaft	■			
AL3178.SF	for 177,8x5,0 ø tube - 30 mm shaft	■			
AL3193.SF	for 193,7x5,4 ø tube - 30 mm shaft	■			
AL4133.SF	for 133x4,0 ø tube - 40 mm shaft		■		
AL4159.SF	for 159x4,5 ø tube - 40 mm shaft		■		
AL4168.SF	for 168,3x4,5 ø tube - 40 mm shaft		■		
AL4178.SF	for 177,8x5,0 ø tube - 40 mm shaft		■		
AL4193.SF	for 193,7x5,4 ø tube - 40 mm shaft		■		
AL4219.SF	for 219,1x5,9 ø tube - 40 mm shaft		■		
AL4244.SF	for 244,5x6,3 ø tube - 40 mm shaft		■		
AL4273.SF	for 273,0x6,3 ø tube - 40 mm shaft		■		
AL4298.SF	for 298,5x7,1 ø tube - 40 mm shaft		■		
AL4323.SF	for 323,9x7,1 ø tube - 40 mm shaft		■		
AL55193.SF	for 193,7x5,4 ø tube mm - 55 mm shaft			■	
AL55219.SF	for 219,1x5,9 ø tube mm - 55 mm shaft			■	
AL55244.SF	for 244,5x6,3 ø tube mm - 55 mm shaft			■	
AL55298.SF	for 298,5x7,1 ø tubemm - 55 mm shaft			■	
AL55323.SF	for 323,9x7,1 ø tube mm - 55 mm shaft			■	
AL6193.SF	for 193,7x5,4 ø tube mm - 60 mm shaft				■
AL6219.SF	for 219,1x5,9 ø tube mm - 60 mm shaft				■
AL6244.SF	for 244,5x6,3 ø tube mm - 60 mm shaft				■
AL6298.SF	for 298,5x7,1 ø tubemm - 60 mm shaft				■
AL6323.SF	for 323,9x7,1 ø tube mm - 60 mm shaft				■

<sup>(1)</sup> Further dimensions and diameters are available upon request.

SELECTION TABLE

Special drives for high-speed roller shutters

Tube	H (m)	BRD18018T	BRD25012T/M	LP40014T	LP55012T	LP65012T	LP25060T	LP45035T
		Max Kg	Max Kg	Max Kg	Max Kg	Max Kg	Max Kg	Max Kg
101.6 x 3.6 mm	3	208	289				268	
	5	181	252				227	
	7	161	223				195	
133 x 4.0 mm	3	191	265	424	582	688	253	477
	5	169	235	376	518	612	220	423
	7	156	216	345	475	561	199	388
159 x 4.5 mm	3	167	232	371	510	603	223	417
	5	161	223	358	492	581	213	403
	7	149	207	331	455	537	196	372
168 x 4.5 mm	3	163	226	362	497	588	218	407
	5	153	213	340	468	553	204	383
	7	142	197	315	433	512	186	354
177.8 x 5.0 mm	3	155	215	344	473	559	208	387
	5	145	202	324	445	526	194	365
	7	135	187	299	412	486	177	336
193.7 x 5.4 mm	3	142	197	319	439	519	191	359
	5	134	185	300	413	488	178	338
	7	124	172	278	382	452	163	313
219.1 x 5.9 mm	3			285	391	462		321
	5			268	368	435		302
	7			248	341	403		279

Tube	H (m)	LP75015T	LP100010T	LP14008T	LP18006T
		Max Kg	Max Kg	Max Kg	Max Kg
159 x 4.5 mm	3	718			
	5	676			
	7	625			
168 x 4.5 mm	3	680			
	5	640			
	7	592			
177.8 x 5.0 mm	3	642	869	1195	
	5	604	818	1127	
	7	559	757	1043	
193.7 x 5.4 mm	3	599	798	1118	1436
	5	563	751	1051	1352
	7	521	695	973	1251
219.1 x 5.9 mm	3	533	711	995	1280
	5	502	669	937	1204
	7	464	619	866	1114
244.5 x 6.3 mm	3	483	644	902	1159
	5	455	606	849	1091
	7	421	561	786	1010
273 x 7.0 mm	3	435	580	812	1044
	5	410	546	765	983
	7	379	505	707	909
323.9 x 7.1 mm	3		496	684	893
	5		466	645	839
	7		431	596	776

The selection table already considers a 20% friction for single wall shutters. It is necessary to add a further friction percentage for double wall shutters and relevant slat thickness.

Tube = Ø x thickness (mm)  
H = Shutter's height (m)





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Side motors with chain transmission  
kit for heavy rolling shutters

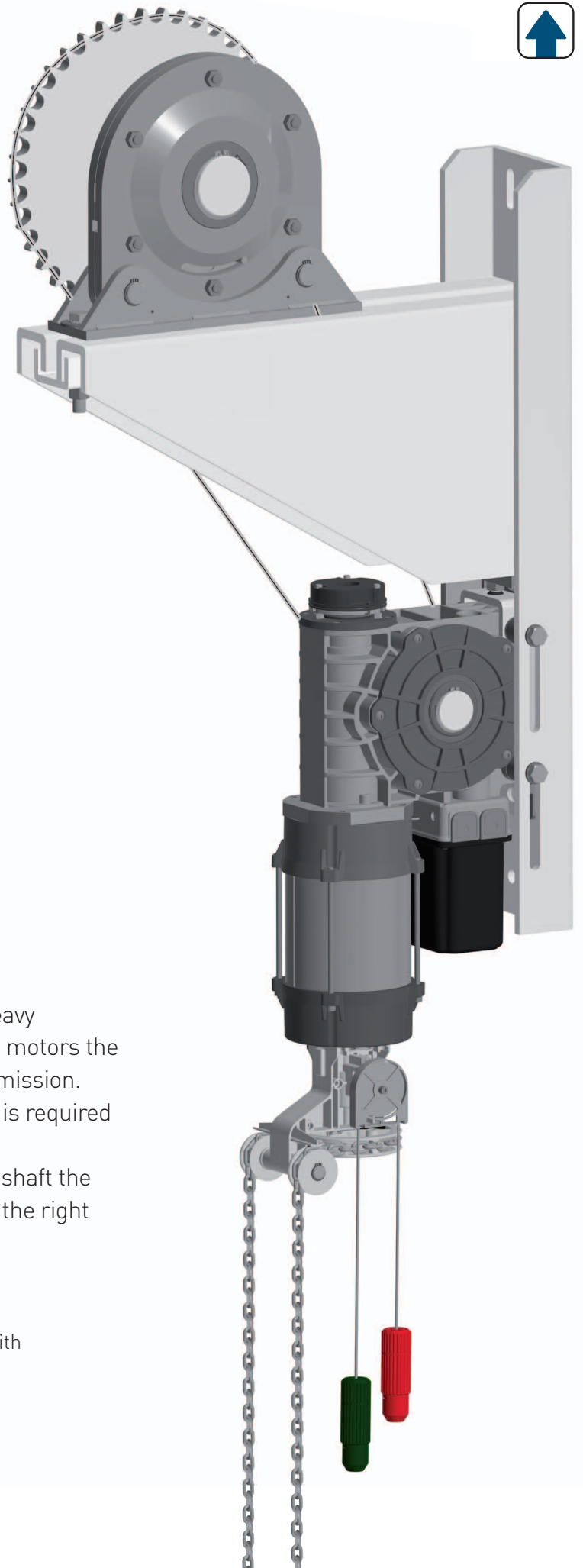
# LC 1500 TCM LC 2000 TCM

MAIN  
FEATURES

Sidone **kTC** is a special assembly for heavy industrial doors. In installations with these motors the door rolling tube is driven by a chain transmission. An inertial safety brake of appropriate size is required and considered in the assembly. Due to the interchangeability of the output shaft the assembly can be installed on the left or on the right side of the door.

The set is made up of:

- ▶ The Sidone motor without integrated brake with mechanical limit switch
- ▶ A safety brake (M15A or M20A according to the type of assembly)
- ▶ A special bracket for the chain transmission
- ▶ Sprockets, chain and a set of screws.





## ADDITIONAL DETAILS

### European directives

Sidone is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### Duty rating

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

### Overload safety factor

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the Sidone can reach these levels for short periods.

### Output speed

The maximum admissible speed depends on the construction and type of door.

The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

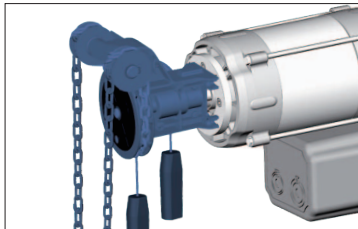
### Manual operation

The handchain override when power cuts-off, are based on a max strength of the end user of almost 40kg. In big or extremely heavy shutters the manual override is only intended in down direction.

### Holding torque

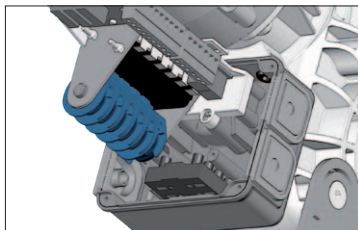
The Sidone drive unit, is capable of holding the weight of the door without slippage. The holding capability is the admissible load bearing of the worm gear construction.

## VERRIDE PTIONS



Hand chain  
override

## LIMIT SWITCH PTIONS



Mechanical limits

- 2 Green cams for operating limits
- 2 Red cams for safety limits
- 2 Yellow cams for auxiliary controls

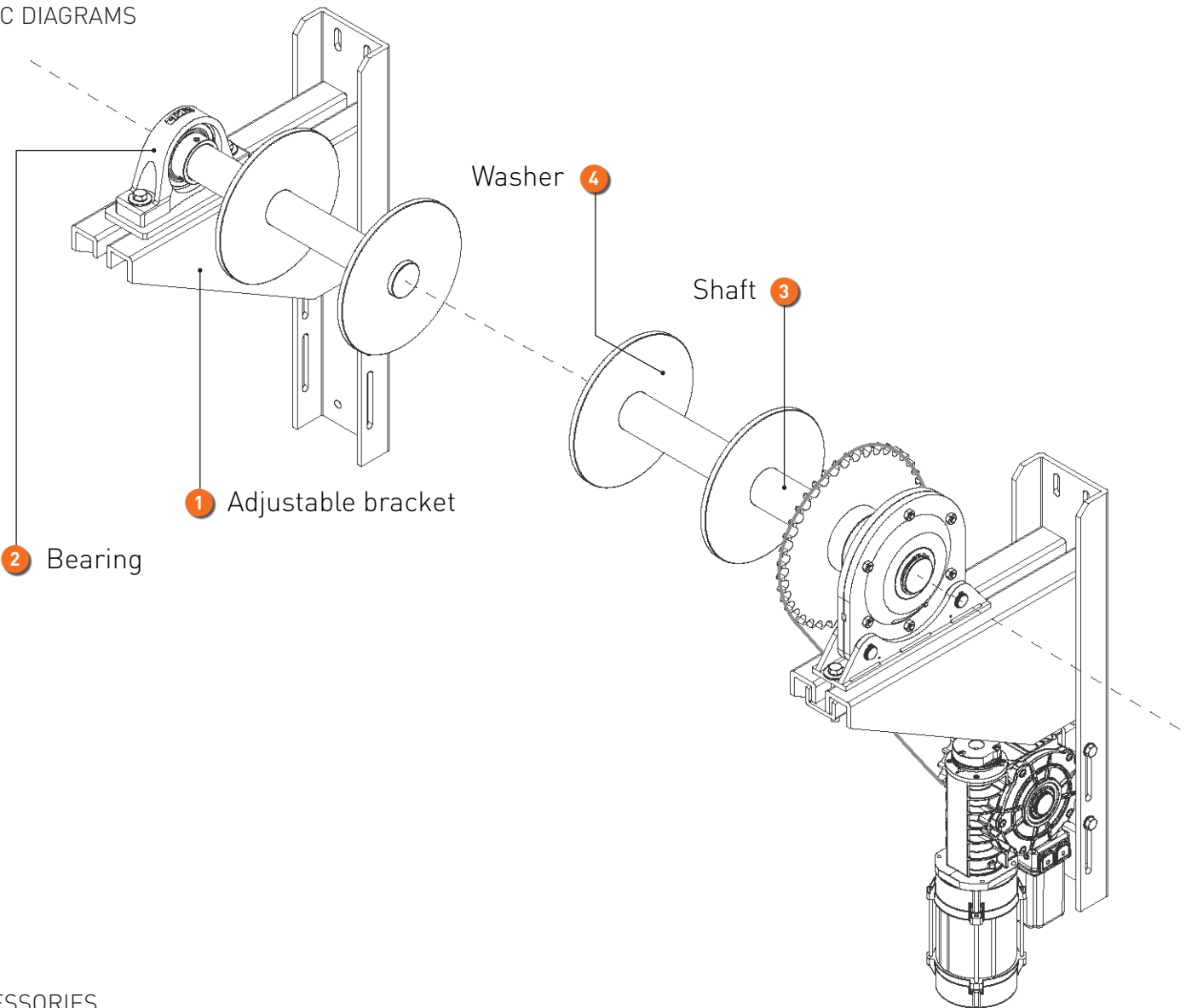
## TECHNICAL DATA

	LC1500TCM	LC2000TCM
Torque (Nm)	1500	2000
Output Speed (rpm)	4	3
Mechanical power (kW)	1.4	1.4
Power Supply (V~)	3~ 400	3~ 400
Absorption (A)	3.74	3.74
Frequency (Hz)	50	50
Duty rating (ED)	S3-50%	S3-50%
Limit Switch max turns	13	10
Working temperature <sup>(1)</sup>	-20°C/+60°C	-20°C/+60°C
Protection Rate	IP54	IP54
Noise (dB)	<70	<70

<sup>(1)</sup> Nominal values are fully respected within a temperature range -10°C/+40°C. In case of harsh temperatures there might be a performance drop on the declared values.



I BASIC DIAGRAMS



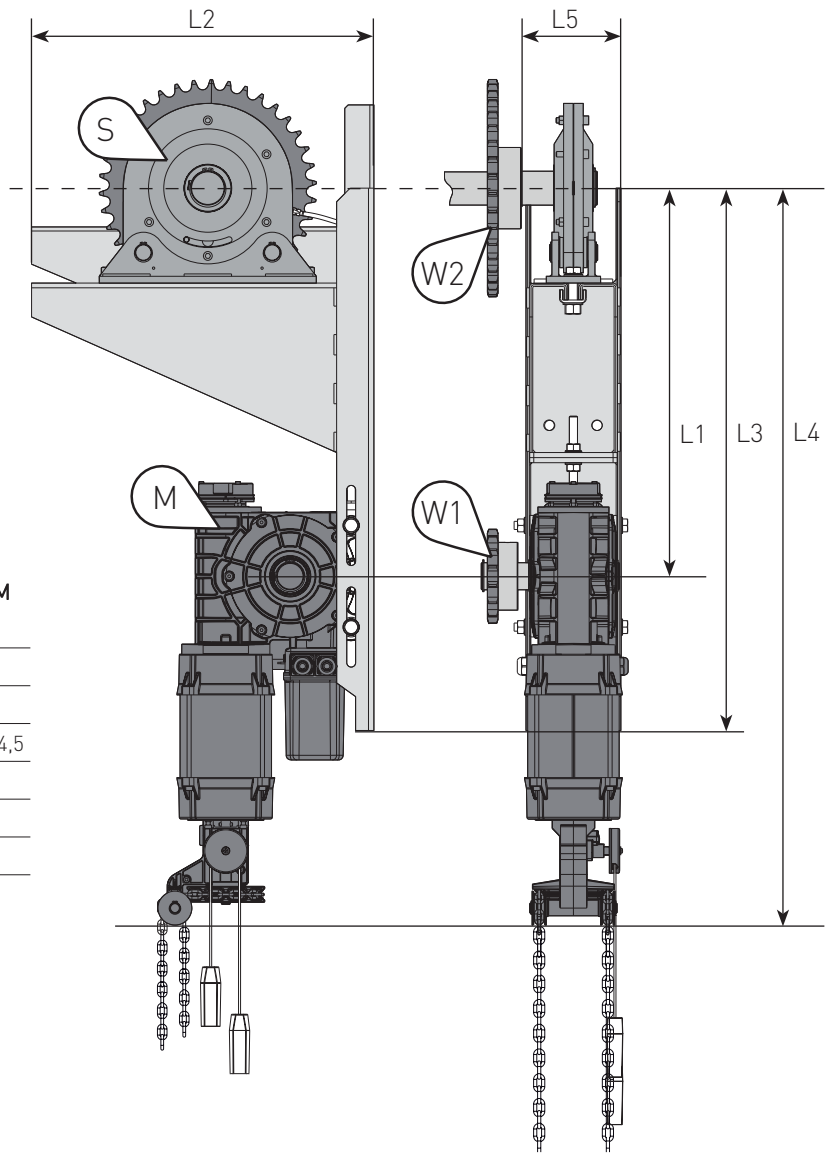
I ACCESSORIES

		LC 1500 TCM	LC 2000 TCM
<b>1 ACCESSORIES</b>			
ASOMKS	Adjustable bracket	■	
ASOMS	Adjustable bracket		■
<b>2 BRACKET BEARINGS</b>			
ALS5	ø 50 mm	■	
ALS65	ø 65 mm		■
<b>3 SHAFTS</b>			
ALM5KS.SF	ø 50 mm - motor/ bearing side - (2x) 14x9x50 mm feather key - 50 mm circlip	■	
ALM65KS.SF	ø 65 mm - motor side - 18x11x70 + 20x12x80 mm feather key - 65 mm circlip		■
ALP65.SF	ø 65 mm - bearing side - 18x11x70 mm feather key - 65 mm circlip		■
<b>WASHERS<sup>(1)</sup></b>			
AL5193.SF	for 193,7x5,4 ø tube - 50 mm shaft	■	
AL5219.SF	for 219,1x5,9 ø tube - 50 mm shaft	■	
AL5244.SF	for 244,5x6,3 ø tube - 50 mm shaft	■	
AL5273.SF	for 273,0x6,3 ø tube - 50 mm shaft	■	
AL5298.SF	for 298,5x7,1 ø tube - 50 mm shaft	■	
AL5323.SF	for 323,9x7,1 ø tube - 50 mm shaft	■	
AL65219.SF	for 219,1x5,9 ø tube - 65 mm shaft		■
AL65244.SF	for 244,5x6,3 ø tube - 65 mm shaft		■
AL65273.SF	for 273,0x6,3 ø tube - 65 mm shaft		■
AL65298.SF	for 298,5x7,1 ø tube - 65 mm shaft		■
AL65323.SF	for 323,9x7,1 ø tube - 65 mm shaft		■

<sup>(1)</sup>Further dimensions and diameters are available upon request.



DIMENSIONS  
(mm)



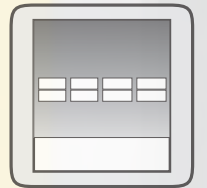
	LC1500TCM	LC2000TCM
L1 (min/max)	520 / 625	575 / 680
L2	505	605.5
L3	800	830
L4 (min/max)	1034,5 / 1139,5	1089,5 / 1194,5
L5	134	163
Motor (M)	L650T	L650T
Safety brake (S)	M15A	M20A
Reduction ratio (W2/W1)	2.38:1	3.08:1

**SELECTION TABLE**

Tube Ø x thickness (mm)	Shutter's height (m)	LC1500TCM	LC2000TCM
		Shutter's weight (Kg)	Shutter's weight (Kg)
193.7 x 5.4	3	1197	1596
	5	1127	1502
	7	1042	1390
219.1 x 5.9	3	1067	1423
	5	1004	1339
	7	929	1238
244.5 x 6.3	3	966	1288
	5	909	1212
	7	841	1121
273 x 7.0	3	870	1160
	5	819	1092
	7	758	1010
323.9 x 7.1	3	743	991
	5	700	933
	7	647	863







# RAPID DOORS

With a speed up to 180rpm, the **Rapido range** of drives is the ideal solution for the rapid doors' market, offering a wide range of operators with several combinations of torque and speed. To grant the highest degree of safety each motor is equipped with an electromagnetic brake and an integrated safety brake. Special versions with high torque are available also for high-speed rolling shutters.

**RAPIDO** bbs

**RAPIDO** BRD



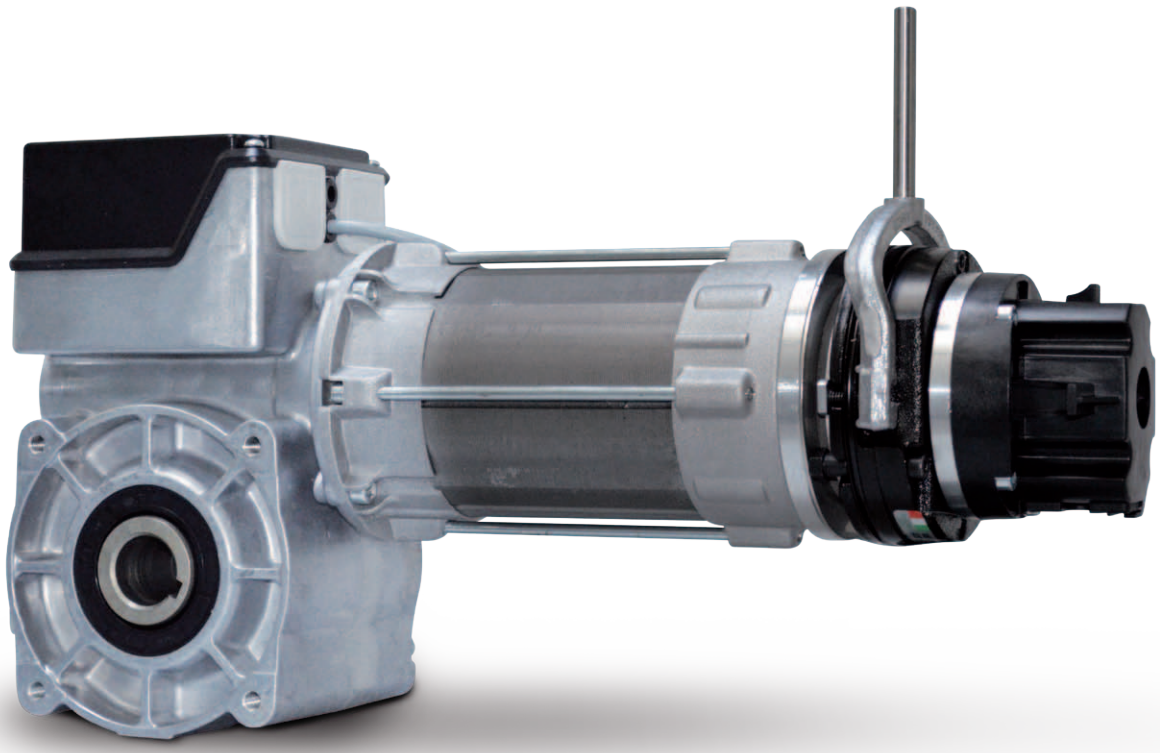


Ultra-compact model with front brake and integrated safety brake.

		<b>∅ HOLLOW SHAFT</b>		
		<b>/</b> 30 mm (Standard)	<b>V</b> 25 mm (Optional)	<b>P</b> 25.4 mm (Optional)
			<b>LIMIT SWITCH OPTIONS</b>	
			<b>E</b> Digital Limits	
			<b>OVERRIDE OPTIONS</b>	
			<b>M</b> Hand Crank	
				<b>POWER SUPPLY<sup>(1)</sup></b>
				<b>T</b> 3~ 400V <b>R</b> 3~ 230V

- BBS 50180      ME
- BBS 6090      ME
- BBS 60130      ME
- BBS 7045      ME

<sup>(1)</sup> It is possible for the installer to independently convert the connection of the gearmotor power supply from star (400V) to triangle (230V) and vice versa.







All models are provided with an electromagnetic brake which stops suddenly the inertia of the motor.

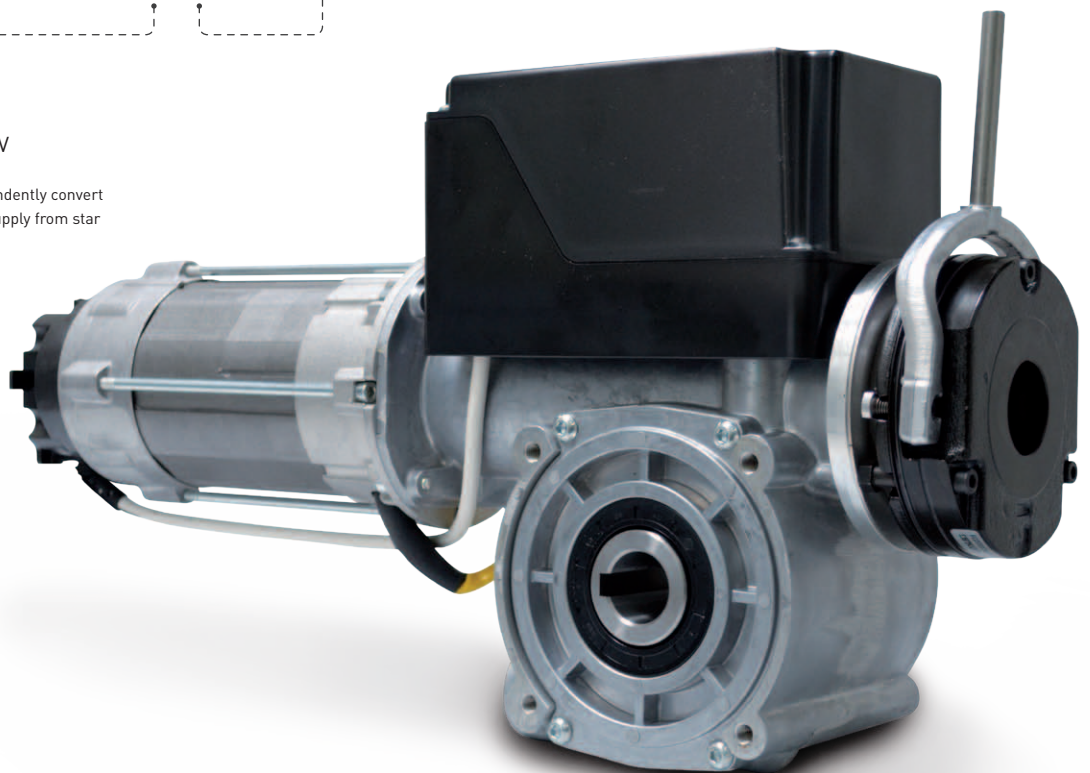
		<b>∅ HOLLOW SHAFT</b>			
		<b>/</b> 30 mm (Standard)	<b>V</b> 25 mm (Optional)	<b>P</b> 25.4 mm (Optional)	
<b>BRD40130</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>				
<b>BRD50180</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>				
<b>BRD 6090</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>	<b>LIMIT SWITCH OPTIONS</b>			
<b>BRD60130</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>	<b>M</b> Mechanical Limits	<b>E</b> Digital Limits		
<b>BRD 7045</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>				
<b>BRD 9090</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>	<b>OVERRIDE OPTIONS</b>			
<b>BRD 12045</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>	<b>M</b> Hand Crank			
<b>BRD 120140</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>				
<b>BRD 18090</b>	<input type="checkbox"/> <input type="checkbox"/> M <input type="checkbox"/>				

**POWER SUPPLY<sup>(1)</sup>**

**T** 3~ 400V    **R** 3~ 230V

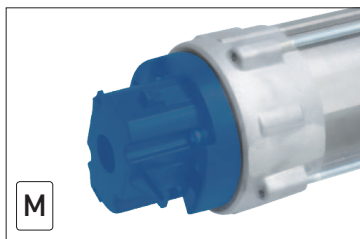
<sup>(1)</sup> It is possible for the installer to independently convert the connection of the gearmotor power supply from star (400V) to triangle (230V) and vice versa.

**TÜV SÜD Certificate:**  
**TorFV 24/197**



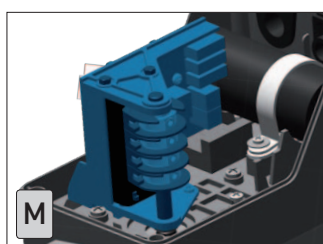


## || OVERRIDE OPTION



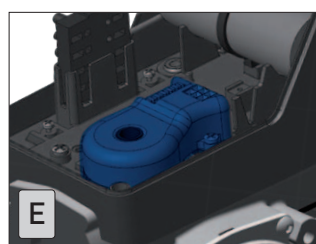
Hand crank

## || LIMIT SWITCH OPTIONS



Mechanical limits

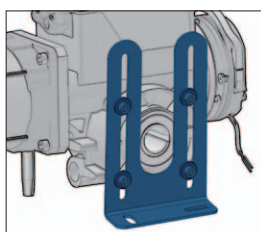
- 2 Green cams for operating limits.
- 2 Red cams for safety limits.
- 2 Yellow cams for auxiliary controls



Digital limits

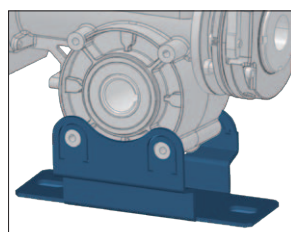
Absolute encoder  
No readjustment after power failure  
(necessary if a control unit with inverter is used)

## || INSTALLATION TYPE



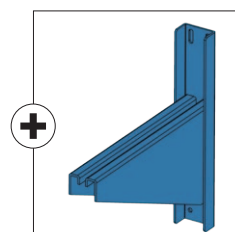
Flange bracket

ANSZXM



Basement

AS0MBP



Bracket

AS0M

## || ADDITIONAL DETAILS

### European directives

RAPIDO is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

### Duty rating

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

### Overload safety factor

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the RAPIDO can reach these levels for short periods.

### Output speed

The maximum admissible speed depends on the construction and the door type.  
The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

### Manual operation

Rapido is supplied with hand crank for manual operation when power cuts off.



TECHNICAL  
DETAILS

	BRD40130RM		BBS50180RM BRD50180RM		BBS6090RM BRD6090RM	
Torque (Nm)	40		50		60	
Output Speed (rpm)	130		180		90	
Mechanical power (kW)	0.6		1.0		0.6	
Power Supply (V~) <sup>(1)</sup>	3~ 400	3~ 230	3~ 400	3~ 230	3~ 400	3~ 230
Absorption (A)	2.69	4.85	2.69	4.44	2.21	4.08
Frequency (Hz)	50		50		50	
Max Cycles Per Hour	45		45		45	
Limit Switch max turns <sup>(2)</sup>	18		18		18	
Working temperature <sup>(3)</sup>	-20°C/+60°C		-20°C/+60°C		-20°C/+60°C	
Protection Rate	IP54		IP54		IP54	
GAPOSA control unit recommended	QC600 <sup>(4)</sup>		QC600S <sup>(4)</sup>		QC600 <sup>(4)</sup>	

	BBS60130RM BRD60130RM		BBS7045RM BRD7045RM		BRD9090RM	
Torque (Nm)	60		70		90	
Output Speed (rpm)	130		45		90	
Mechanical power (kW)	1.0		0.6		1.0	
Power Supply (V~) <sup>(1)</sup>	3~ 400	3~ 230	3~ 400	3~ 230	3~ 400	3~ 230
Absorption (A)	2.29	4.1	2.02	3.6	2.5	4.6
Frequency (Hz)	50		50		50	
Max Cycles Per Hour	45		30		45	
Limit Switch max turns <sup>(2)</sup>	18		18		18	
Working temperature <sup>(3)</sup>	-20°C/+60°C		-20°C/+60°C		-20°C/+60°C	
Protection Rate	IP54		IP54		IP54	
GAPOSA control unit recommended	QC600 <sup>(4)</sup>		QC600 <sup>(4)</sup>		QC600S <sup>(4)</sup>	

	BRD12045RM		BRD120140TM		BRD18090TM	
Torque (Nm)	120		120		180	
Output Speed (rpm)	45		140		90	
Mechanical power (kW)	0.92		2.0		2.2	
Power Supply (V~) <sup>(1)</sup>	3~ 400	3~ 230	3~ 400	3~ 230	3~ 400	3~ 230
Absorption (A)	2.3	4.4	3.77	6.7	4.5	7.6
Frequency (Hz)	50		50		50	
Max Cycles Per Hour	30		45		45	
Limit Switch max turns <sup>(2)</sup>	18		18		18	
Working temperature <sup>(3)</sup>	-20°C/+60°C		-20°C/+60°C		-20°C/+60°C	
Protection Rate	IP54		IP54		IP54	
GAPOSA control unit recommended	QC600S <sup>(4)</sup>		QC600S <sup>(4)</sup>		QC600W	

<sup>(1)</sup> Highlighted the default electrical connection diagram.

<sup>(2)</sup> A higher limit switch range is available upon request

<sup>(3)</sup> Nominal values are fully respected within a temperature range -10°C/+40°C. In case of harsh temperatures there might be a performance drop on the declared values.

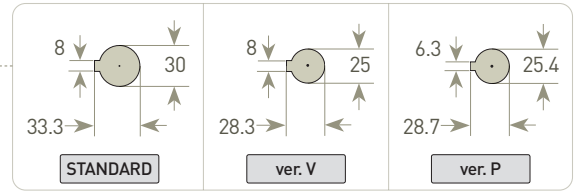
<sup>(4)</sup> The power supply connection of the gear motor must be in a delta shape [3-230V].



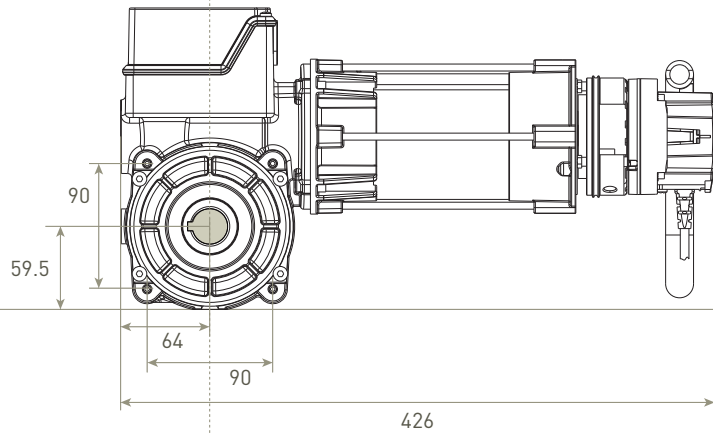
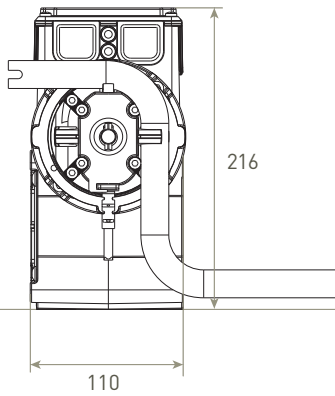


# RAPIDO bbs | DIMENSIONS (mm)

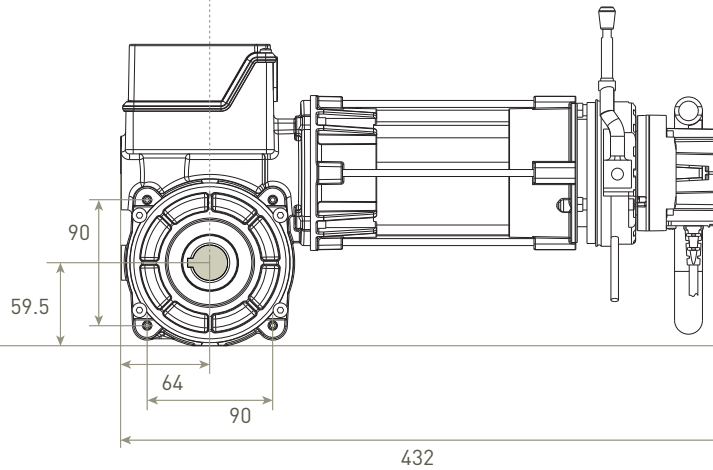
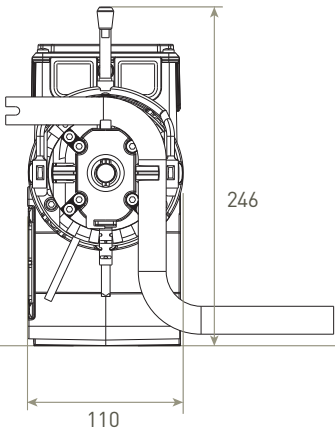
## ∅ HOLLOW SHAFT



### BBS50180RM

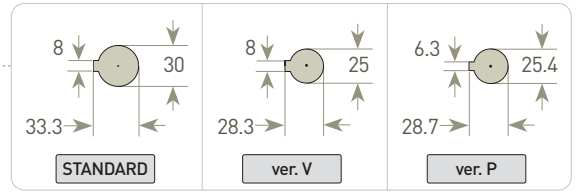


### BBS6090RM

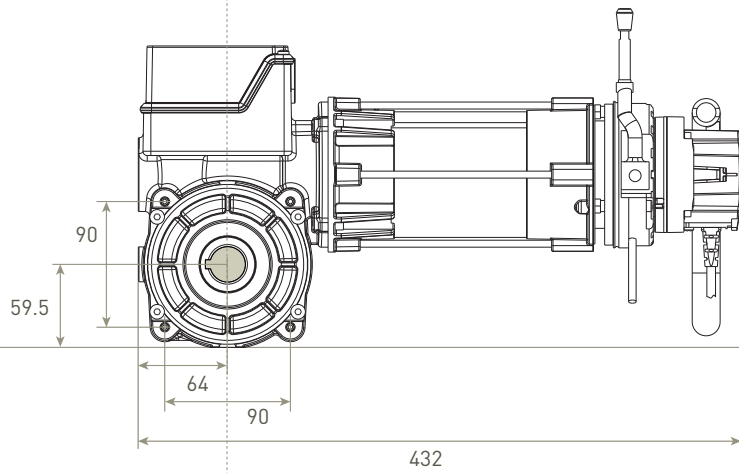
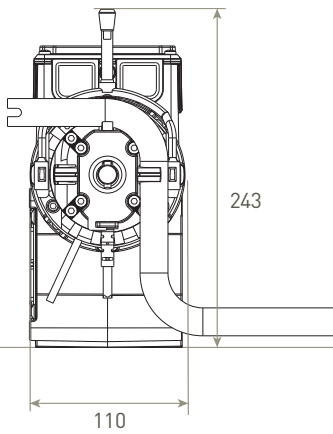




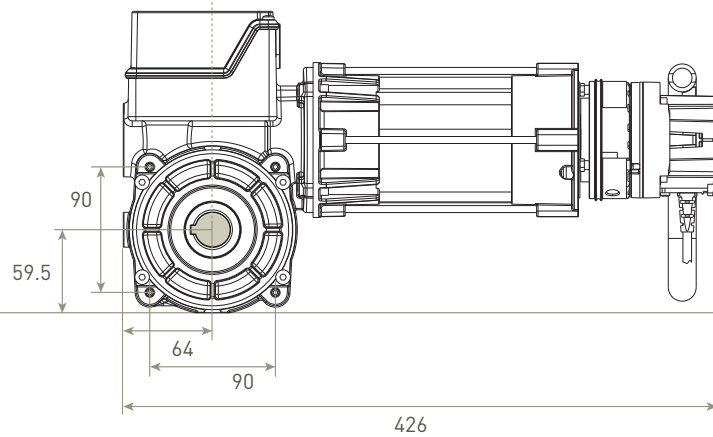
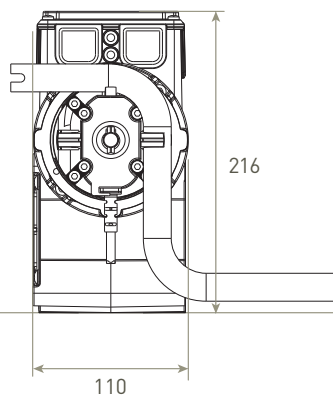
∅ HOLLOW SHAFT



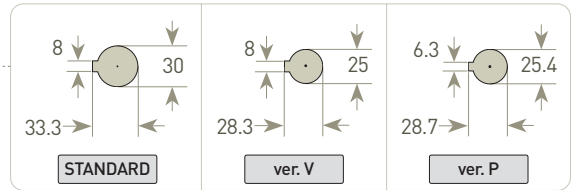
BBS60130RM



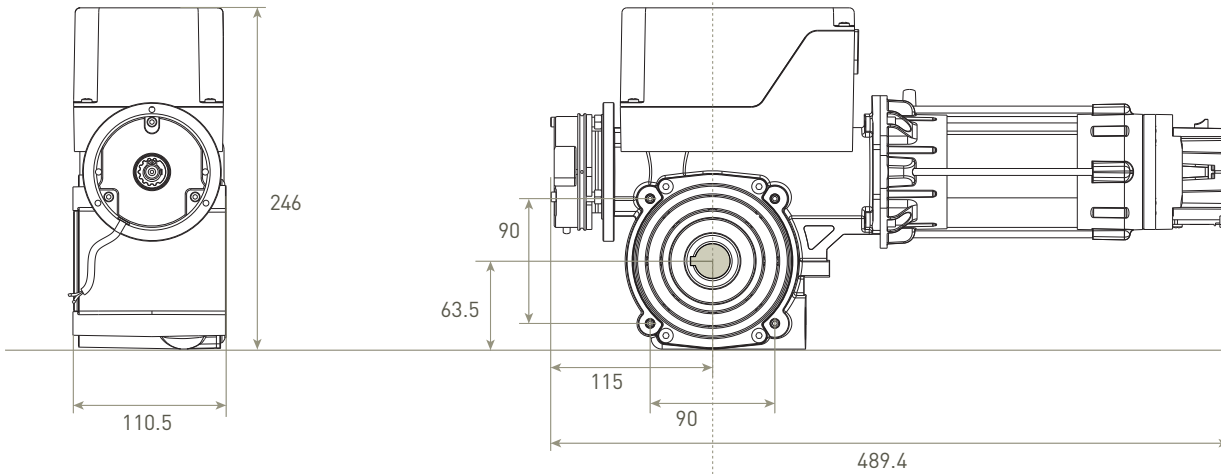
BBS7045RM



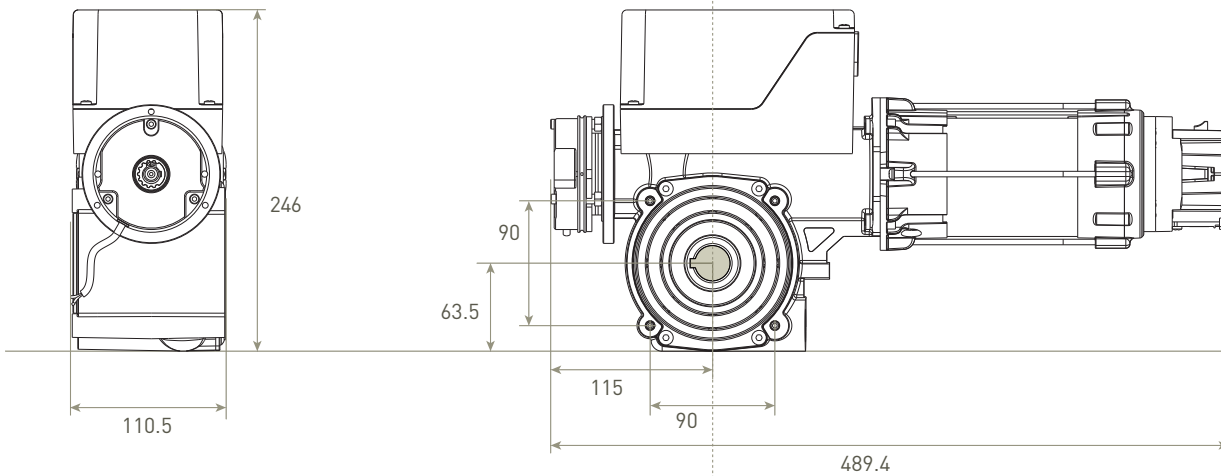
∅ HOLLOW SHAFT



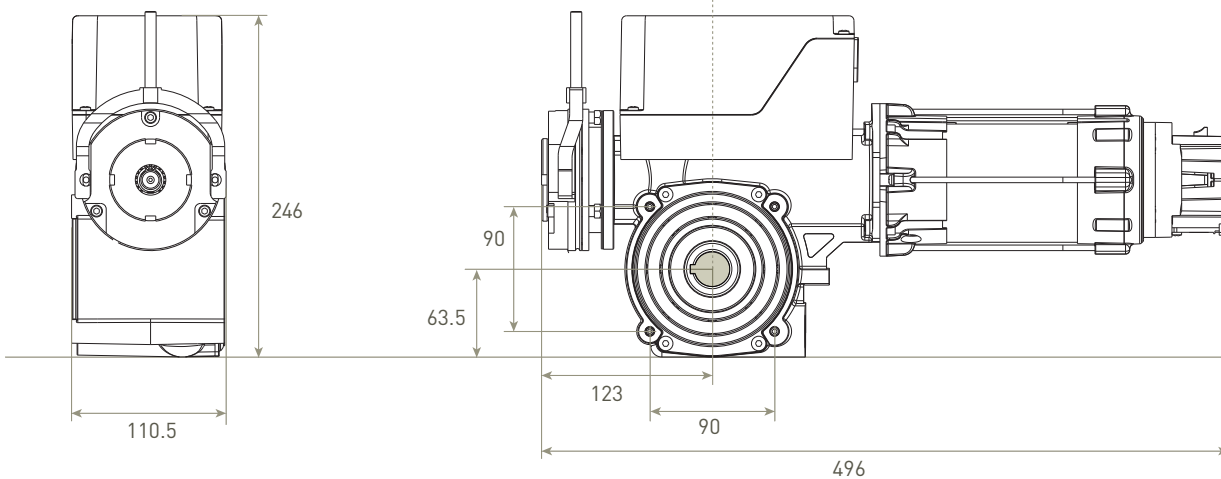
## BRD40130RM



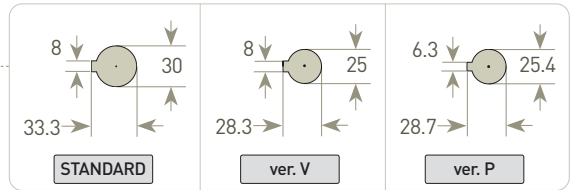
## BRD50180RM



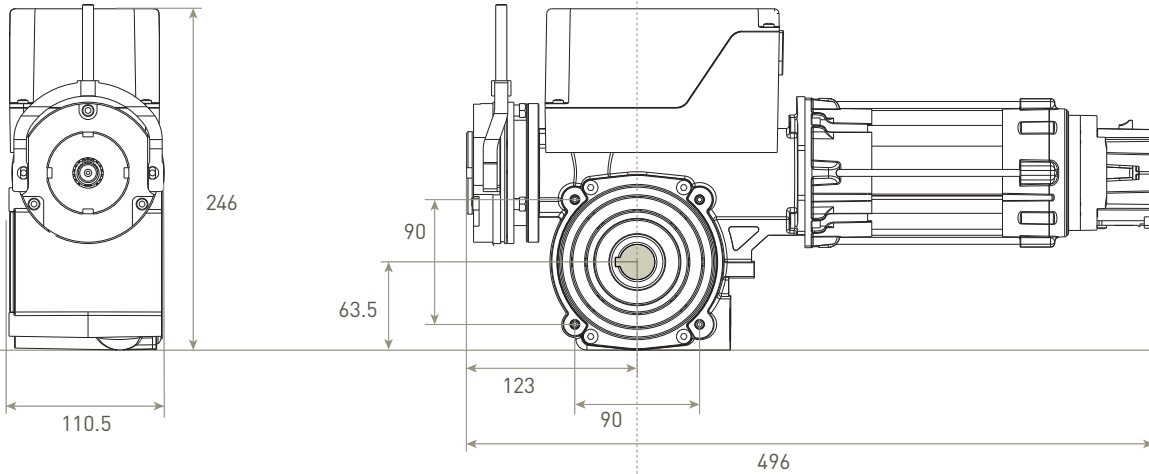
## BRD6090RM



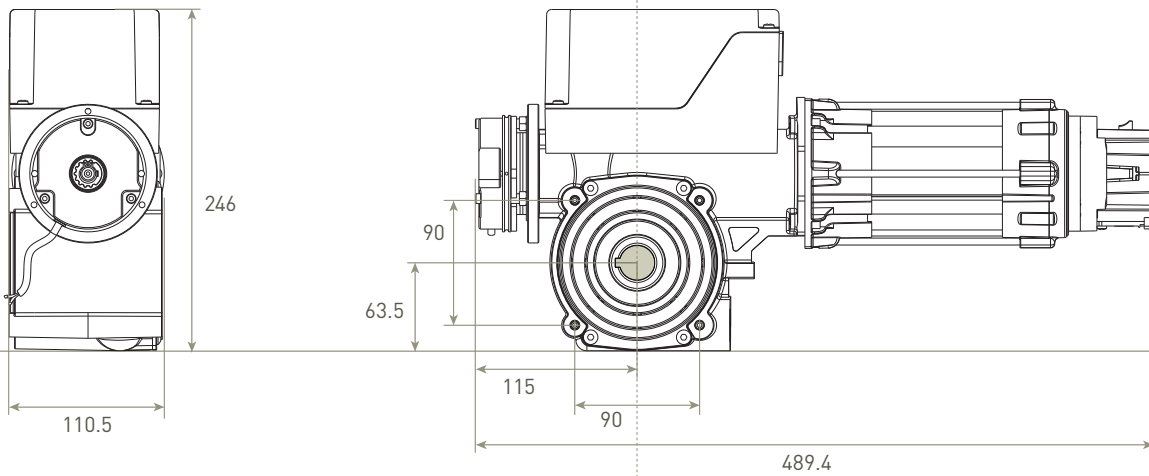
∅ HOLLOW SHAFT



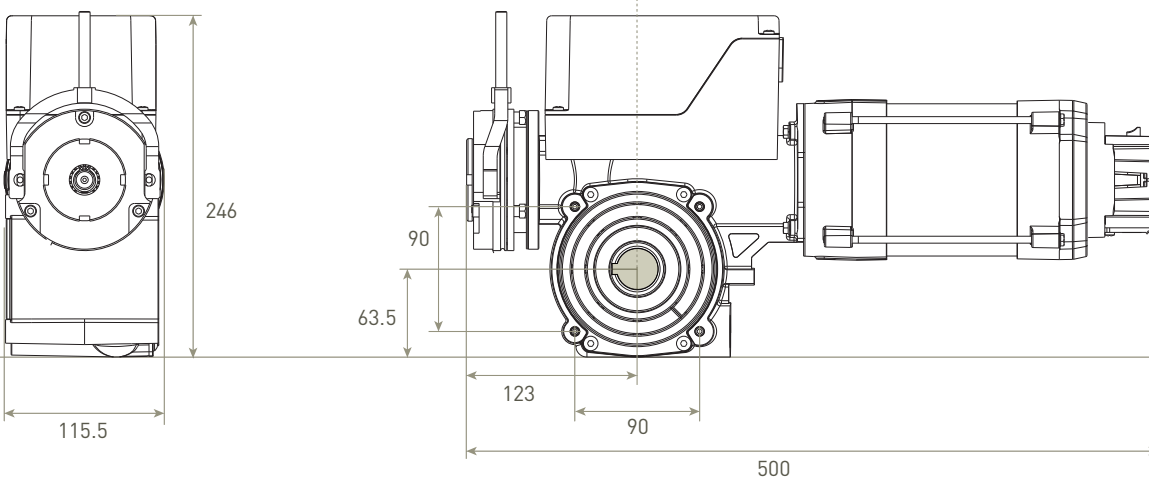
BRD60130RM



BRD7045RM



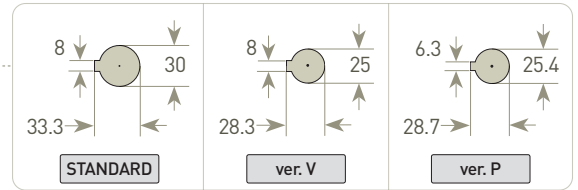
BRD9090RM / BRD12045RM



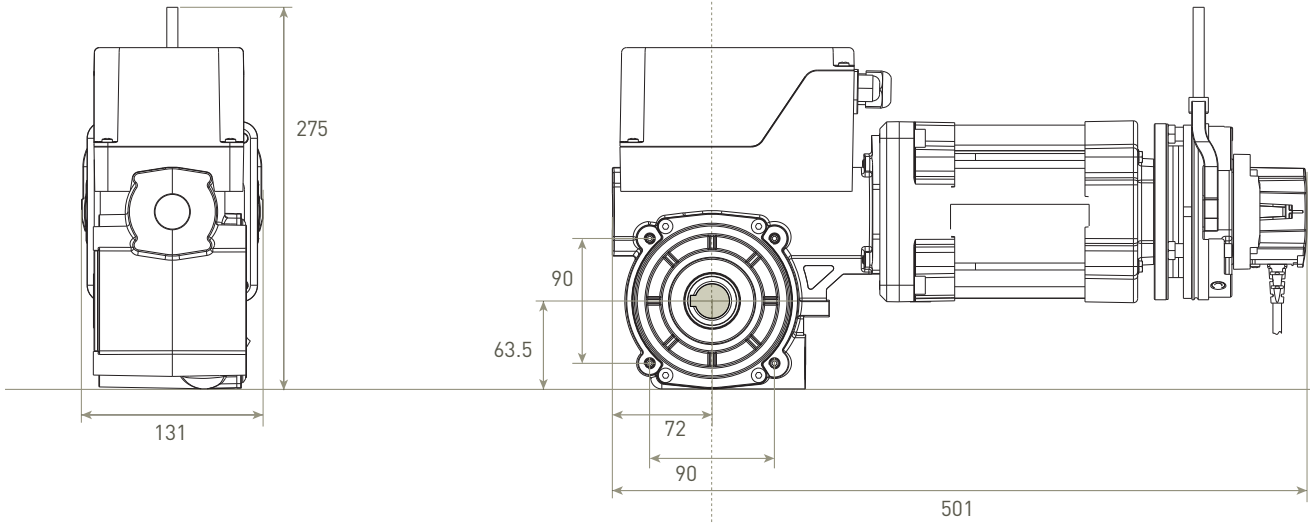


# RAPIDO BRD | DIMENSIONS (mm)

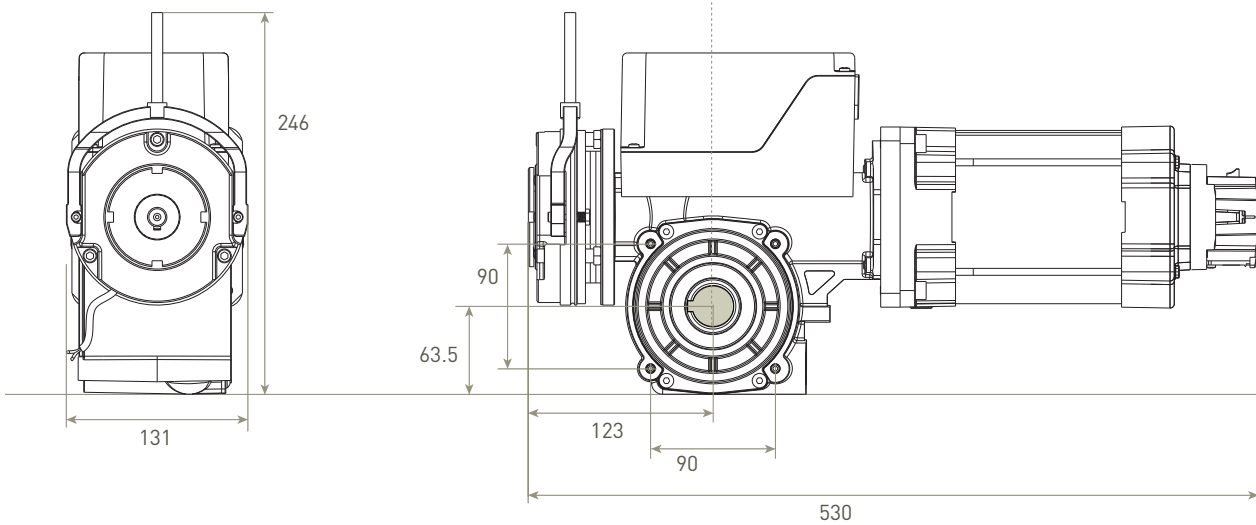
## ∅ HOLLOW SHAFT



### BRD120140TFM Front brake



### BRD18090TM



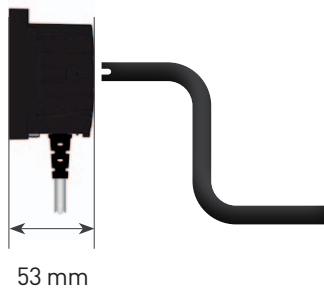




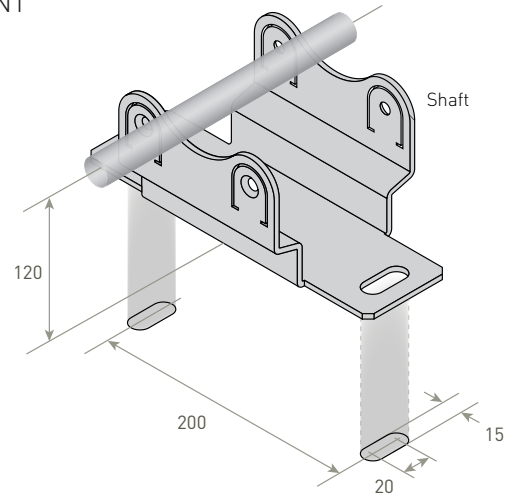
# RAPIDO bbs BRD | DIMENSIONS (mm)

## ■ OVERRIDE OPTIONS

- Hand crank



## ■ BASEMENT



Area with horizontal dotted lines for notes.







# SECTIONAL DOORS

For the industrial sectional door market we offer a numbers of solutions: **BHS** is the standard motor option, very versatile given the multiple different configurations in terms of torque, limit switch and override. **BHS Completo** is a stand-alone solution, with an integrated control board, pre-wired pushbutton and digital limits. **BBS** is the newest and most compact motor design, offered as a complete kit including control panel, cables and accessories.

**bhs**

**bhs**  
**completo**

Kit **bbs**





The self-braking worm gear makes the BHS irreversible.

**○ OVERRIDE OPTIONS**

BHS 70M

BHS 100T

BHS 120TC

BRD140T

- D** Declutch device (Only for BHS70/100)
- M** Hand Crank

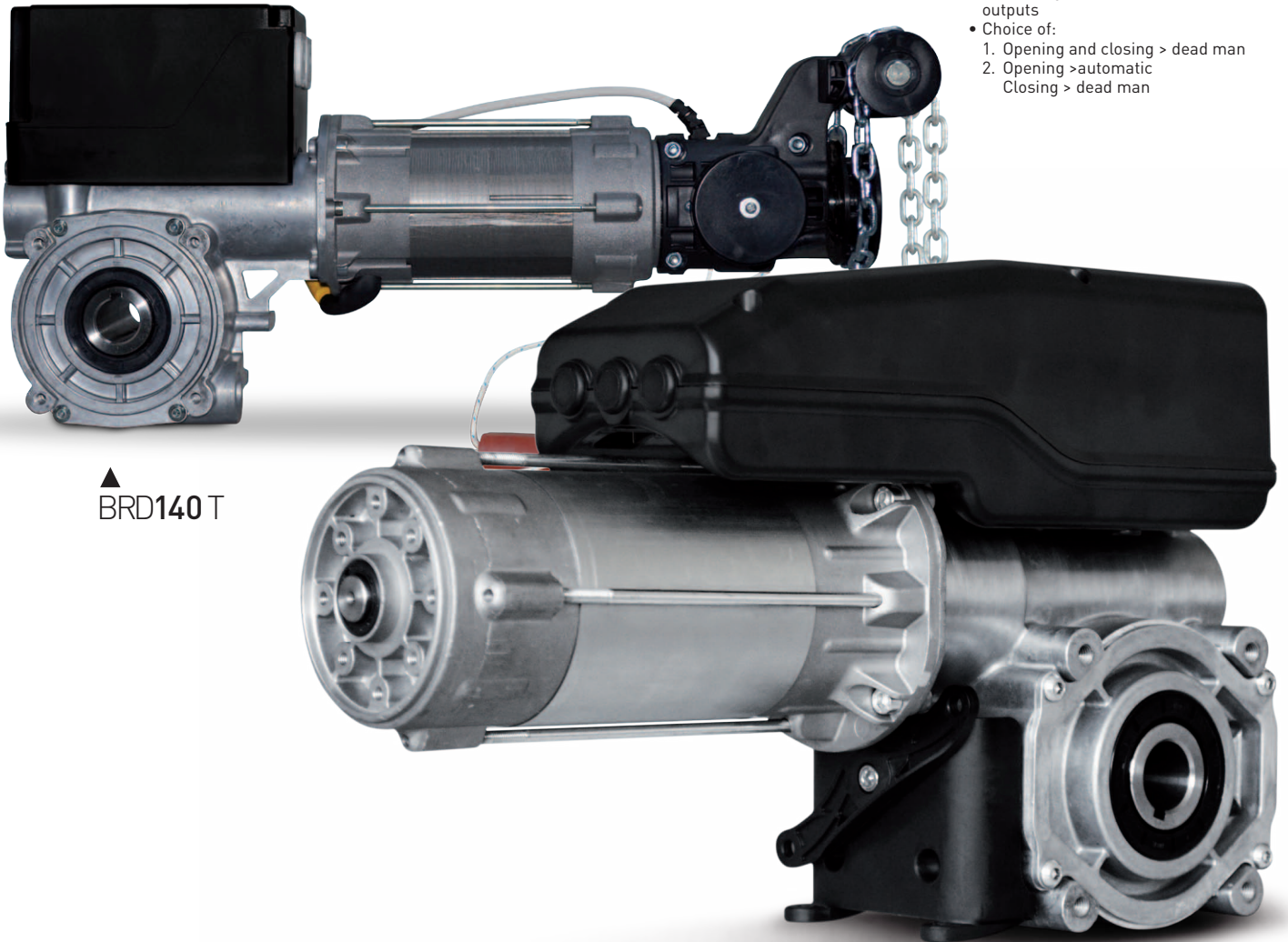
- O** Hand Crank with eyelet
- C** Hand Chain Override

**○ LIMIT SWITCH OPTIONS**

- M** Mechanical Limits
- E** Digital Limits

- H** Mechanical Limits 3 Cams (only for BHS70M)
- I** With integrated control unit (only for BHS70M)

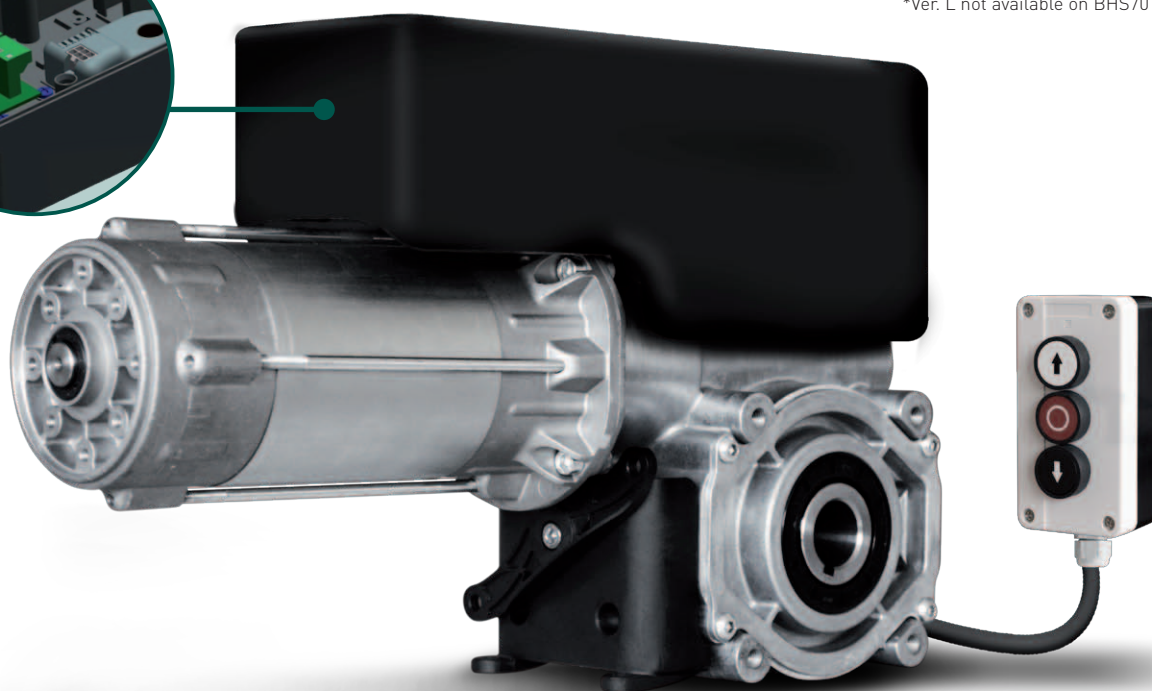
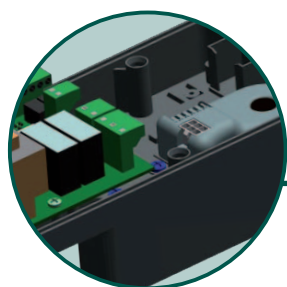
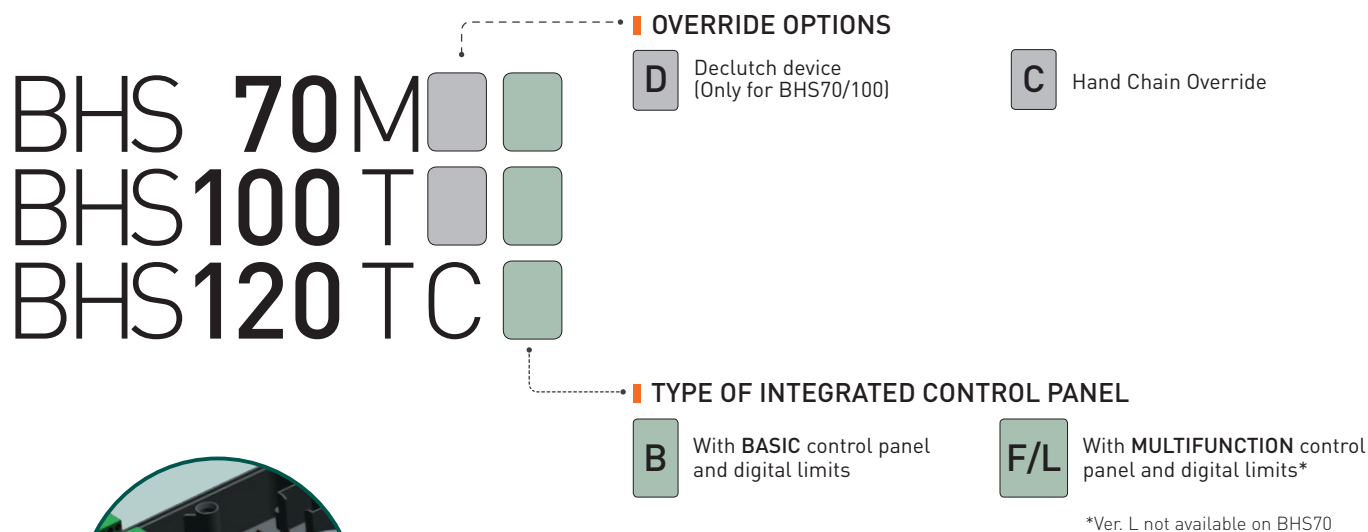
- Low voltage auxiliary microswitch outputs
- Choice of:
  1. Opening and closing > dead man
  2. Opening > automatic Closing > dead man



▲ BRD140T



Motor for springs-balanced sectional doors with integrated control panel, digital limits and pre-wired pushbutton with 7 m cable.



## FUNCTIONS OF INTEGRATED CONTROL PANELS

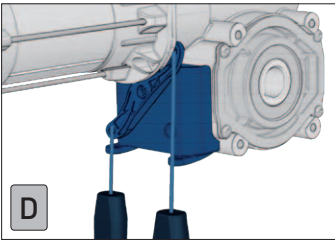
	Version <b>BASIC (B)</b>	Version <b>MULTIFUNCTION (F)    MULTIFUNCTION (L)</b>	
Automatic opening	■	■	■
Automatic closing		■	■
Standard safety beams QCF4 / QCF5		■	
Optoelectric safety edge QCSE2		■	
Safety edge 8k2		■	
FSS Light curtain			■
Traffic lights		■	■
24Vac contact	■	■	■
Radio control		Optional (QCMORAD - 433,92 Mhz Radio module)	



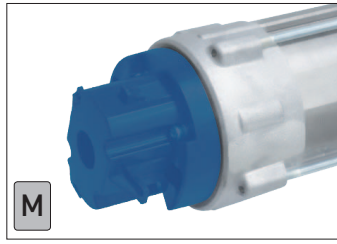


VERRIDE  
PTIONS

Declutch device

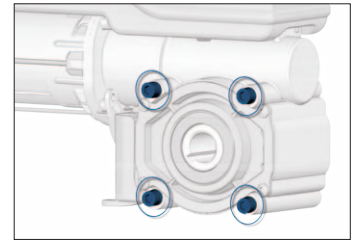


Hand crank

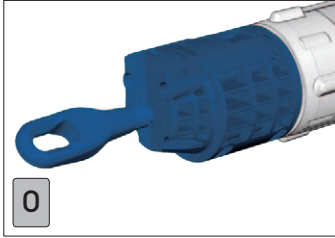


INSTALLATION  
TYPE

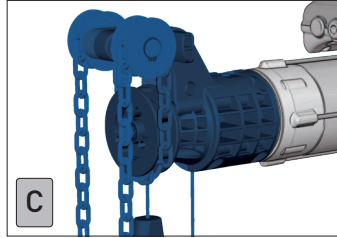
M8 fitting thread



Hand crank with eyelet



Hand chain override



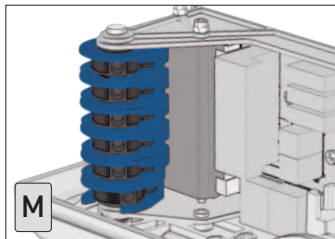
Bracket ANSZXM



LIMIT SWITCH  
PTIONS

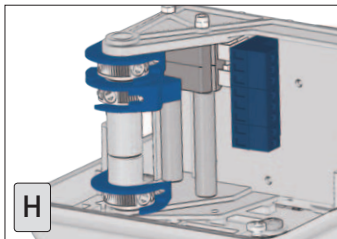
Mechanical limits

- 2 Green cams for operating limits
- 2 Red cams for safety limits
- 2 Yellow cams for auxiliaries



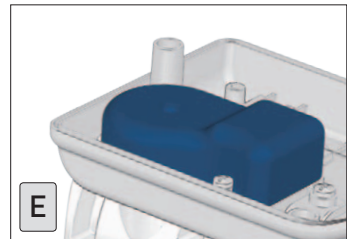
Mechanical limits

- 3 Cams in 1ph motors



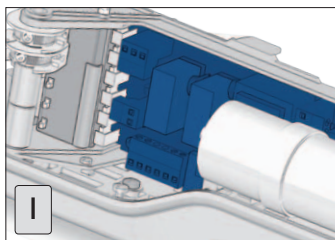
Digital limits

- Absolute encoder
- No readjustment after power failure



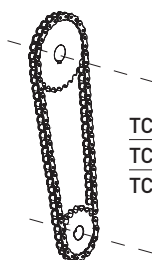
Integrated control unit

- 3 Cams in 1ph motors
- Outputs of the low-voltage auxiliary microswitch
- Possibility to choose between:
  - "Deadman" opening/closing
  - Automatic opening / "Dead man" closing



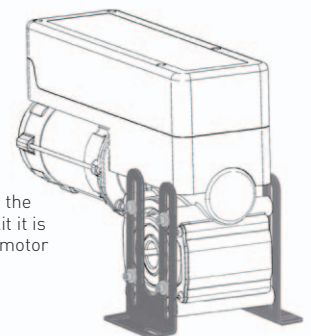
PTIONAL

CHAIN TRANSMISSION KIT<sup>(1)</sup>



- TC12S1 1/2" x 11.7 - ratio 1:1
- TC12S15 1/2" x 11.7 - ratio 1:1.5
- TC12S2 1/2" x 11.7 - ratio 1:2

<sup>(1)</sup> In view of the applied forces, in the presence of chain transmission kit it is strongly recommended to fix the motor on both sides using two ANSZXM flanged bracket



**TECHNICAL DATA**

	BHS70M	BHS100T	BHS120T	BRD140T
Torque (Nm)	70	100	120	140
Output Speed (rpm)	21	21	30	18
Mechanical power (kW)	0.2	0.3	0.6	0.6
Power Supply (V~)	1~ 230	3~ 400	3~ 400	3~ 400
Absorption (A)	2.98	2.12	2.13	2.08
Frequency (Hz)	50	50	50	50
Max Cycles Per Hour	12	20	20	20
Limit Switch max turns	18	18	18	18
Working temperature <sup>(1)</sup>	-20°C/+60°C	-20°C/+60°C	-20°C/+60°C	-20°C/+60°C
Protection Rate	IP54	IP54	IP54	IP54
Hollow shaft (mm)	25.4	25.4	25.4	25.4
Max. sectional door weight (Kg)	350	400	450	650
Holding torque (Nm)	450	450	450	500

<sup>(1)</sup> Nominal values are fully respected within a temperature range -10°C/+40°C. In case of harsh temperatures there might be a performance drop on the declared values.

Notes: Operating sound pressure level SPL<70 dB(A). The operating current in door drives can reach up to 4x the rated current for limited periods

**ADDITIONAL DETAILS****European directives**

BBS/BHS is made in accordance with product standards EN 13241-1 Doors- and EN 12453 Safety for power operated doors.

**Duty rating**

There is a relation between the weight of the door and the number of movements per hour so the motor duty rating varies according to the door weight.

**Overload safety factor**

Motor overload safety factor = 4 x the nominal motor amperage because the starting current of the BBS/BHS can reach these levels for short periods.

**Output speed**

The maximum admissible speed depends on the construction and the door type. The admissible closing speed shall be tuned so to let the operating forces comply with the EN 12453.

**Manual operation**

In installations of BBS/BHS with hand crank or hand chain override, the door and the self braking gear construction remain always inter-connected. The door will never fall down if a spring breaks.

In installations of BBS/BHS with decluth device the door and the self-braking worm gear are disconnected during the manual operation. In this case the worm gear no longer sustains the door and a spring safety brake is required.

The counter-balancing system should be inspected at least once a years.

**Holding torque**

The BBS/BHS drive unit is capable of holding the weight of the door when the spring breaks preventing the door from falling down. The holding capability is the admissible load the worm gear construction can bear.

**SELECTING THE RIGHT OPERATOR**

The calculations are based on a weight of a weight of the door leaf of 12,5 kg/m<sup>2</sup>. In certain situations the friction can have influence, this has to be taken into account, by using a correction factor.

Furthermore, it is essential to have a proper spring balance for the correct movement of the door.

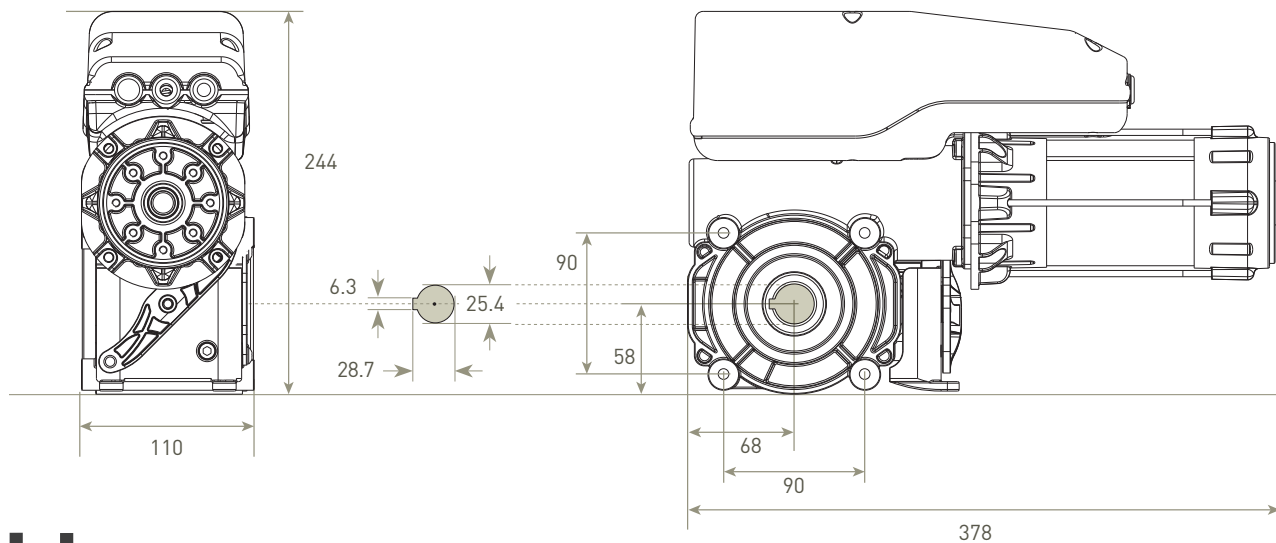
Motor	Size of the door			
	25 m <sup>2</sup>	40 m <sup>2</sup>	45 m <sup>2</sup>	50 m <sup>2</sup>
BHS70M	✓			
BBS/BHS100T		✓		
BHS120T			✓	
BRD140T				✓



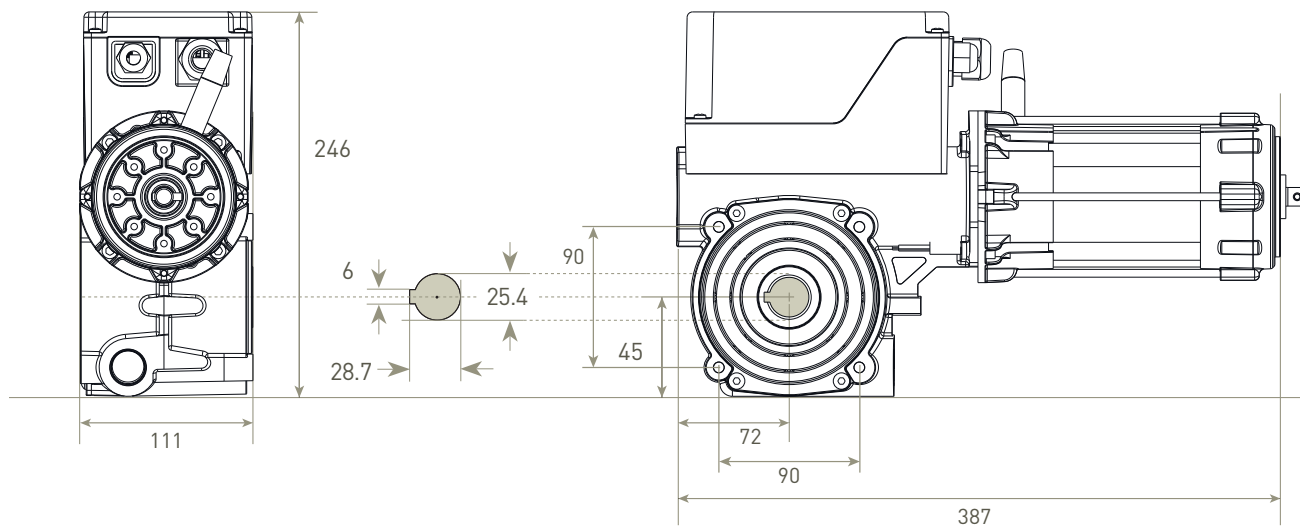


DIMENSIONS (mm)

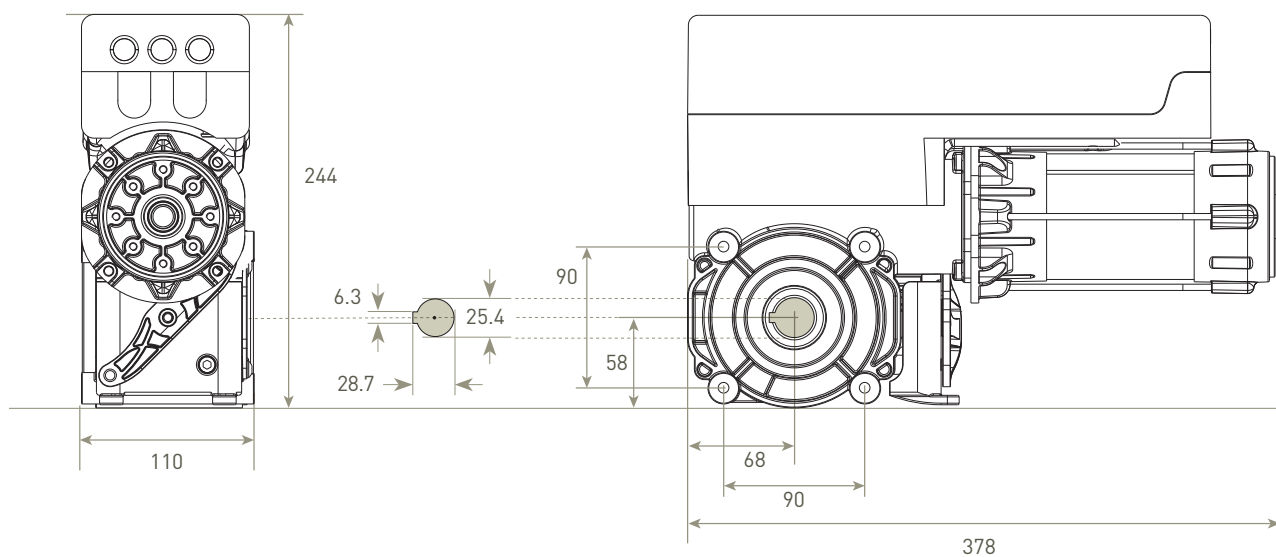
# bhs



# bhsBRD140T



# bhs completo

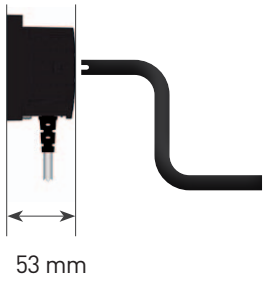




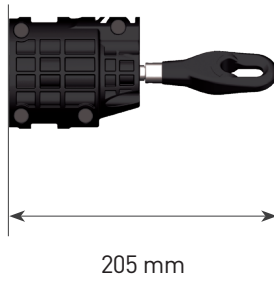


|| OVERRIDE OPTIONS  
DIMENSIONS (mm)

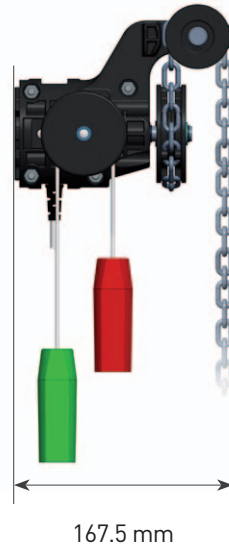
|| Hand crank



|| Hand crank with eyelet



|| Hand chain override



A large area of horizontal dotted lines for notes or additional information.



# Kit **bbs**



Complete kits for the automation of industrial sectional doors.

## BBS 70MKF/L BBS100TKF/L

### MAIN FEATURES

- ▶ Compact dimensions
- ▶ Motors with chain override and digital limits with encoder
- ▶ Multifunction control panel
- ▶ Easy and fast installation
- ▶ Possibility of radio control (optional)



### BBS 70MKF

Single-phase 230V~ / 50 Hz

Motor **BBS70MCE**

Control unit **QC41F**

Connection cable **FLSI4P6S.50**

Flanged bracket **ANSZXM**

Square key **TLIN6100**

Coupling with screw **10COLRE01**

### BBS 70MKL

Single-phase 230V~ / 50 Hz

Motor **BBS70MCE**

Control unit **QC41L**

Connection cable **FLSI4P6S.50**

Flanged bracket **ANSZXM**

Square key **TLIN6100**

Coupling with screw **10COLRE01**

### BBS 100TKF

Three-phase 400V~ / 50 Hz

Motor **BBS100TCE**

Control unit **QC40F**

Connection cable **FLSI4P6S.50**

Flanged bracket **ANSZXM**

Square key **TLIN6100**

Coupling with screw **10COLRE01**

### BBS 100TKL

Three-phase 400V~ / 50 Hz

Motor **BBS100TCE**

Control unit **QC40L**

Connection cable **FLSI4P6S.50**

Flanged bracket **ANSZXM**

Square key **TLIN6100**

Coupling with screw **10COLRE01**

### KIT COMPONENTS



Motor  
**BBS100TCE**  
Three-phase 400V~ / 50 Hz  
**BBS70MCE**  
Single-phase 230V~ / 50 Hz

Control unit  
**QC40F/L**  
Three-phase 400V~ / 50 Hz



Control unit  
**QC41F/L**  
Single-phase 230V~ / 50 Hz



Flanged bracket  
**ANSZXM**

Power supply/limit switch cable  
**FLSI4P6S.50**  
Length 5 m



Coupling with screw  
**10COLRE01**



Square key  
**TLIN6100**



## TECHINCAL DATA

	BBS70TCE	BBS100TCE	
Torque (Nm)	70	100	
Output Speed (rpm)	21	21	
Mechanical power (kW)	0.20	0.35	
Power Supply (V~) <sup>(1)</sup>	1~ 230	3~ 230	3~ 400
Absorption (A)	2.98	2.7	1.5
Frequency (Hz)	50		
Max Cycles Per Hour	20		
Limit Switch max turns	18		
Working temperature <sup>(2)</sup>	-20°C/+60°C		
Protection Rate	IP54		
Hollow shaft (mm)	25.4		
Max. sectional door weight (Kg) <sup>(3)</sup>	400		
Holding torque (Nm)	450		

<sup>(1)</sup> Highlighted the default electrical connection diagram.

<sup>(2)</sup> Nominal values are fully respected within a temperature range from -10°C to +40°C. In case of harsh temperatures there might be a performance drop on the declared values.

<sup>(3)</sup> Value referred to suitably balanced doors

**Notes:** Operating sound pressure level SPL<70 dB(A). The operating current in door drives can reach up to 4x the rated current for limited periods

## TECHINCAL DATA

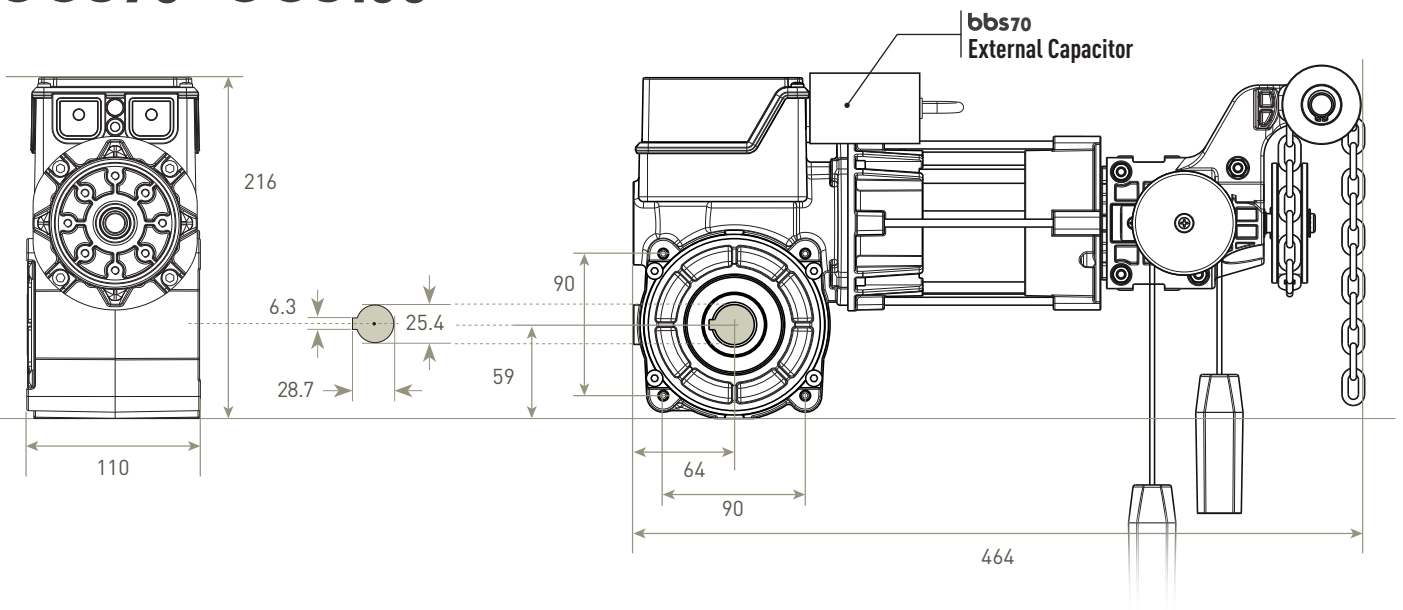
	QC41F / QC41L	QC40F / QC40L
Power supply	1~ 230V	3~ 400V
Frequency (Hz)	50/60 Hz	50/60 Hz
Power supply external accessories	24VAC / max 140mA	24VAC / max 140mA
Protection fuse	2 x 6.3 A	3 x 4 A
Motor power	0.55 kW	1.0 kW
Protection rate	IP54	
Working temperature	-10°C / +50°C	
Dimensions	305 x 210 x 120 mm	

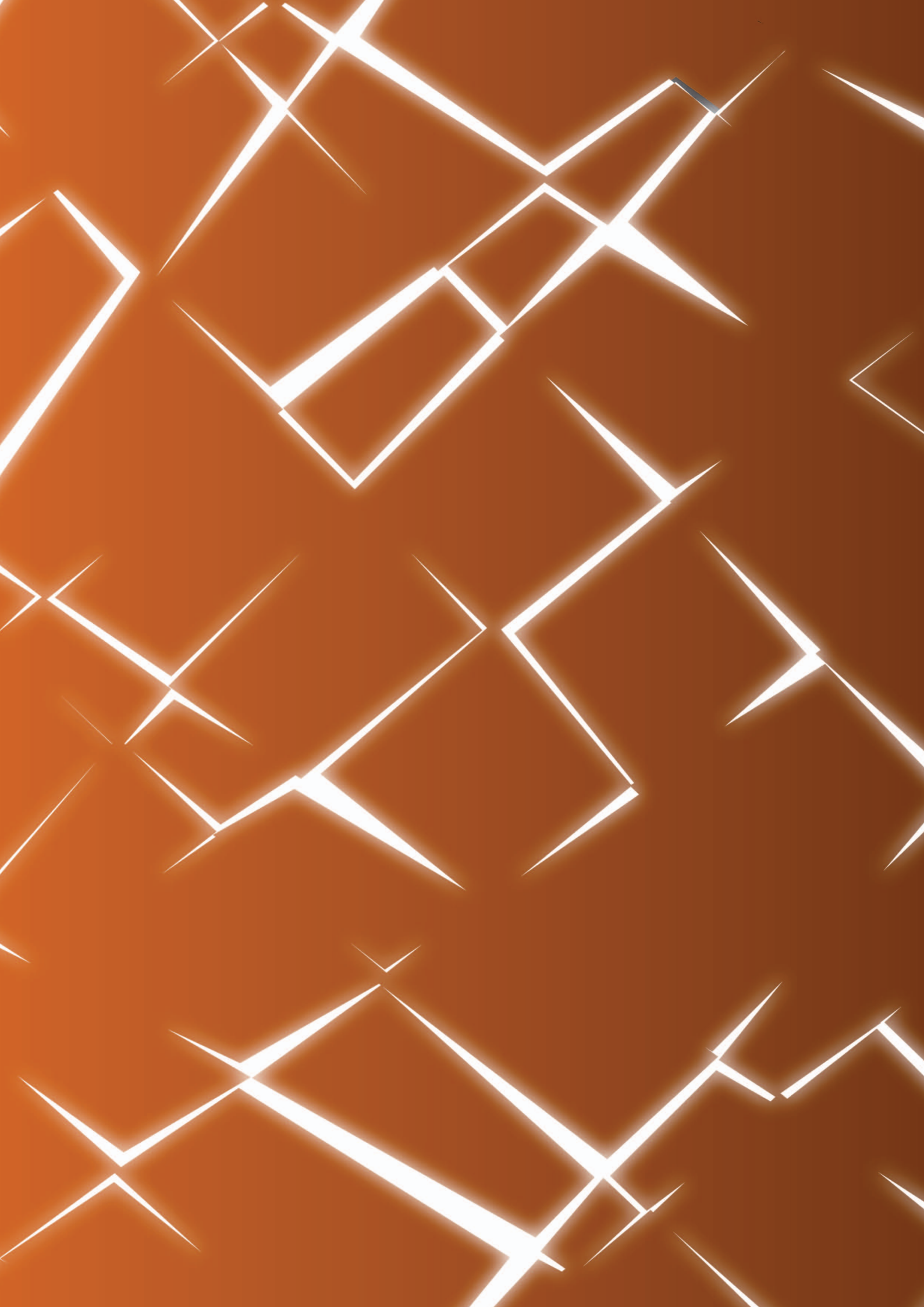
## FEATURES

	QC40/41F	QC40/41L
Automatic opening	■	■
Automatic closing	■	■
Standard safety beams QCF4	■	
Optoelectric safety edge QCSE2	■	
Safety edge 8k2	■	
FSS Light curtain		■
Traffic lights	■	■
24Vac contact	■	■
Radio control	Optional QCMORAD - 433,92 Mhz radio module	

## DIMENSIONS (mm)

# bbs70 bbs100







# CONTROLS AND DEVICES

# Control unit for **three-phase motors** with inverter



## QC600 | QC600S | QC600W

Automatic control panel with frequency inverter for drives with digital limits

Detail of codes according to the length of the cable **supplied**:

5 meter cable:	7 meter cable:
QC600C5	QC600C7
QC600SC5	QC600SC7
QC600WC5	QC600WC7



## Features

- Control unit with integrated inverter for rapid doors
- Programmable speed ramps for starting and braking, opening and closing
- User-friendly user interface for simple programming
- Electronic management of digital encoder limit switches
- Pneumatic, 8k2 electric or opto-electric rib management
- Electronic management of two photocells with self-test function
- Inputs for external push-button panel Open - Stop - Close
- Management of intermediate opening, automatic closing, car-wash
- Potential-free programmable auxiliary relay for electro-brake control
- Potential isolated programmable auxiliary relay for use
- Solid state relay for user signal management
- Connector for traffic light plug-in module or 2 programmable relays
- Connector for radio receiver plug-in module

## Technical details

	QC600 / QC600S	QC600W
Power supply	1~ 230 VAC - 50/60 Hz	3~ 400 VAC - 50/60 Hz
Operating output	3~ 230Vac +/- 15% 16A fuse	3~ 400Vac +/- 15% 16A fuse
Motor power	<b>QC600:</b> 0,75 kW / <b>QC600S:</b> 2,2 kW	3,0 kW
Motor output frequency	0-650 Hz	
Max overload	200% (10 sec)	
Work condition	-10°C / +50°C	
Protection category	IP 66 / NEMA4	
Dimensions	445 x 215 x 150 mm	



## QC500 | QC501

Automatic control panel for drives with digital or mechanical limits



### Features

- 3phase (**QC500**) /1phase (**QC501**) digital control unit for the control of motors with digital (**QC500E, QC501E**) or mechanical limit switches (**QC500, QC501**)
- Integrated buttons in the front cover for UP, STOP and DOWN control
- Display and keyboard for the programming of limit switches and managing of the functions
- Different operating mode
- 3 entries for anti - crushing safety devices:
  - optoelectronic safety edge
  - photocells
  - safety edge 8k2
- Prepared for the addition of a radio receiver
- Prepared for the addition of a module for the management of a traffic light / courtesy lights
- Input for an external control panel
- More room while wiring

### Technical details

	<b>QC500</b>	<b>QC501</b>
<b>Power supply</b>	3~ 230/400 VAC - 50/60 Hz	1~ 230 VAC - 50 Hz
<b>Motor power</b>	3~ 400 VAC: max 4 kW 3~ 230 VAC: max 2.3 kW	1~ 230 VAC: max 1.5 kW
<b>Power supply external accessories</b>	24VDC / max 250 mA	
<b>Protection rate</b>	IP54	
<b>Working temperature</b>	-10°C / +50°C	
<b>Dimensions</b>	305 x 210 x 120 mm	



## QC400 | QC401

Basic automatic control panel for drives with digital or mechanical limits



### Features

- 3phase 230/400V~ control unit (**QC400**) / 1phase control unit (**QC401**)
- Connection for electronic or mechanical limits
- 3 safety edge types (Pneumatic, 8k2 electric or optoelectronic)
- Automatic edge type setup
- Increased safety by second motor switch-off in case of welded contactor
- Simply DIL switch setup on 10 pole DIL switch
- Automatic encoder type and rotation direction by learning
- Photo safety input with automatic test function
- Connector for RF radio module
- Connection for special 1-phase motor
- Option AUX dry contacts signal output
- Option for plug-in screw terminals
- Speed input for torque control
- Option for Lamp-PCB for traffic light
- Option RS485 output for special features

### Technical details

	QC400	QC401
Power supply	3~ 400 VAC / 3~ 230 VAC - 50/60 Hz	1~ 230 VAC
Motor power	3~ 400 VAC: 2.2 kW / 3~ 230 VAC: 1.3 kW	0.75 kW
Power supply external accessories	24 VDC / Max 100 mA	
Protection rate	3 x 10 A	
Protection rate	IP54	
Working temperature	-10°C / +50°C	
Dimensions	305 x 210 x 120 mm	





## QC40F | QC40L

Automatic control panel for  
BHS motors with digital limits

## QC41F | QC41L

Single-phase 230V versions.



### Features

- 3phase 400V~ control unit (**QC40F/L**) / 1phase control unit (**QC41F/L**)
- Connection for electronic limits
- Automatic opening/closing
- Connection options to safety devices:
  - Safety beams (QCF4/QCF5) and/or optoelectric (QCSE2) (**QC40F/QC41F**)
  - 8k2 safety edge (**QC40F/QC41F**)
  - FSS Light curtain (**QC40L/QC41L**)
- 24Vac contact
- Simply DIP switch setup with 10 pole DIP switch
- Automatic rotation direction by learning
- Connector for RF radio module (QCMORAD - 433,92 Mhz radio module - optional)
- Option AUX signal output (Traffic lights, ...)

### Technical details

	QC40F / QC40L	QC41F / QC41L
Power supply	3~ 400V - 50/60 Hz	1~ 230V - 50/60 Hz
Power supply external accessories	24 VAC / max 140 mA	30 VDC - 1 A
Protection fuse	3 x 4 A	2 x 6.3 A
Motor power	1.0 kW	0.55 kW
Protection rate	IP54	
Working temperature	-10°C / +50°C	
Dimensions	305 x 210 x 120 mm	



## QC300 | QC301 | QC300R

Basic 3ph (1ph QC301) control panel for drives with mechanical limits



### Features

- 3phase 400V~ control unit (**QC300**) / 3phase 230V~ control unit (**QC300R**) / 1phase control unit (**QC301**)
- More room while wiring
- Quick connections for power and limits cable
- Integrated buttons in the front cover for UP, STOP and DOWN control
- Inter-locked contactors for the best reliability
- Selectable safety input= optoelectric safety edge/nc contacts for safety beams
- Selectable DOWN operating mode= dead man/momentary
- Automatic closing [selectable timing]
- Colors/sequences of led for visual display of the main functions/troubleshooting
- Parallel connection facility for grouping more QC300 in one push button

### Technical details

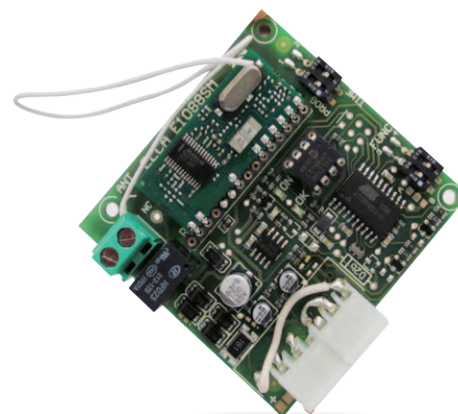
	<b>QC300</b>	<b>QC300R</b>	<b>QC301</b>
<b>Power supply</b>	3~ 400 VAC - 50/60 Hz	3~ 230 VAC - 50/60 Hz	1~ 230 VAC - 50 Hz
<b>Motor power</b>	4 kW	2 kW	2 kW
<b>Power supply external accessories</b>	24 VDC / max 70 mA		
<b>Protection fuse</b>	315 mA		
<b>Protection rate</b>	IP54		
<b>Working temperature</b>	-10°C / +50°C		
<b>Dimensions</b>	133 x 208 x 80 mm		

# Additional plug-in (for QC600/QC500/ QC400)



## QCMR500

*Plug-in radio receiver*



---

Power supply	24 Vcc
Coverage (int/ext)	20/200 m
Exit	NO
Codes	1997
Frequency	433.92 MHz
Transmitter (not included)	QCTE

---

## QCLSM

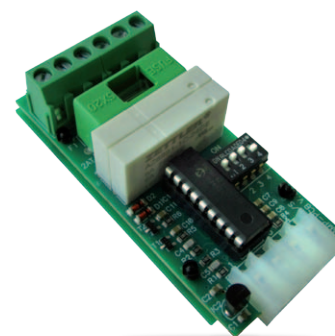
*Plug-in board to control flashing lights, courtesy lamps  
and traffic lighters*

### Technical details

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Power supply	24 Vdc
External lights power exit	Max 230Vac / 24Vdc
Protection fuse	2 A

---



## QCMORAD

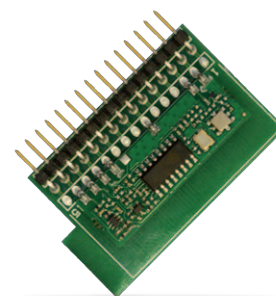
*Plug-in radio receiver for BHS Completo  
and QC40F/L-QC41F/L control units*

### Technical details

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Power supply	5 V
Coverage (int/ext)	20/200 m
Frequency	433.92 MHz
Transmitter (not included)	QCTE

---





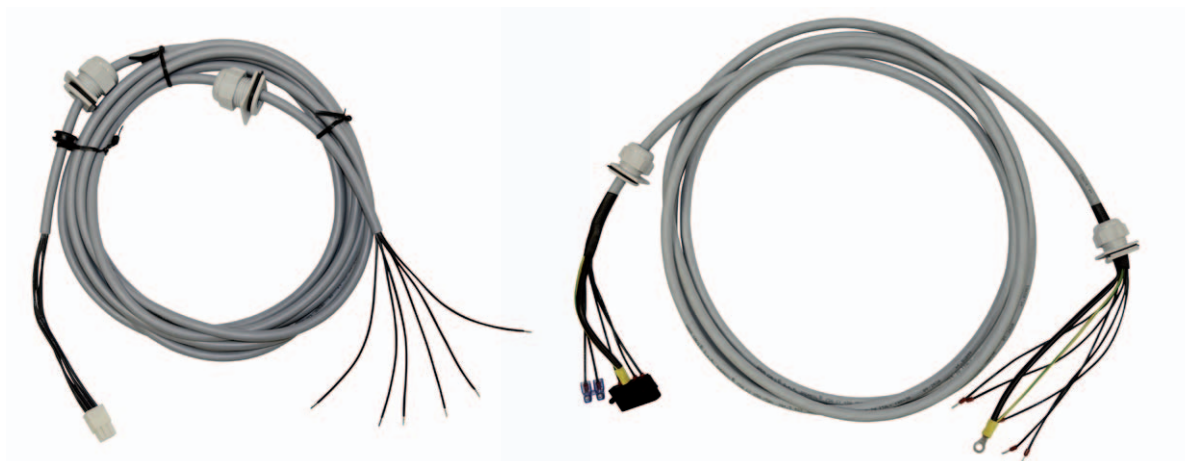
**Power cable with industrial plug  
for three-phase control units**

3CASPT01 (1 m) (3P + T + N)  
3CASPT02 (1 m) (3P + T)



**Power cable with industrial plug  
for single-phase control units**

3CASPM01 (1 m) (2P + T)



**Cable set (power supply/limit switch) for QC600/S/W control units**

FLSI600.50 (5 m)  
FLSI600.70 (7 m)



**Control unit/motor connection cable**

FLSI4P6S.50 (5 m)  
FLSI4G6.70 (7 m)  
FLSI4G6.100 (10 m)



## Cable/control unit matching table

Control units	Power cables (supplied with the control units)			Control unit/motor connection cables (to be purchased separately)
	3CASPT01	3CASPT02	3CASPM01	FLSI4P6S.50 FLSI4G6.70 FLSI4G6.100
QC500 / QC500E	■ *	■		■
QC501 / QC501E			■	■
QC400 / QC400E	■ *	■		■
QC401 / QC401E			■	■
QC40L / QC40L	■ *	■		■
QC300	■ *	■		■
QC301			■	■
QC300R		■		■

\*Cable on request in case of need for N pole

## Additional accessories



### Extra chain

CAT416	8 m	(ring)
CAT416.70	14 m	(ring)
CAT416.50M	50 m	(reel)



### Set for release cord

For BHS  
10SBLRV (4 m)

For SIDONE  
10SBLRVRC (4 m)  
10SBLRV70RC (7 m)



## QC00

*Control unit with radio receiver*



## Features

QC00 is a basic control unit enabling the remote control of rolling door motors up to 500 W.

- Operating logic: momentary, dead-man (only for closing)
- Remote control
- Safety beams
- Pause timer and automatic closing
- Adjustable working time, from 3 seconds to 4 minutes

## Technical details

<b>Power supply</b>	230 Vac - 50 Hz ( $\pm 10\%$ )
<b>Frequency</b>	433.92 MHz
<b>Power supply external accessories</b>	24 Vac / Max 140 mA
<b>Number of radio codes</b>	15
<b>Protection rate</b>	IP44
<b>Motor power</b>	max 500 W
<b>Working temperature</b>	-10°C /+60°C
<b>Working time</b>	30 sec
<b>Dimensions</b>	145 x 145 x 59 mm
<b>Weight</b>	300 g



## QC000

*Standard control unit*



### Features

QC000 is a simple dead man control unit with an IP44 (IP65 upon request) ABS box, suitable for rolling door motors up to 500 W.

- Dead man control
- Stop control
- Safety beams
- Flashing light

### Technical details

<b>Power supply</b>	230 Vac - 50 Hz (±10%)
<b>Power supply external accessories</b>	24 Vac /Max 250 mA
<b>Protection rate</b>	IP44
<b>Motor power</b>	max 500 W
<b>Working temperature</b>	-10°C / +50°C
<b>Protection fuse</b>	6.3 A
<b>Dimensions</b>	145 x 145 x 59 mm
<b>Weight</b>	300 g



## QCTE

4 channels hand-held transmitter



### Technical details

Channels	4
Frequency	433,92 MHz
Power supply	3V mod. CR2430
Battery life (years)	2
Radiated power	<10 mW
Protection rate	IP40
Coverage (int/ext)	20 m / 200 m
Encoding	RC Gaposa
Working temperature	-10°C / +50°C
Dimensions (mm)	35 x 53 x 12

## QCTRKP

Wireless wall-mounted digital selector



### Technical details

Channels	2
Frequency	433,92 MHz
Power supply	2x 3V mod. CR2430
Battery life (years)	2
Radiated power	<10 mW
Protection rate	IP54
Coverage (int/ext)	20 m / 200 m
Encoding	RC Gaposa
Working temperature	-10°C / +50°C
Dimensions (mm)	75 x 85 x 36





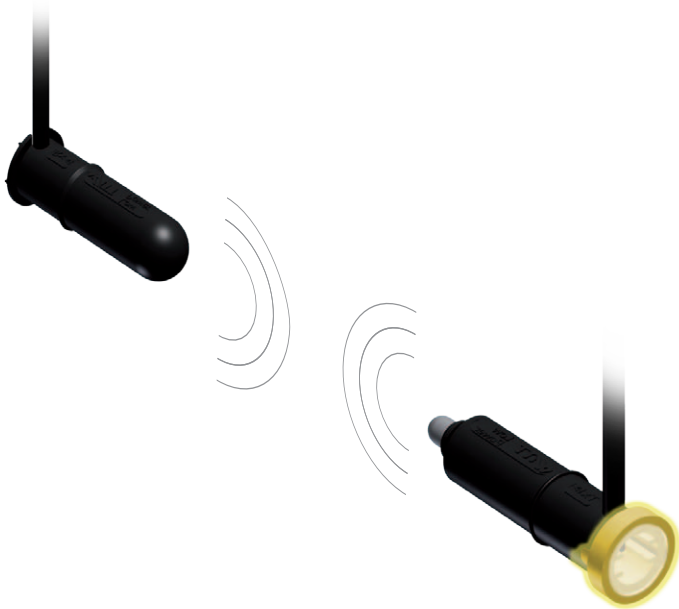
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## QCSE2

Optoelectronic safety beams



A set of Ø12 mm optical beams, spiral cable, and junction box and two stops (35mm) for complete protection against all obstacles.

- The beams are suitable for all common bottom rubber profiles and assure full functionality even in large door widths. They are less sensitive to wind load and bending and are resistant against voltage reversal and short-circuits
- The cable is tested and guarantee for 100.000 cycles under hard conditions
- The junction box (IP 65) has a very flat design to suit any door slat and a strong strain relief for the spiral cable.



Range	12 m
Operating voltage	9/16V resistant against voltage reversal
Current consumption	typ. 3.8mA
Output	transistor output max. load 20mA short-circuit proofed
Output frequency	automatic recognition typ. 900Hz
Output signal	rectangular signal low level 0-0.5V / high level 2.5-4V
Wire	3x0.14 mm <sup>2</sup> , ø 3.4mm PUR, halogen free, acid-and oil-resistant
Operating temp.	-25°... +75°C
Dimensions (mm)	Ø12 x 39

## QCF4

Infra-red safety beams

- Self-aligning
- 15 m range



## QCF5

- Self-aligning
- 30 m range



75 x 65 x 30 mm

Power supply	12 - 24V AC/DC
Relay contact	1A MAX 30V DC
Working temperature	-10°C / +60°C
Absorption	2W
Protection Rate	IP54
Dimensions	56x82x24 mm

# Accessories for garage, commercial and industrial doors



## QCRS1

Receiver



QCRS1 is a self-learning receiver, able to memorise up to 31 codes in a simple and quick way. It features a strong water-tight box.

- Transmitters' radio self-learning
- Sequential transmitters programming
- Proper functionality even in interfered areas.

Power supply	24 V DC/AC
Frequency )	433.92 MHz
Relay	1A / 30 VDC
Irradiation on antenna	-60 dBm
Sensitivity	102 dBm
Consumption (standby)	30 mA
Protection rate	IP55
Working temperature	-20°C /+60°C
Dimensions	50 x 133 x 25 mm
Weight	65 g

## QCL4I

Flashing light

It works in intermittent way at 230V  
IP44 protection rating  
Supplied with wall bracket

85 x 115 x 85 mm



Available in two colors:  
orange and yellow

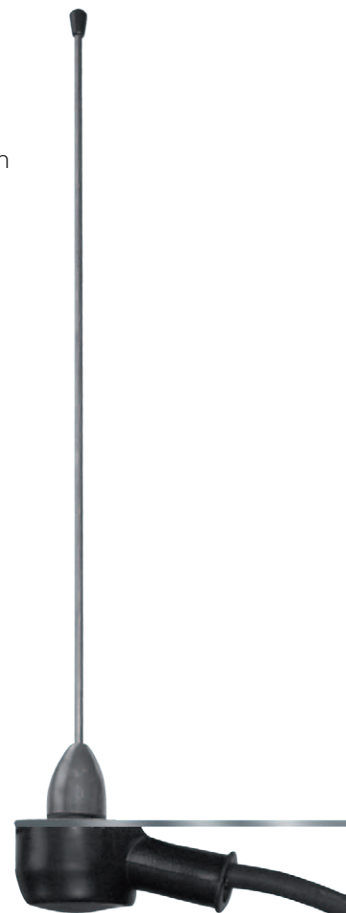


## ANT433

Aerial

Useful to extend the range of reception of any control unit with radio receiver

- 433/434 MHz
- Cable RG58 4,5 m



# Key selectors and pushbuttons for garages, commercial and industrial doors



## Blindoor

Aluminium security box with key. Compact design to contain the TWISTY rotary switch and the declutch release of the SPLIT.

It can be surface mounted or installed in the wall.

On demand it is available in the version with antipicking key.



**ACS12**

167x111x35 mm

**ACS12S**

with antipicking key

## ACSI

Recessed key switch, European cylinder (DIN 18252).

Nylon casing 15mm thin.



75x90x15 mm

## ACSE

Surface mounted key switch, European cylinder (DIN 18252). Aluminium casing 50mm thick.



75x90x50 mm

## ACS1

Surface-mounted casing with key cover and UP-0-DOWN switch.



85x80x25 mm



## ACP4

Up-stop-down switch for industrial use.



70x140x60 mm

## Twisty ACPG

"Twisty" rotary switch for surface-mounted installations.



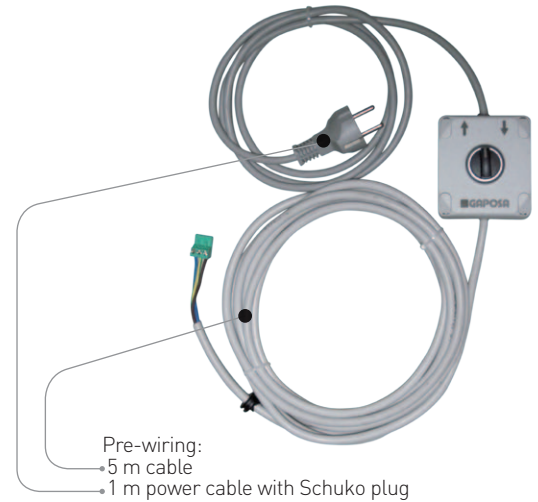
70x70x30 mm

## ACPS1C5

Prewired switch 3 positions with spring return.



72x80x56 mm



## ACP4AC11

Prewired Up-stop-down switch for BHS Completo.



70x140x60 mm

→ Cable length: 11 m

# Summary of the characteristics of control units and matching engines



## POWER SINGLE PHASE CONTROL UNITS

REFERENCE	DESCRIPTION	Motor maximum power	Dual core cable	Buttons on front cover	Digital display for programming	Standard photocells QCF4/QCF5	Optoelectronic Safety edge QCSE2	Resistive safety edge 8K2	PNP Light curtain	FSS Light curtain	Flashing Light QCL4I	Traffic light	
QC201	Multi-function control with radio receiver with courtesy light	800 W		■		■	■				■		
QC301	1-phase control unit for mechanical limit (6 cams) motors	2.0 kW	■	■		■	■						
QC41L	1-phase multifunction Control unit for digital limit motors	550 W	■	■		■	■		■	■	■	■ QCLSM	
QC41F	1-phase multifunction Control unit for digital limit motors	550 W	■	■		■	■	■		■	■		
QC401	1-phase multifunction control unit for mechanical limit (6 cams) motors	750 W	■	■		■	■	■			■		
QC401E	1-phase multifunction Control unit for digital limit motors	750 W	■	■		■	■	■			■		
QC501	1-phase multifunction control unit for mechanical limit (6 cams) motors with display	1.5 kW	■	■	■	■	■		■	■	■		
QC501E	1-phase multifunction control unit for digital limit motors with display	1.5 kW	■	■	■	■	■	■	■	■	■		

## THREE PHASE CONTROL UNITS

REFERENCE	DESCRIPTION	Motor maximum power	Dual core cable	Buttons on front cover	Digital display for programming	Standard photocells QCF4/QCF5	Optoelectronic Safety edge QCSE2	Resistive safety edge 8K2	PNP Light curtain	FSS Light curtain	Flashing Light QCL4I	Traffic light	
QC300	3-phase control unit for mechanical limit (6 cams) motors	4.0 kW	■	■		■	■						
QC40L	3-phase multifunction Control unit for digital limit motors	1.0 kW	■	■					■	■	■		
QC40F	3-phase multifunction Control unit for digital limit motors	1.0 kW	■	■		■	■	■			■		
QC400	3-phase multifunction control unit for mechanical Limit (6 cams) motors	2.2 kW	■	■		■	■	■			■	■ QCLSM	
QC400E	3-phase multifunction Control unit for digital limit motors	2.2 kW	■	■		■	■	■			■		
QC500	3-phase multifunction control unit for mechanical limit (6 cams) motors with display	4.0 kW	■	■	■	■	■		■	■	■		
QC500E	3-phase multifunction control unit for digital limit motors with display	4.0 kW	■	■	■	■	■	■	■	■	■		

## THREE PHASE CONTROL UNITS WITH FREQUENCY INVERTER

REFERENCE	DESCRIPTION	Motor maximum power	Dual core cable	Buttons on front cover	Digital display for programming	Standard photocells QCF4/QCF5	Optoelectronic Safety edge QCSE2	Resistive safety edge 8K2	PNP Light curtain	FSS Light curtain	Flashing Light QCL4I	Traffic light	
QC600	Multifunction control unit for digital limit RAPIDO Motors with display and frequency inverter	750 W	■	■	■	■	■	■	■	■	■	■ QCLSM	
QC600S	Multifunction control unit for digital limit RAPIDO motors with display and frequency inverter	2.2 kW	■	■	■	■	■	■	■	■	■		
QC600W	Multifunction control unit for digital limit RAPIDO motors with display and frequency inverter	3.0 kW	■	■	■	■	■	■	■	■	■		



## POWER SINGLE PHASE CONTROL UNITS

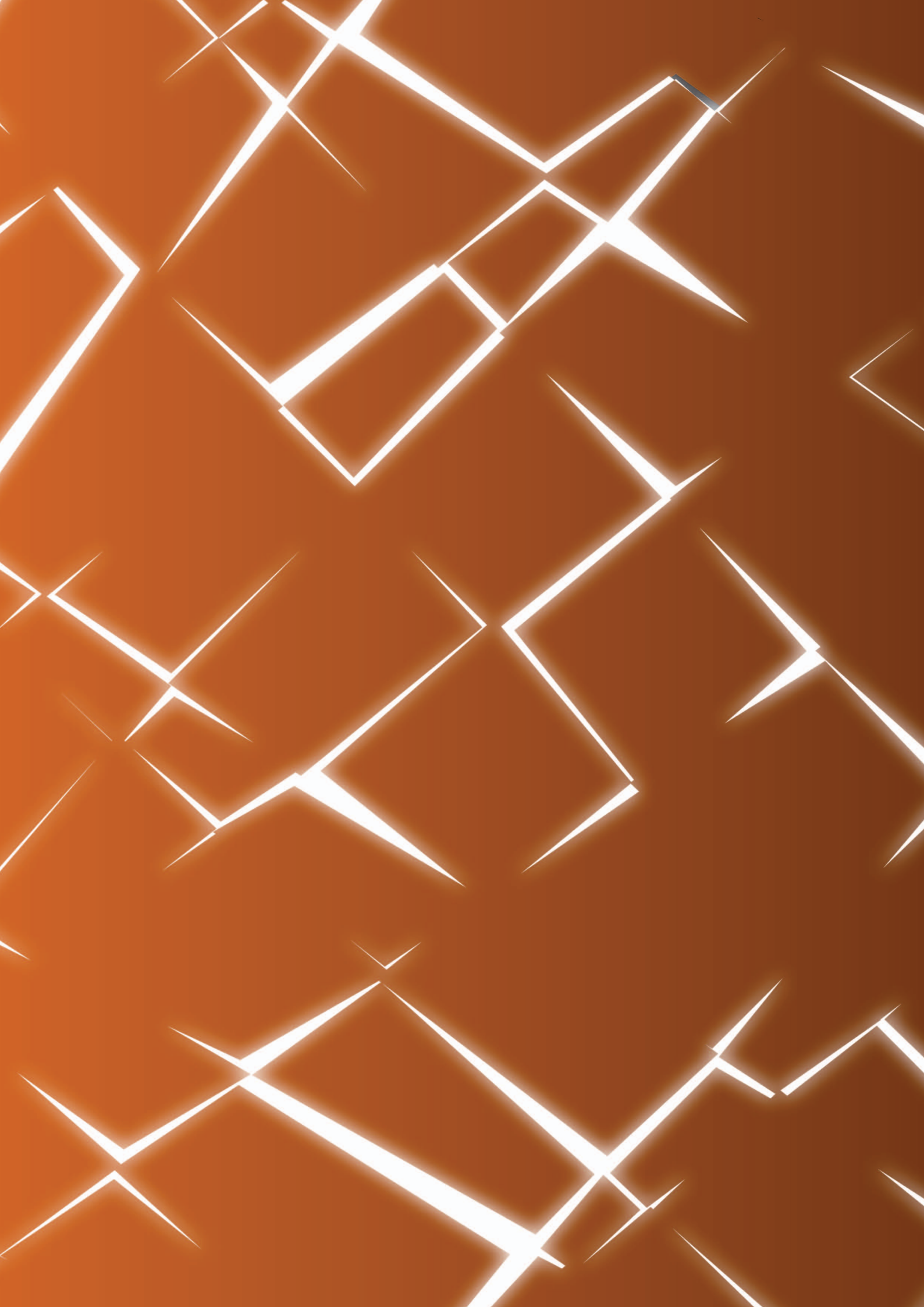
	Radio Receiver	Working time	Automatic UP	Automatic Closing	Courtesy light	24V Power output	Safety beams Auto diagnostic	SPLIT Central operator	XQ Tubular motor	BRD 140/180/250 Rolling door	MIDI Rolling door	MAXXI Rolling door	BHS/BBS Sectional door	RAPIDO Hi-speed door ≤ 90 rpm	RAPIDO Hi-speed door ≥ 130rpm
	■	■	■	■	■ integrated	AC		■	■				■ ver. H		
	■ QCRS1	■	■	■		AC							■ ver. M		
	■ QCMORAD		■	■		AC	■ with FSS						■ ver. E		
			■	■		AC							■ ver. E		
	■ QCMR 500	■	■	■		DC	■						■ ver. M		
		■	■	■		DC	■						■ ver. E		
		■	■	■	■	DC	■						■ ver. M		
		■	■	■	■	DC	■						■ ver. E		

## THREE PHASE CONTROL UNITS

	Radio Receiver	Working time	Automatic UP	Automatic Closing	Courtesy light	24V Power output	Safety beams Auto diagnostic	SPLIT Central operator	XQ Tubular motor	BRD 140/180/250 Rolling door	MIDI Rolling door	MAXXI Rolling door	BHS/BBS Sectional door	RAPIDO Hi-speed door ≤ 90 rpm	RAPIDO Hi-speed door ≥ 130rpm
	■ QCRS1	■	■	■		AC				■ ver. M	■ ver. M	■ ver. M	■ ver. M	■ ver. M	
	■ QCMORAD		■	■		AC	■ with FSS						■ ver. E		
			■	■		AC							■ ver. E		
	■ QCMR 500	■	■	■		DC	■			■ ver. M	■ ver. M		■ ver. M	■ ver. M	
		■	■	■		DC	■			■ ver. E	■ ver. E		■ ver. E	■ ver. E	
		■	■	■	■	DC	■			■ ver. M	■ ver. M	■ ver. M	■ ver. M	■ ver. M	
		■	■	■	■	DC	■			■ ver. E	■ ver. E	■ ver. E	■ ver. E	■ ver. E	

## THREE PHASE CONTROL UNITS WITH FREQUENCY INVERTER

	Radio Receiver	Working time	Automatic UP	Automatic Closing	Courtesy light	24V Power output	Safety beams Auto diagnostic	SPLIT Central operator	XQ Tubular motor	BRD 140/180/250 Rolling door	MIDI Rolling door	MAXXI Rolling door	BHS/BBS Sectional door	RAPIDO Hi-speed door ≤ 90 rpm	RAPIDO Hi-speed door ≥ 130rpm
	■ QCMR 500	■	■	■	■	DC	■							■ ver. E  For correct matching to the motors, refer to the table on page 137.	
		■	■	■	■	DC	■								
		■	■	■	■	DC	■								





# SAFETY BRAKES



## SAFETY DEVICES FOR ROLLING SHUTTERS WITHOUT SPRINGS

DESCRIPTION

The safety brake is a safety device for rolling shutters without springs performing two functions:

- A bearing support for the shutter's shaft
- A mechanical brake blocking the fall of the shutter if a sudden acceleration occurs.

It is made up of antioxiding materials, consists of a central body with a hollow shaft and is supported by a floating metal base preventing any tube eccentricity (except M1A/H, P200).

The GAPOSA safety brakes are equipped with a patented shock-absorber system and a microswitch for disconnecting the electrical supply to the motor when the brake locks.

In order to select the most suitable model for the best application, a good understanding of the safety brake data is essential.

### Nominal torque

It is the key value to select the most appropriate safety brake according to the weight of the shutter and the diameter of the tube. Make sure that the torque of the operator is less than the nominal torque of the safety brake.

### Locking torque

It is the maximum stress which the safety brake is subjected to when it stops the rotation of the shaft.

### Working speed

It refers to the number of revolutions where the safety brake works as a simple support without functioning as a safety device. The speed of the shutter tube has to be within this value.

RANGE

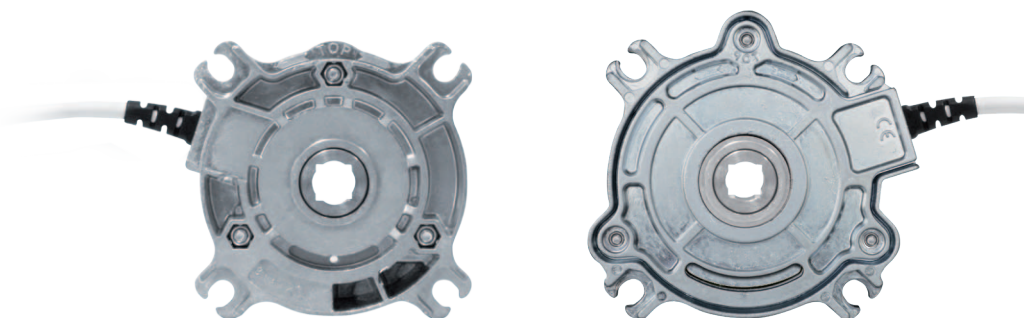
- |                   |        |               |         |               |         |
|-------------------|--------|---------------|---------|---------------|---------|
| ■ <b>M1A/H</b>    | 80 Nm  | ■ <b>M4A</b>  | 404 Nm  | ■ <b>M15A</b> | 1551 Nm |
| ■ <b>P200/H/M</b> | 137 Nm | ■ <b>M7A</b>  | 708 Nm  | ■ <b>M20A</b> | 2200 Nm |
| ■ <b>M3A</b>      | 258 Nm | ■ <b>M10A</b> | 1000 Nm | ■ <b>M30A</b> | 3109 Nm |



# SAFETY BRAKES

## M1A P200

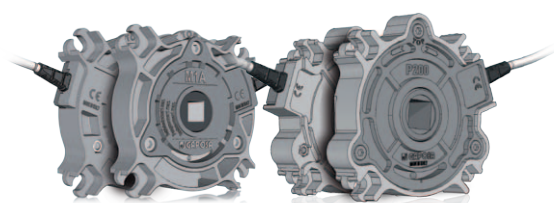
Safety brakes with symmetrical surfaces for installation without conditions



M1A

P200

	M1A	P200
Nominal torque (Nm)	80	137
Locking torque (Nm)	436	575
Working speed (rpm)	22	22
Screw tightening torque (Nm)	4.0	8.0
Approval number	TorFV 10/154	TorFV 18/185
Weight (Kg)	0.85	1



Symmetrical surfaces

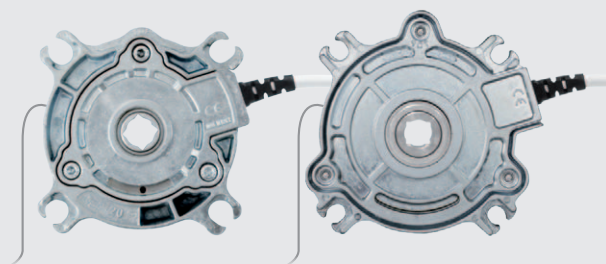


Bidirectional locking system

### Specific versions

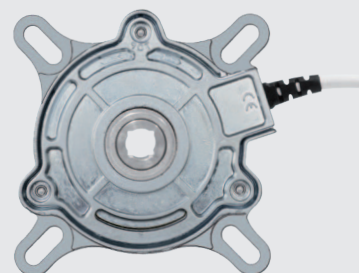
## M1H / P200H

H versions featuring a **free rolling pre-set**. The brake is supplied in free rolling condition, meaning the locking component is disabled until a cord is pulled out thus activating it.



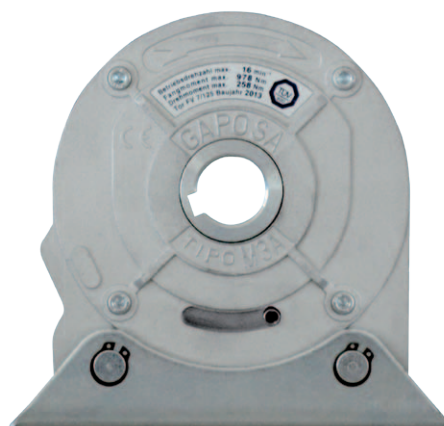
## P200M

Developed for specific end caps, the P200M safety brake has a galvanized protection.



## M3A

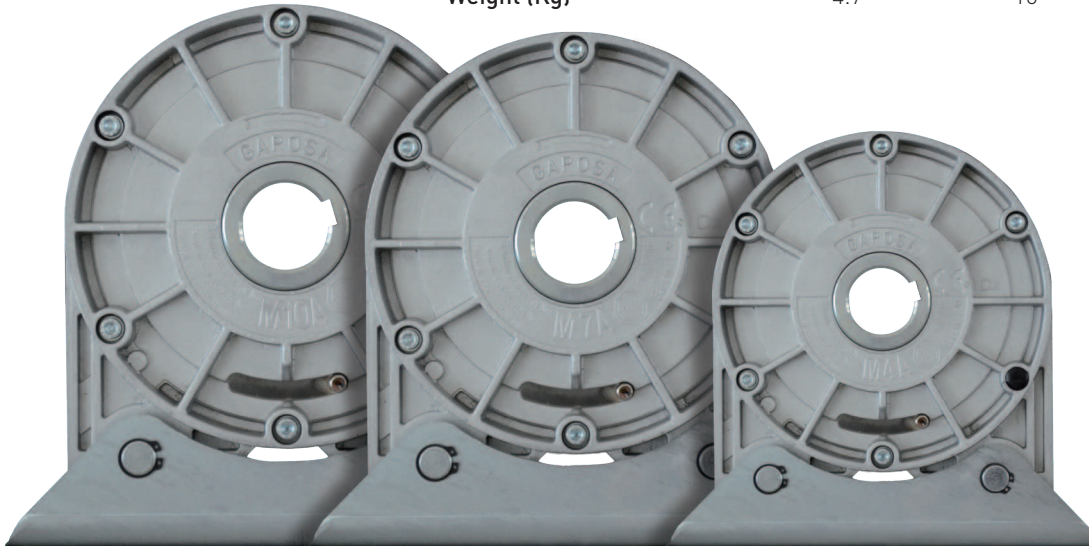
Nominal torque (Nm)	258
Locking torque (Nm)	978
Working speed (rpm)	16
Screw tightening torque (Nm)	5.5
Approval number	TorFV 7/125
Weight (Kg)	2.1





M4A  
M7A  
M10A

	M4A	M7A	M10A
Nominal torque (Nm)	404	708	1000
Locking torque (Nm)	1979	3299	3560
Working speed (rpm)	14	12	12
Screw tightening torque (Nm)	5	6	8
Approval number	TorFV 5/065	TorFV 5/066	TorFV 5/067
Weight (Kg)	4.7	10	12.5



M15A  
M20A  
M30A

	M15A	M20A	M30A
Nominal torque (Nm)	1551	2200	3109
Locking torque (Nm)	8842	16588	-
Working speed (rpm)	18	12	12
Screw tightening torque (Nm)	12	26	30
Approval number	TorFV 7/126	-	-
Weight (Kg)	19.5	20	45

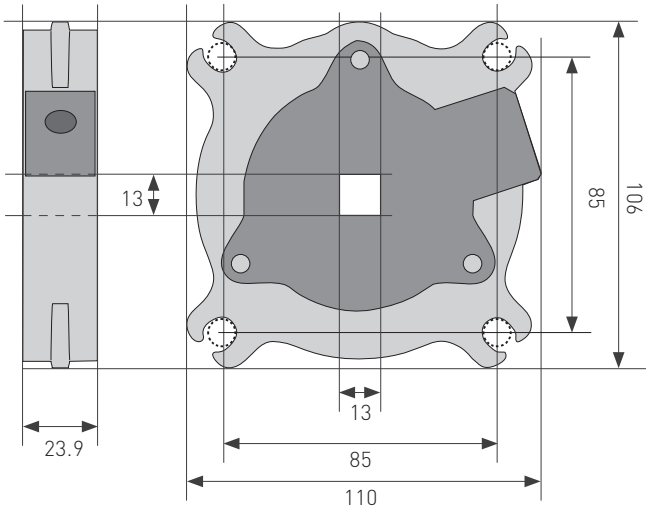




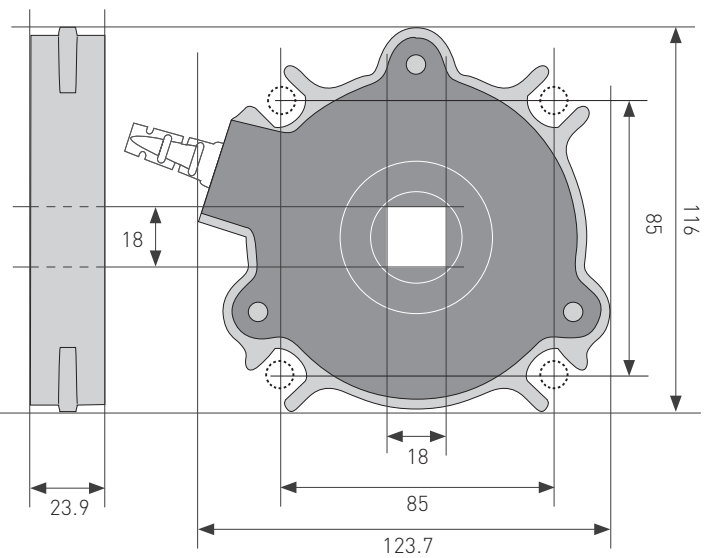
# SAFETY BRAKE

Dimensions (mm)

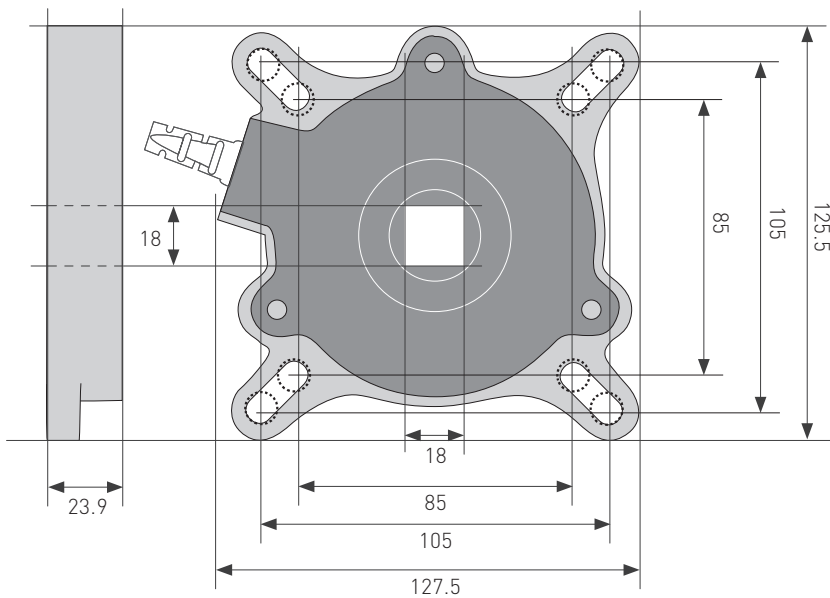
## M1A / M1H



## P200 / P200H

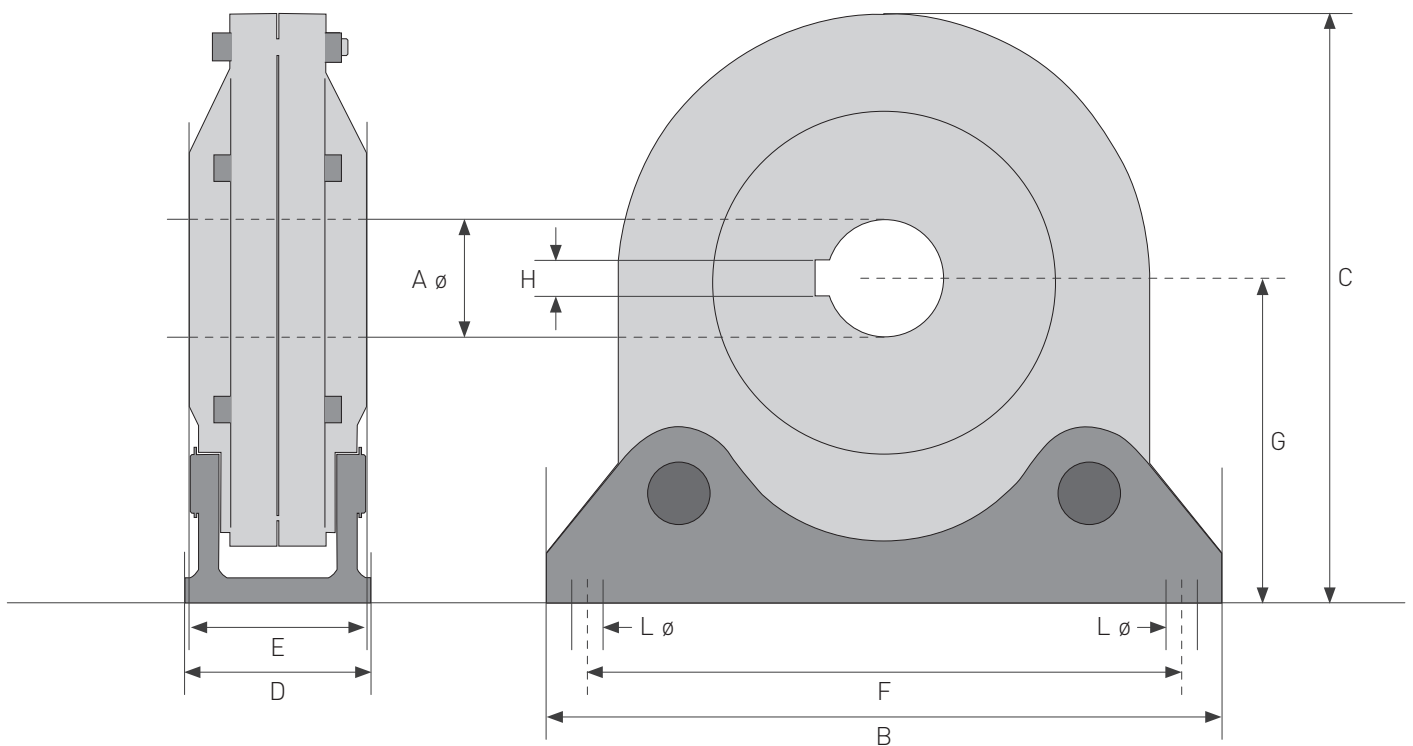


## P200M





**M3A**      **M15A**  
**M4A**      **M20A**  
**M7A**      **M30A**  
**M10A**



Segment (mm)	<b>M3A</b>	<b>M4A</b>	<b>M7A</b>	<b>M10A</b>	<b>M15A</b>	<b>M20A</b>	<b>M30A</b>
A $\varnothing$	25	30	40	40	50	65	70
B	165	216	268	280	320	345	415
C	158	202	255	260	265	290	348
D	33	56	56	71	80	80	110
E	30	50	55	57	58	63	105
F	145	186	240	240	290	315	365
G	91	122	151	156	140	153	191
H	8	8	12	12	14	18	20
L $\varnothing$	9	12	16	16	17	17	22
Fastening screws	2 x M8	2 x M10	2 x M14	2 x M14	2 x M16	2 x M16	2 x M20

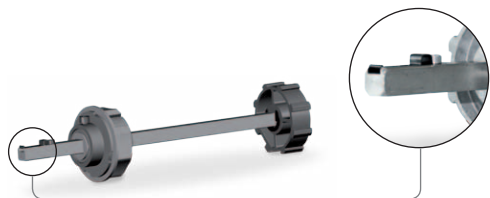


# SAFETY BRAKE

## Adjustable caps

### Adjustable caps (CLIP)

#### M1A



#### SQUARE SHAFT 13 mm - LENGTH 250 mm

AXCL135725 for 70 mm octagonal tube

AXCL137825 for 78 mm round tube

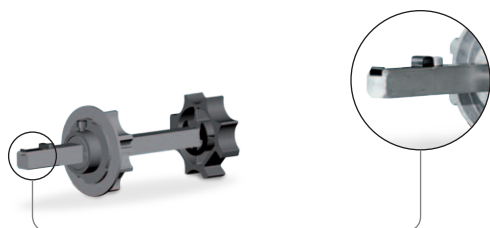
AXCL138925 for 89 mm Deprat tube

#### SQUARE SHAFT 13 mm - LENGTH 600 mm

AXCL138960 for 89 mm Deprat tube

### Adjustable caps (CLIP)

#### P200



#### SQUARE SHAFT 18 mm - LENGTH 250 mm

AXCL185725 for 70 mm octagonal tube

AXCL187825 for 78 mm round tube

AXCL187025 for 70 mm round tube

AXCL188925 for 89 mm Deprat tube

AXCL1810125 for 101.6x3.6 mm round tube

AXCL18101225 for 101.6x2.0 mm round tube

#### SQUARE SHAFT 18 mm - LENGTH 600 mm

AXCL188960 for 89 mm Deprat tube



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## Adjustable caps (STANDARD) M1A



### SQUARE SHAFT 13 mm - LENGTH 250 mm

**AXC135725** for 70 mm octagonal tube

**AXC13ZF8025** for 80 mm ZF round tube

**AXC13589** for 89 mm Deprat tube

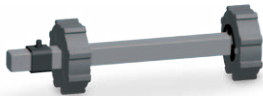
**AXCR131012** for 101,6x3,6 mm round tube

**AXCR1370** for 70 mm round tube

**AXC130625** for 60 mm octagonal tube

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## Adjustable caps (STANDARD) P200



### SQUARE SHAFT 18 mm - LENGTH 250 mm

**AXC5725** for 70 mm octagonal tube

**AXCZF6425** for ZF 64 mm tube - **Max motor torque allowed: 40Nm**

**AXCZF8025** for 80 mm ZF round tube

**AXCR7025** for 70 mm round tube

**AXCD58925** for 89 mm Deprat tube

**AXCR10125** for 101.6x3.6 mm round tube

**AXCR101225** for 101.6x2.0 mm round tube

### SQUARE SHAFT 18 mm - LENGTH 600 mm

**AXCD58960** for 89 mm Deprat tube



# SAFETY BRAKES Selection table

The following table helps you to select the right safety brake according to the weight and sizes of the shutter and the tube diameter.

## P200

ø TUBE x THICKNESS (mm) ▶		70x2.6			83x1.5			88.9x3.2			98x2		
SHUTTER HEIGHT (m) ▶		3	5	7	3	5	7	3	5	7	3	5	7
SHUTTER WIDTH (m) ▶	3	150	86	57	129	75	50	207	174	117	198	139	95
	5	150	86	57	129	75	50	188	174	117	182	139	95
	7	150	86	57	129	75	50	174	174	117	170	139	95
	9	150	86	57	129	75	50	164	165	117	161	139	95
	11	150	86	57	129	75	50	156	157	117	154	139	95

SHUTTER MAXIMUM WEIGHT (Kg)

ø TUBE x THICKNESS (mm) ▶		101.6x3.6			108x3.6			125x1.5			133.3x4		
SHUTTER HEIGHT (m) ▶		3	5	7	3	5	7	3	5	7	3	5	7
SHUTTER WIDTH (m) ▶	3	196	197	175	190	191	193	173	174	121	168	171	174
	5	181	182	175	177	178	180	166	166	121	163	166	168
	7	169	170	171	167	168	169	158	159	121	158	159	121
	9	160	161	162	158	160	161	151	152	121	150	153	155
	11	153	154	155	152	153	154	146	146	121	145	148	150

SHUTTER MAXIMUM WEIGHT (Kg)

## M3A

ø TUBE x THICKNESS (mm) ▶		88.9x3.2			101.6x3.6			108x3.6			133.3x4			159x4.5			168x4.5		
SHUTTER HEIGHT (m) ▶		3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7
SHUTTER WIDTH (m) ▶	3	285	285	285	360	312	279	351	306	275	314	284	259	279	260	242	267	252	235
	5	168	165	165	245	245	245	279	279	275	314	283	259	278	260	241	266	251	235
	7	112	112	112	167	167	167	191	191	191	314	283	258	278	259	259	265	250	234

SHUTTER MAXIMUM WEIGHT (Kg)

## M4A

ø TUBE x THICKNESS (mm) ▶		133.3x4			159x4.5			168x4.5			177.8x5			193.7x5.4			219.1x5.9		
SHUTTER HEIGHT (m) ▶		3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7
SHUTTER WIDTH (m) ▶	3	493	425	375	434	387	348	412	373	338	392	359	327	360	336	309	312	300	280
	5	345	345	345	430	384	345	408	369	333	387	354	322	353	329	303	303	290	272
	7				389	380	342	386	364	330	382	349	318	347	323	297	293	281	263

SHUTTER MAXIMUM WEIGHT (Kg)

## M7A

ø TUBE x THICKNESS (mm) ▶		177.8x5			193.7x5.4			219.1x5.9			244.5x6.3			267x7.1		
SHUTTER HEIGHT (m) ▶		3	5	7	3	5	7	3	5	7	3	5	7	3	5	7
SHUTTER WIDTH (m) ▶	3	553	510	467	509	480	444	446	433	408	394	389	373	353	351	341
	5	548	506	464	505	475	470	439	426	402	384	380	364	340	339	329
	7	545	503	460	499	470	435	432	419	396	375	371	355	328	327	318

SHUTTER MAXIMUM WEIGHT (Kg)





## M10A

ø TUBE x THICKNESS (mm) ▶	193.7x5.4			219.1x5.9			244.5x6.3			267x7.1			298.5x7.1			323.9x8			
SHUTTER HEIGHT (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	
SHUTTER WIDTH (m) ▶	3	823	759	692	721	686	637	632	616	581	564	557	533	486	484	472		427	421
	5	816	753	687	711	676	629	619	603	570	547	540	517	465	463	451		399	393
	7	809	746	681	701	667	619	606	590	557	529	522	500	443	441	430		370	365

SHUTTER MAXIMUM WEIGHT (Kg)

## M15A

ø TUBE x THICKNESS (mm) ▶	219.1x5.9			244.5x6.3			267x7.1			298.5x7.1			323.9x8			368x8			419x8.8		
SHUTTER HEIGHT (m) ▶	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	7	3	5	
SHUTTER WIDTH (m) ▶	3	1160	1142	1095	1139	1033	1007	948	944	933	843	840	837	767	767	765	665	664	663	567	566
	5	1156	1138	1091	1033	1028	1002	941	937	926	834	831	828	757	756	754	650	649	648	546	545
	7	868	868	868	1028	1023	997	934	931	919		822	820	746	744	742	635		633	523	524

SHUTTER MAXIMUM WEIGHT (Kg)

## M20A

ø TUBE x THICKNESS (mm) ▶	244.5x6.3	267x7.1	298.5x7.1	323.9x8	355.6x8	368x8	406.4x8.8	419x8.8	457.2x10	508x11
SHUTTER MAXIMUM WEIGHT (Kg) ▶	1615	1480	1320	1220	1110	1073	970	940	860	775

## M30A

ø TUBE x THICKNESS (mm) ▶	244.5x6.3	267x7.1	298.5x7.1	323.9x8	355.6x8	368x8	406.4x8.8	419x8.8	457.2x10	508x11
SHUTTER MAXIMUM WEIGHT (Kg) ▶	2300	2100	1880	1730	1575	1520	1382	1339	1227	1100



1. **PRICES** - Prices are subject to variation without notice. Should our costs increase, the agreed prices may be varied at any time even throughout the supplying stage. Prices are for goods delivered ex-works.
2. **DELIVERY DATES** - Despatch dates are guideline and not binding. No compensation of any kind will be paid for any direct or indirect damage due to delayed deliveries, or total or partial interruption of the supply of goods.
3. **SHIPMENT & TRANSPORT** - The goods are always shipped at the purchaser's risk, even if they are sold CIF. If no specific agreement is reached, they will be shipped by the means considered the most appropriate and no responsibility will be accepted for any delays. The purchaser must verify quantities and perfect state of the goods at their arrival.  
Any complaint for missing or damaged goods must be notified right upon delivery to the transport agency. No returns or complaints will be accepted after eight days from receipt of the goods by the purchaser.
4. **PAYMENT** - Goods will be paid (even in partial deliveries) as specified in the invoice at our address. The purchaser cannot postpone payment beyond the expiry date for any reason. Any charges for possible outstanding payments are at the buyer's expense as well as the interest on arrears that we calculate in case of delayed payments.
5. **WARRANTY** - Duration: On residential motorisations, GAPOSA grants a total warranty of 5 years upon the invoicing date. On industrial and commercial motorisations and on all controls and devices, GAPOSA grants a total warranty of 2 years upon the invoicing date.  
By warranty we mean the replacement or repair, free of charge, of defective equipment which we also consider as such, as faulty design, material or workmanship. Equipments that are repaired or replaced during the warranty period are subject to the same conditions. All costs met for shipping the items under warranty are of the purchaser's charge.
6. **EXCEPTIONS TO THE WARRANTY** - The warranty does not cover:
  - those products damaged because of a wrong installation or as a consequence of an improper use;
  - those products damaged by an electrical connection not in compliance with the diagrams provided with the products or with the rules in force or products damaged as a consequence of a breakdown or defect of the electric mains;
  - the damages that occur when products are used in a way different from the one indicated by the manufacturer;
  - the consequences of natural catastrophes, reasons of "force majeure" or fortuitous events;
  - those defects due to the use of electric and control accessories of other manufactures (such as, control boards, electric accessories and any other article that may be not compatible with GAPOSA equipments);
  - the expenses for repairing and replacing the damaged products after being installed on systems that work badly because of an improper installation;
  - the expenses met for the disassembly and reinstallation of the products;
  - the transport charges for the items to be repaired.
7. **VARIANTS** - Any waivers of these terms of sale indicated above which are agreed between the parties will be strictly limited to the agreements reached and will never imply variations of the remaining conditions, which will continue to be unchanged and confirmed, where no specific reference is made.
8. **LEGAL JURISDICTION** - The only law court with jurisdiction over any dispute shall be the law court of Fermo.
9. **PATENT PROTECTION** - Some technical solutions of the drives and safety brake are covered by international patents.





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