

# Commercial & industrial closures

MOTORS  
CONTROLS  
ACCESSORIES

 simu



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## 05. REFERENCES

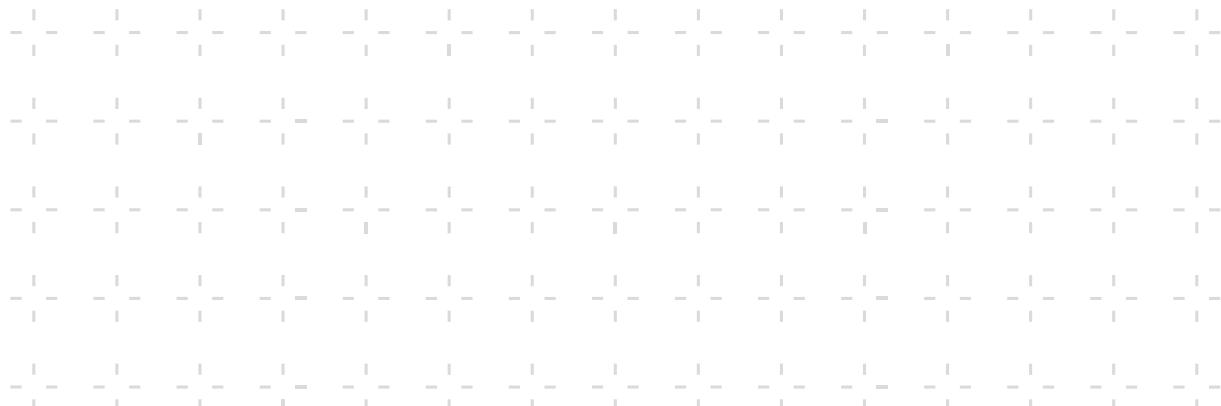
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# WHO ARE WE?

**MANUFACTURERS OF MOTORS  
AND AUTOMATIC SYSTEMS  
FOR ROLLER SHUTTERS, BLINDS,  
SCREENS, INDUSTRIAL AND  
COMMERCIAL DOORS SINCE 1952.**

For over 70 years, SIMU has been drawing on its industrial know-how and core values to help its customers. As committed partners, we develop close relationships with our customers on a daily basis to provide them the most adapted advice and solutions.

## **INVENTOR OF THE TUBULAR MOTOR FOR ROLLER SHUTTERS IN 1959**

In 1959 the first tubular motor was designed and crafted inside the walls of SIMU's workshop: a key technical milestone unlocking new possibilities in the field of outdoor applications.

Since then, SIMU has provided continuous improvement to its industrial customers - by manufacturing simple, efficient and good quality products that perfectly meet their expectations.



## **OUR COMMITMENTS**

At SIMU, our goal is to provide you with robust, top-quality products that are easy to implement, connected and compliant with the highest industry standards.

We demonstrate our ingenuity in every one of our actions to bring you simple and highly efficient solutions.

As manufacturers ourselves, we know what makes a great business partner: we give impetus to our customers' projects through our mastery of our best standard products and services, and our down-to-earth, dedicated attitude.

At SIMU, we are here for you.

# OUR VALUES



## Pragmatism

Powered by our expertise, we work together in action, hand-in-hand with our partners. Unafraid to get our hands in the dirt, we help them deploy their projects and business, with our long-standing sturdiness and mastery.



## Integrity

What you see is what you get. No frills no fuss. We do what we say we are going to do, showing up for our partners by acting with goodwill, commitment and humility to guarantee their satisfaction.



## Reciprocity

From our DNA to our day-to-day actions, we wholeheartedly believe in the power of partnering. With a give and take mindset, we generate connections that lead to mutual value. Because for us, working together is success.



## OUR AREAS OF EXPERTISE

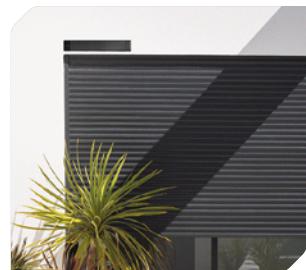
We offer an extensive range of motors to equip all shutters on the market, from the smallest to the largest, both for new buildings and for renovation projects.

We offer solutions for vertical blinds and awnings: combined with SIMU motors, with high rotation speeds, we offer smart, effective and elegant solar protection solutions, available for both the tertiary and residential markets.

We offer motors and automatic systems for roller doors, grilles and metal shutters for stores and industrial doors. As an expert in this specific market, we provide support to manufacturers with our offer of central, exterior and tubular motors which are global benchmarks, and from now on, with our solution for fire and smoke protection.



ROLLER SHUTTER



SOLAR SOLUTION



AWNING



SCREEN



INDUSTRIAL DOOR



COMMERCIAL CLOSURE

### CUSTOMER SERVICE CONTACT

T. +33 3 84 64 75 00

@ [service@simu.com](mailto:service@simu.com)



# WE ACT FOR GREEN

The ACT FOR GREEN® program is a voluntary approach to reducing the environmental impact of our products.

Eco-design is an overarching process that impacts each stage of the lifecycle of the product.

The objective is to reduce a product's environmental impact, from the extraction of raw materials, through its manufacture, transport and use, to its end-of-life. It is a conscious step forward for the end-user and the planet.

By 2030, 100% of our motors will be ACT FOR GREEN®.



## OUR CUSTOMISATION SERVICE



In order to constantly adapt to the specific needs of our industrial customers, customisation is a core part of our offer. With this aim, we support our customers by offering them two solutions:

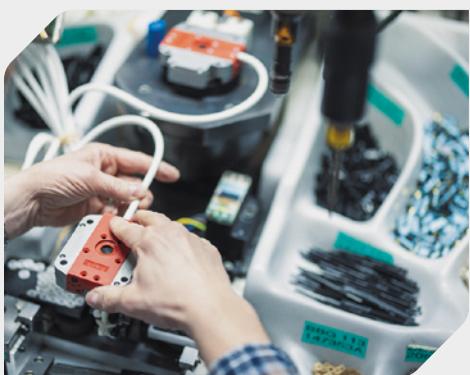
### - "KITTING":

we create a new product reference by combining products and accessories in a new package, for example:

- Different accessories in a single kit,
- Accessories mounted on the motor to save time during assembly.

### - TECHNICAL MODIFICATION:

we carry out functional modification to standard products to tailor them to your need.





# **"The mastery of motorisation solutions by SIMU: when best standards, technical expertise and pragmatic mindset meet for a robust industrial partnership"**

SIMU, a brand of the SOMFY Group,  
is a leader in motorisations since 1952.

Renowned for our expertise in rolling shutter, screen, awning  
and commercial and industrial applications,  
we uphold the philosophy 'No is not an answer'.

We are dedicated to serving the B2B industrial sector,  
combining advanced technology with a client-centric & solution-oriented  
approach and fostering long-term partnerships.

Our products are the embodiment of robustness, simplicity, and efficiency,  
designed as essential solutions that adhere to the best market standards.

Discover more about our technical expertise and  
collaborative, pragmatic spirit at [www.simu.com](http://www.simu.com).

**Together, as one.**



**simu**  
**Together as one**



# NOTES

A photograph of a man with short brown hair and glasses, wearing a dark blue t-shirt. He is focused on working on a large industrial motor. The motor is black with a red top plate that has the word "simu" printed on it. The background is blurred, showing an industrial setting with blue walls.

# 01. Central motors

# 01. **Central motors**

SELECTION CHARTS

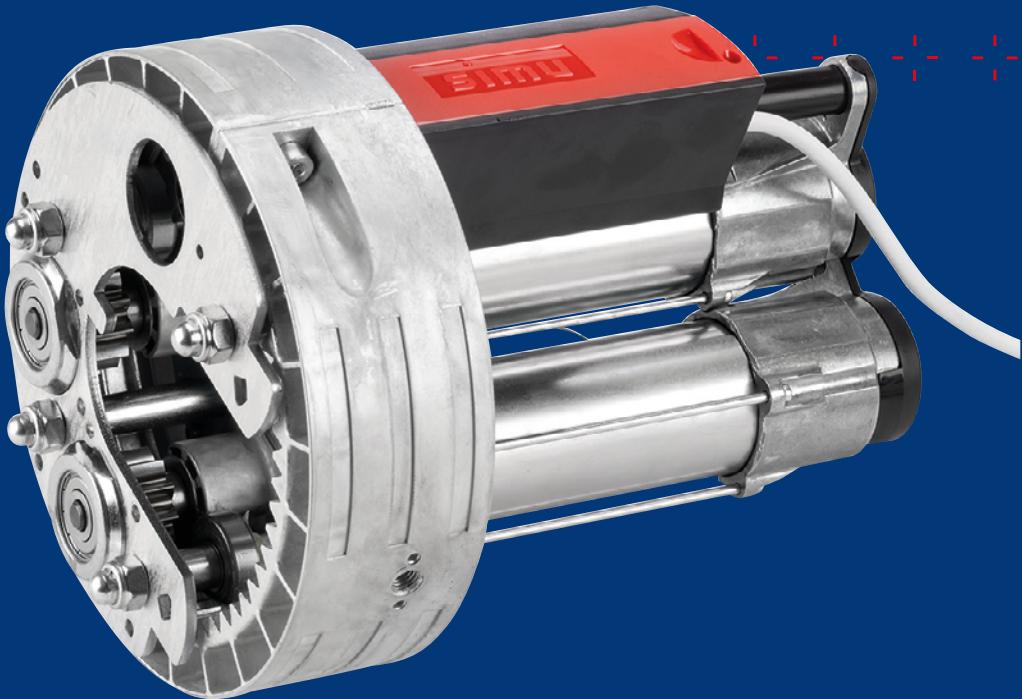
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# Motor selection charts

## A metal curtain/grille which is equipped with a balancing system

... has to be manually operated in an effortless way and during all the stroke.

The choice of the motor depends on:

- o The shutter weight
- o The central tube diameter ( $\varnothing 60\text{mm}$  or  $\varnothing 76\text{mm}$ )
- o The spring box ( $\varnothing 200\text{mm}$ ,  $\varnothing 220\text{mm}$  or  $\varnothing 240\text{mm}$ )

## Selection charts and operational limits mentioned in this catalogue

... are given for information only and vary according to each installation's characteristics (more particularly: type of slats, friction, conditions of installation, variation in power supply voltage, torque variations due to kinematics of each grille and metal curtains and to its springs strength).

The salesman's or manufacturer's responsibility cannot be called into question. Recommendations for the use of tubes requires careful attention as well (see profiler's charts). Each manufacturer of grilles and metal curtains will have to test the products in order to determine his own selection charts.

For any special case, please consult us.

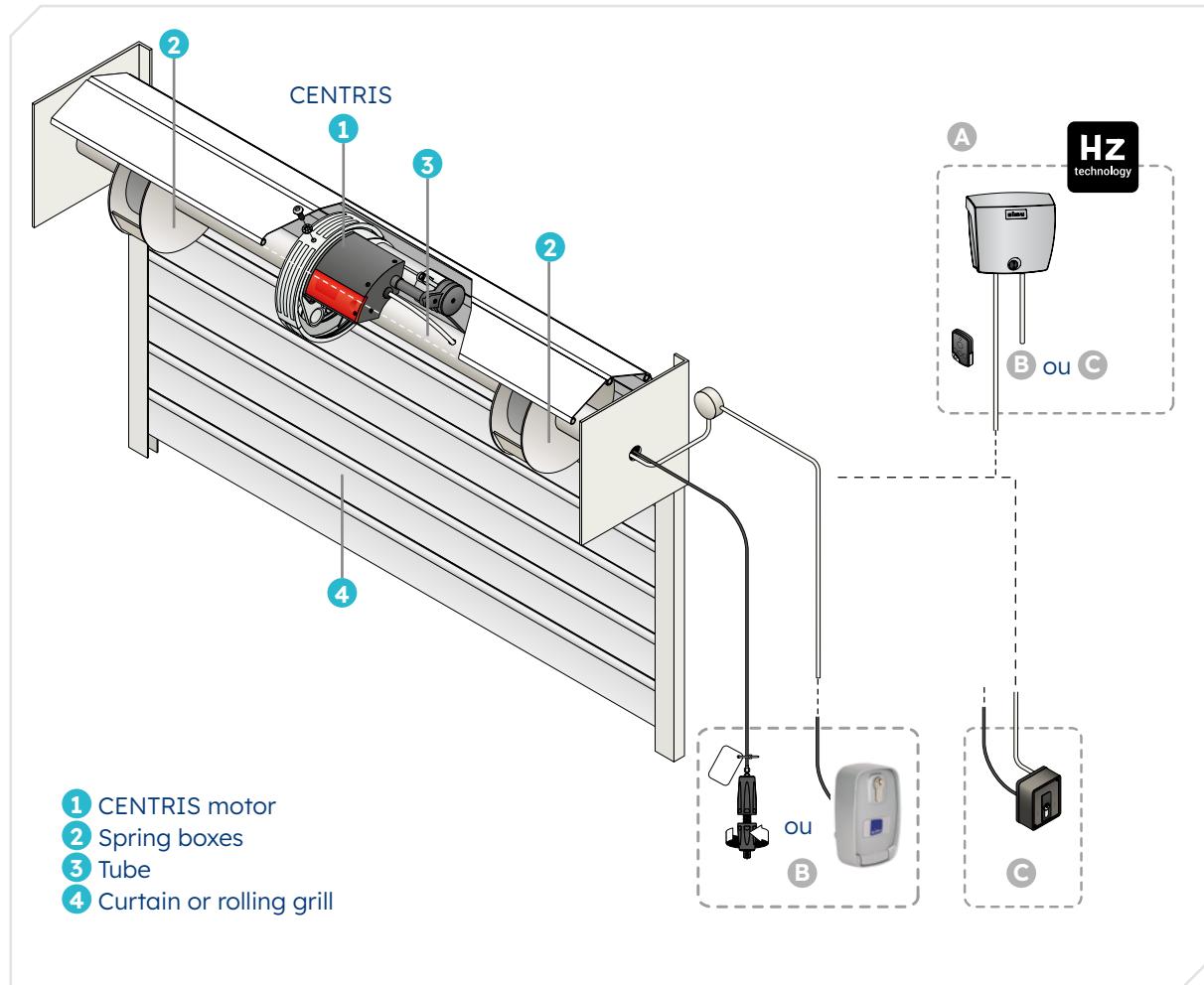
The following chart gives the fabric liftable weight (in kg), according to the motor in use.

Motor	Crown Ø200mm		Crown Ø220mm		Crown Ø240mm	
	Nominal	Maxi *	Nominal	Maxi *	Nominal	Maxi *
CENTRIS S	100 kg	120 kg	90 kg **	110 kg **	-	-
CENTRIS M	160 kg	200 kg	150 kg **	190 kg **	-	-
CENTRIS L	220 kg	250 kg	200 kg **	230 kg **	180 kg	210 kg
CENTRIS XL	-	-	255 kg	270 kg	230 kg	245 kg
CENTRIS XXL	-	-	350 kg	385 kg	330 kg	365 kg

\* Liftable weight for a perfectly balanced curtain, without resistance at any point of the operating stroke length.

\*\* With adaptation (9016731).

# Installation



- A** SD100 Hz radio control board + remote control
- B** Key switch + declutching handle
- C** Key switch with built-in declutching system



## CENTRIS S, M, L, XL, XXL central motor



- **100% conformed to European standards:** CENTRIS has been designed to guarantee the highest level of security and thus, perfectly meet the requirements of the European standards.
- **Robust and reliable, it is designed to last:** in order to provide you a high quality motor, CENTRIS is designed with reliable, strong materials and with patented systems and technologies (enduring fixing system, protection box for the end-limits system,...).
- **A range to meet all needs:** thanks to a wide combination of torques / motor diameters / crown diameters, you will be sure to find in the CENTRIS range the motor you need (see the chart on the back of the page).
- **Easy and very quick adjustment:** the progressive system equipped with memory rings allows an easy and quick adjustment: only one opening and closing are needed to set CENTRIS! This reliable adjustment system gives the opportunity to save time during installation.
- **Total protection:** the end-limits system is integrated into a protection box. In this way, it is protected against collisions.



The declutching system acts directly on the reducer. Thus it makes the motor totally free and allows the curtain to be manually and effortlessly operated in case of power failure.

- Torque guaranteed throughout the entire operating, until the thermal cut-out.
- Built-in brake inside the motorisation, ensuring an immediate stop of the closure.
- The installer is protected, there is no access to the live parts.
- End-limits system is integrated into a protective box.



## References

Also available in multiple packagings. Please contact us.

230V - 50HZ POWER SUPPLY WITH BRAKE AND DECLUTCHING

Description	Torque	Power	Current	Speed	End-limit capacity	Brake and declutching	Diameter of tube	Crown	Weight	Length	References
										A	x 1
CENTRIS S	60 Nm	230 W	1 A	10 rpm	12 rounds	yes	60 mm	200 mm **	6.74 kg	360 mm	2008527
CENTRIS M	75 Nm	300 W	1.3 A	10 rpm	12 rounds	yes	60 mm	200 mm	7.94 kg	342 mm	2007112
CENTRIS M	75 Nm	300 W	1.3 A	10 rpm	12 rounds	yes	60 mm	220 mm *	8.45 kg	342 mm	2007114
CENTRIS L	100 Nm	360 W	1.6 A	10 rpm	12 rounds	yes	60 mm	200 mm	8.21 kg	357 mm	2007117
CENTRIS L	100 Nm	360 W	1.6 A	10 rpm	12 rounds	yes	60 mm	220 mm *	8.72 kg	357 mm	2007120
CENTRIS L	100 Nm	360 W	1.6 A	10 rpm	12 rounds	yes	76 mm	220 mm *	8.53 kg	342 mm	2007124
CENTRIS L	100 Nm	360 W	1.6 A	10 rpm	12 rounds	yes	76 mm	240 mm	9.43 kg	342 mm	2007231
CENTRIS XL	140 Nm	450 W	2 A	10 rpm	12 rounds	yes	60 mm	220 mm	9.05 kg	372 mm	2007125
CENTRIS XL	140 Nm	450 W	2 A	10 rpm	12 rounds	yes	76 mm	220 mm	8.75 kg	357 mm	2007128
CENTRIS XL	140 Nm	450 W	2 A	10 rpm	12 rounds	yes	76 mm	240 mm	10.22 kg	357 mm	2007232
CENTRIS XXL	200 Nm	650 W	2.85 A	10 rpm	12 rounds	yes	60 mm	220 mm	12.62 kg	342 mm	2007129
CENTRIS XXL	200 Nm	650 W	2.85 A	10 rpm	12 rounds	yes	76 mm	220 mm	12.47 kg	342 mm	2007131
CENTRIS XXL	200 Nm	650 W	2.85 A	10 rpm	12 rounds	yes	76 mm	240 mm	13.40 kg	342 mm	2007134

230V - 50HZ POWER SUPPLY WITHOUT BRAKE AND DECLUTCHING

Description	Torque	Power	Current	Speed	End-limit capacity	Brake and declutching	Diameter of tube	Crown	Weight	Length	References
										A	x 1
CENTRIS M	75 Nm	300 W	1.3 A	10 rpm	12 rounds	non	60 mm	200 mm	7.47 kg	342 mm	2007113
CENTRIS M	75 Nm	300 W	1.3 A	10 rpm	12 rounds	non	60 mm	220 mm *	7.98 kg	342 mm	2007115
CENTRIS L	100 Nm	360 W	1.6 A	10 rpm	12 rounds	non	60 mm	200 mm	7.68 kg	357 mm	2007118
CENTRIS L	100 Nm	360 W	1.6 A	10 rpm	12 rounds	non	60 mm	220 mm *	6.8 kg	357 mm	2007121
CENTRIS XL	140 Nm	450 W	2 A	10 rpm	12 rounds	non	60 mm	220 mm	8.44 kg	372 mm	2007126

Attention, this version of CENTRIS motors is not intended for the European market.

220V - 60HZ POWER SUPPLY

Description	Torque	Power	Current	Speed	End-limit capacity	Brake and declutching	Diameter of tube	Crown	Weight	Length	References
										A	x 1
CENTRIS 90	90 Nm	380 W	1.80 A	12 rpm	12 rounds	yes	60 mm	220 mm *	8.70 kg	357 mm	2007138
CENTRIS 170	170 Nm	780 W	3.7 A	12 rpm	12 rounds	yes	60 mm	220 mm	12.23 kg	342 mm	2007140
CENTRIS 170	170 Nm	780 W	3.7 A	12 rpm	12 rounds	yes	76 mm	240 mm	13.84 kg	342 mm	2007141

220V - 60HZ POWER SUPPLY

Description	Torque	Power	Current	Speed	End-limit capacity	Brake and declutching	Diameter of tube	Crown	Weight	Length	References
										A	x 1
CENTRIS 100	100 Nm	390 W	3.3 A	12 rpm	12 rounds	yes	60 mm	200 mm	8.41 kg	357 mm	2007119
CENTRIS 100	100 Nm	390 W	3.3 A	12 rpm	12 rounds	yes	60 mm	220 mm *	8.92 kg	357 mm	2007123
CENTRIS 200	200 Nm	790 W	6.6 A	12 rpm	12 rounds	yes	60 mm	220 mm	12.33 kg	342 mm	2007130
CENTRIS 200	200 Nm	790 W	6.6 A	12 rpm	12 rounds	yes	76 mm	220 mm	12.96 kg	342 mm	2007133

\* crown 200 mm with adaptation

\*\* to pass in 220 mm: you must add the adaptation ref. 9016731



## Dimensions

<p><b>CLAMP FIXING FOR MOTOR</b> Version for tube Ø60mm</p>	<p><b>CLAMPING JAWS FOR MOTOR</b> Version for tube motor Ø76mm and for motors XXL Ø60mm</p>
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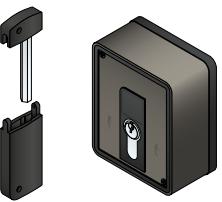
## Technical characteristics

SETTING	Semi-automatic setting system, with memory rings.
THERMAL CUT-OUT	4 minutes
NUMBER OF CYCLES PER DAY	10 non consecutive
PROTECTION INDEX	IPX4
STANDARD CABLE	White, H05 VV-F, 4 meters length (unsheathed, stripped and with lug)
DECLUTCHING CABLE	6 meters length
DECLUTCHING	The motors are delivered with the declutching kit (ref. <b>9017544</b> )

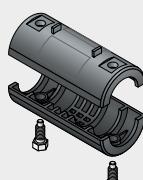
## Recommended types of control

Type of control	Radio control	Wired control within sight, with maintained push, without safety accessory
Operating mode	Automatic or sequential	Maintained push
Control boxes	 SD100Hz control board	Not required
Control points	 Key switch and push buttons	 Remote controls, radio transmitters and keypad
Safety accessories	 Safety edge, photocell barrier & signalling light	Not required

## Control point with declutching system for wired CENTRIS

Product	Description	Reference
	<p>Key switch with declutching Dimensions 47 x 78 x 95 mm IP 54 Unstable, 2 positions</p>	2008367
	<p>Declutching security box + switch Dimensions 44 x 86 x 140 mm IP X4 Unstable, 2 positions Mounting: vertical or horizontal</p>	2008778

## Accessories for CENTRIS motors

Product	Description	Reference
	<p>Declutching kit with classic handle with screwing / unscrewing, sheathed cable of 6 metres and mounting accessories.  Kit without cable: Ref. 9017271 Cable + declutching sheath only (length 6m): Ref. 5011024</p>	9017544
	Adpator set for Ø60 mm CENTRIS motor (only clamp fixing for motor)	
	on Ø34 mm tube	9015363
	on Ø42 mm tube	9015364
	on Ø48 mm tube	9015366
	10 adaptor kits for crown, from Ø200 mm to Ø220 mm or from Ø220 mm to Ø240 mm. Screws and washers included.	9016731

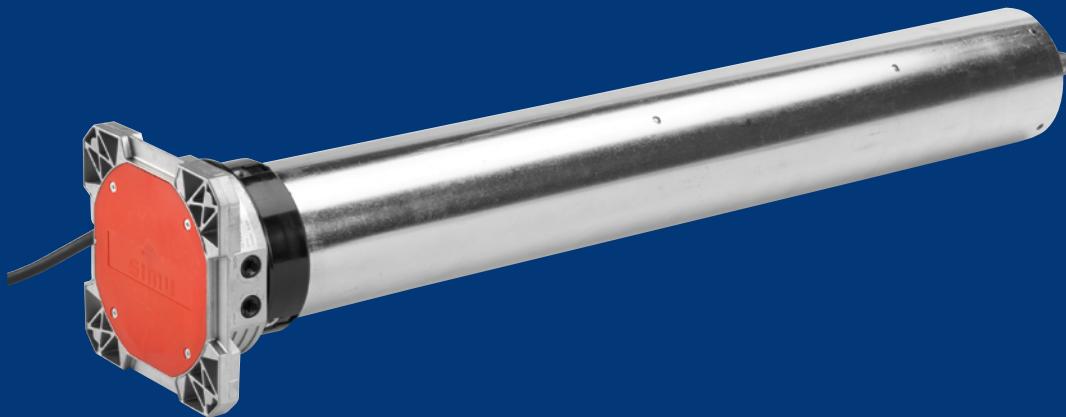


A photograph of a modern interior space. The ceiling features a grid of recessed lights and a series of horizontal blinds. Below the ceiling, there's a white cabinet and a display counter with various items. A large window is visible in the background.

## 02. Tubular motors

## 02. **Tubular motors**

Selection charts	p 21	+	+	+	+	+
T5/DMI5 & T6/DMI6 motors	p 28	+	+	+	+	+
T8S/T8S DMI motors	p 36	+	+	+	+	+
T8F motors	p 40	+	+	+	+	+
T8/T8M & T9/T9M motors	p 44	+	+	+	+	+
Wall mounting accessories for T8/T8M & T9/T9M	p 52	+	+	+	+	+
Manual override accessories	p 52	+	+	+	+	+
Accessories for motor setting	p 55	+	+	+	+	+



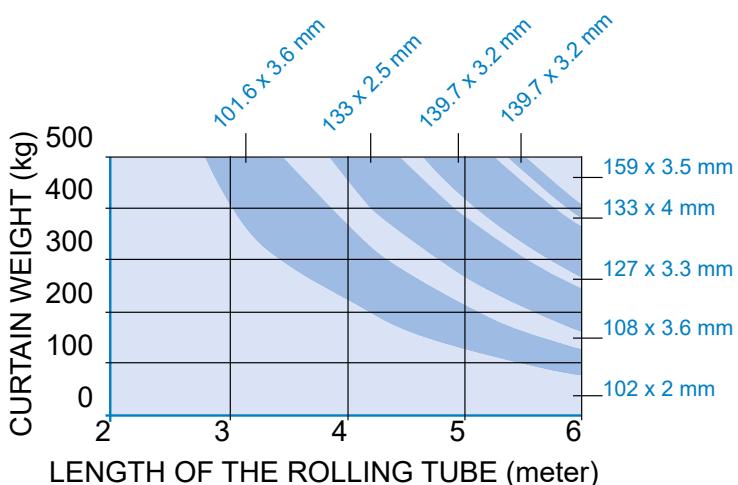


# SELECTION CHARTS FOR ROLLING TUBE

The diagrams below determine the type of rolling tube to be used depending on the characteristics of your closure: weight of the curtain and tube length.

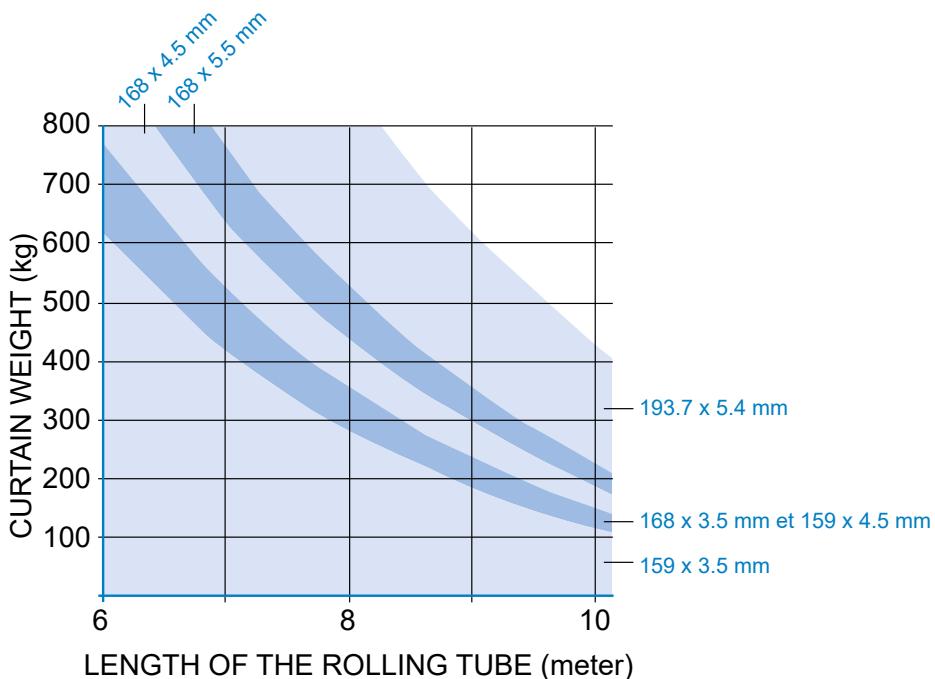
## ADMISSIBLE WEIGHT PER TYPE OF TUBE

Tube from 0 to 6 meters in length



## ADMISSIBLE WEIGHT PER TYPE OF TUBE

Tube from 6 to 10 meters in length





# Motor selection charts

## Selection charts AND OPERATIONAL limits mentioned in this catalogue

... are given for information only and vary according to each installation's characteristics (more particularly: type of slats, friction, conditions of installation, variation in power supply voltage, torque variations due to kinematics of each grille and metal curtains and to its spring strength).

The salesman's or manufacturer's responsibility cannot be called into question. Recommendations for the use of tubes require careful attention as well (see profiler's charts). Each manufacturer of grilles and metal curtains will have to test the products in order to determine his own selection charts.

For any special case, please consult us.

## The + SIMU

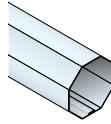
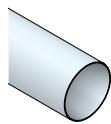
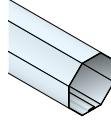
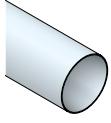
On request, we can also make for you personalised selection charts that meet the specific characteristics of your closures.

You can send your requests to [service@simu.com](mailto:service@simu.com)



## Single-phase motors - T5 / DMI 5 - T6 / DMI 6

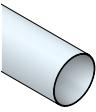
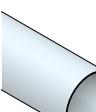
The following chart shows a liftable curtain weight (kg) depending on the type of rolling tube, the height of the door and the motor torque:

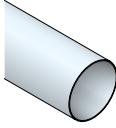
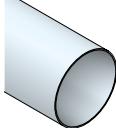
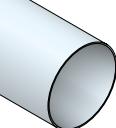
Ø of tube	Curtain height	T5 / DMI 5		T6 / DMI 6	
		40 Nm	50 Nm	80 Nm	120 Nm
 Octa 70	≤ 2.5 m	60 kg	75 kg	-	-
	3 m	54 kg	68 kg	-	-
	3.5 m	52 kg	61 kg	-	-
	4 m	42 kg	55 kg	100 kg	-
 Deprat 89	≤ 2.5 m	57 kg	71 kg	115 kg	-
	3 m	53 kg	66 kg	106 kg	-
	3.5 m	51 kg	64 kg	100 kg	-
	4 m	41 kg	58 kg	93 kg	-
 ZF 80	≤ 2.5 m	63 kg	79 kg	126 kg	-
	3 m	59 kg	74 kg	118 kg	-
	3.5 m	57 kg	71 kg	114 kg	-
	4 m	52 kg	65 kg	104 kg	-
 Ø 101.6 x 3.6 Ø 102 x 2	2 m	55 kg	69 kg	110 kg	165 kg
	2.5 m	49 kg	62 kg	100 kg	150 kg
	3 m	46 kg	58 kg	93 kg	139 kg
	3.5 m	45 kg	56 kg	90 kg	135 kg
	4 m	41 kg	51 kg	82 kg	122 kg
 Ø 108 x 3.6	2 m	-	-	104 kg	156 kg
	2.5 m	-	-	95 kg	140 kg
	3 m	-	-	87 kg	131 kg
	3.5 m	-	-	85 kg	125 kg
	4 m	-	-	77 kg	116 kg
 Octa 114	≤ 2.5 m	-	-	90 kg	135 kg
	3 m	-	-	83 kg	124 kg
	3.5 m	-	-	80 kg	120 kg
	4 m	-	-	73 kg	109 kg
 Ø 133 x 2.5 Ø 133 x 4	2 m	-	-	84 kg	126 kg
	2.5 m	-	-	75 kg	115 kg
	3 m	-	-	71 kg	106 kg
	3.5 m	-	-	70 kg	105 kg
	4 m	-	-	63 kg	94 kg



## Single-phase motors - T8 / T8M - T8S / T8S DMI

The following chart shows a liftable curtain weight (kg) depending on the type of rolling tube, the height of the door and the motor torque:

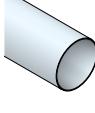
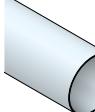
Ø of tube	Curtain height	T8 / T8M - T8S / T8S DMI					
		150 Nm	200 Nm	250 Nm	300 Nm	350 Nm	450 Nm
 Ø 101.6 x 3.6 Ø 102 x 2	2 m	235 kg	314 kg	392 kg	441 kg	-	-
	2.5 m	229 kg	306 kg	382 kg	440 kg	-	-
	3 m	221 kg	294 kg	368 kg	440 kg	-	-
	3.5 m	215 kg	286 kg	358 kg	429 kg	-	-
	4 m	209 kg	278 kg	348 kg	418 kg	-	-
	4.5 m	203 kg	271 kg	338 kg	406 kg	-	-
	5 m	194 kg	259 kg	324 kg	388 kg	-	-
	5.5 m	185 kg	247 kg	309 kg	371 kg	-	-
	6 m	176 kg	235 kg	294 kg	353 kg	-	-
 Ø 108 x 3.6	2 m	222 kg	296 kg	370 kg	417 kg	519 kg	-
	2.5 m	217 kg	289 kg	361 kg	415 kg	506 kg	-
	3 m	208 kg	278 kg	347 kg	415 kg	486 kg	-
	3.5 m	203 kg	270 kg	338 kg	406 kg	473 kg	-
	4 m	197 kg	263 kg	329 kg	394 kg	460 kg	-
	4.5 m	192 kg	256 kg	319 kg	383 kg	447 kg	-
	5 m	183 kg	244 kg	306 kg	367 kg	428 kg	-
	5.5 m	175 kg	233 kg	292 kg	350 kg	408 kg	-
	6 m	167 kg	222 kg	278 kg	333 kg	389 kg	-
 Ø 127 x 3.25	2 m	189 kg	252 kg	315 kg	355 kg	441 kg	567 kg
	2.5 m	184 kg	246 kg	307 kg	355 kg	430 kg	553 kg
	3 m	177 kg	236 kg	295 kg	354 kg	413 kg	531 kg
	3.5 m	172 kg	230 kg	287 kg	345 kg	402 kg	517 kg
	4 m	168 kg	224 kg	280 kg	335 kg	391 kg	503 kg
	4.5 m	163 kg	217 kg	272 kg	326 kg	380 kg	489 kg
	5 m	156 kg	208 kg	260 kg	312 kg	364 kg	468 kg
	5.5 m	149 kg	198 kg	248 kg	298 kg	347 kg	446 kg
	6 m	142 kg	189 kg	236 kg	283 kg	331 kg	425 kg
 Ø 133 x 2.5 Ø 133 x 4	2 m	180 kg	241 kg	301 kg	340 kg	421 kg	541 kg
	2.5 m	176 kg	235 kg	293 kg	340 kg	411 kg	528 kg
	3 m	169 kg	226 kg	282 kg	338 kg	395 kg	508 kg
	3.5 m	165 kg	220 kg	274 kg	329 kg	384 kg	494 kg
	4 m	160 kg	214 kg	267 kg	320 kg	374 kg	480 kg
	4.5 m	156 kg	208 kg	259 kg	311 kg	363 kg	467 kg
	5 m	149 kg	198 kg	248 kg	298 kg	347 kg	447 kg
	5.5 m	142 kg	194 kg	237 kg	284 kg	332 kg	426 kg
	6 m	135 kg	180 kg	226 kg	271 kg	316 kg	406 kg

Ø of tube	Curtain height	T8 / T8M - T8s / T8s DMI					
		150 Nm	200 Nm	250 Nm	300 Nm	350 Nm	450 Nm
 Ø 139.7 x 3.6 Ø 139.7 x 3.2	2 m	172 kg	229 kg	286 kg	322 kg	401 kg	515 kg
	2.5 m	168 kg	223 kg	279 kg	320 kg	391 kg	503 kg
	3 m	161 kg	215 kg	268 kg	320 kg	376 kg	483 kg
	3.5 m	157 kg	209 kg	261 kg	314 kg	366 kg	470 kg
	4 m	152 kg	203 kg	254 kg	305 kg	356 kg	457 kg
	4.5 m	148 kg	198 kg	247 kg	296 kg	346 kg	445 kg
	5 m	142 kg	189 kg	236 kg	283 kg	331 kg	425 kg
	5.5 m	135 kg	180 kg	225 kg	271 kg	316 kg	406 kg
	6 m	129 kg	172 kg	215 kg	258 kg	301 kg	387 kg
 Ø 159 x 3.5 Ø 159 x 4.5	2 m	151 kg	201 kg	252 kg	283 kg	352 kg	453 kg
	2.5 m	147 kg	196 kg	245 kg	280 kg	343 kg	442 kg
	3 m	142 kg	189 kg	236 kg	280 kg	330 kg	425 kg
	3.5 m	138 kg	184 kg	230 kg	275 kg	321 kg	413 kg
	4 m	134 kg	179 kg	223 kg	268 kg	313 kg	402 kg
	4.5 m	130 kg	174 kg	217 kg	260 kg	304 kg	391 kg
	5 m	125 kg	166 kg	208 kg	249 kg	291 kg	374 kg
	5.5 m	119 kg	158 kg	198 kg	238 kg	277 kg	357 kg
	6 m	113 kg	151 kg	189 kg	226 kg	264 kg	340 kg
 Ø 168 x 3.5 Ø 168 x 4.5	2 m	143 kg	190 kg	238 kg	268 kg	333 kg	429 kg
	2.5 m	139 kg	186 kg	232 kg	265 kg	325 kg	418 kg
	3 m	134 kg	179 kg	223 kg	265 kg	313 kg	402 kg
	3.5 m	130 kg	174 kg	217 kg	261 kg	304 kg	391 kg
	4 m	127 kg	169 kg	211 kg	254 kg	296 kg	380 kg
	4.5 m	123 kg	164 kg	205 kg	246 kg	288 kg	370 kg
	5 m	118 kg	157 kg	196 kg	236 kg	275 kg	354 kg
	5.5 m	113 kg	150 kg	188 kg	225 kg	263 kg	338 kg
	6 m	107 kg	143 kg	179 kg	214 kg	250 kg	321 kg
 Ø 193.7 x 5.4	2 m	-	-	-	-	289 kg	372 kg
	2.5 m	-	-	-	-	282 kg	362 kg
	3 m	-	-	-	-	271 kg	348 kg
	3.5 m	-	-	-	-	264 kg	339 kg
	4 m	-	-	-	-	257 kg	330 kg
	4.5 m	-	-	-	-	249 kg	321 kg
	5 m	-	-	-	-	239 kg	307 kg
	5.5 m	-	-	-	-	228 kg	293 kg
	6 m	-	-	-	-	217 kg	279 kg



## Three-phase motors - T9 / T9M

The following chart shows a liftable curtain weight (kg) depending on the type of rolling tube, the height of the door and the motor torque:

Ø of tube	Curtain height	T9 / T9M				
		300 Nm	400 Nm	500 Nm	600 Nm	800 Nm
 Ø 101.6 x 3.6 Ø 102 x 2	2 m	441 kg	-	-	-	-
	2.5 m	440 kg	-	-	-	-
	3 m	440 kg	-	-	-	-
	3.5 m	429 kg	-	-	-	-
	4 m	418 kg	-	-	-	-
	4.5 m	406 kg	-	-	-	-
	5 m	388 kg	-	-	-	-
	5.5 m	371 kg	-	-	-	-
	6 m	353 kg	-	-	-	-
 Ø 108 x 3.6	2 m	417 kg	-	-	-	-
	2.5 m	415 kg	-	-	-	-
	3 m	415 kg	-	-	-	-
	3.5 m	406 kg	-	-	-	-
	4 m	394 kg	-	-	-	-
	4.5 m	383 kg	-	-	-	-
	5 m	367 kg	-	-	-	-
	5.5 m	350 kg	-	-	-	-
	6 m	333 kg	-	-	-	-
 Ø 127 x 3.25	2 m	355 kg	504 kg	630 kg	-	-
	2.5 m	355 kg	491 kg	614 kg	-	-
	3 m	354 kg	472 kg	591 kg	-	-
	3.5 m	345 kg	460 kg	575 kg	-	-
	4 m	335 kg	447 kg	559 kg	-	-
	4.5 m	326 kg	435 kg	543 kg	-	-
	5 m	312 kg	416 kg	520 kg	-	-
	5.5 m	298 kg	397 kg	496 kg	-	-
	6 m	283 kg	378 kg	472 kg	-	-
 Ø 133 x 2.5 Ø 133 x 4	2 m	340 kg	481 kg	602 kg	722 kg	-
	2.5 m	340 kg	469 kg	586 kg	704 kg	-
	3 m	338 kg	451 kg	564 kg	677 kg	-
	3.5 m	329 kg	439 kg	549 kg	659 kg	-
	4 m	320 kg	427 kg	534 kg	641 kg	-
	4.5 m	311 kg	415 kg	519 kg	623 kg	-
	5 m	298 kg	397 kg	496 kg	595 kg	-
	5.5 m	284 kg	379 kg	474 kg	568 kg	-
	6 m	271 kg	361 kg	451 kg	541 kg	-

Ø of tube	Curtain height	T9 / T9M				
		300 Nm	400 Nm	500 Nm	600 Nm	800 Nm
 Ø 139.7 x 3.6 Ø 139.7 x 3.2	2 m	322 kg	458 kg	573 kg	687 kg	-
	2.5 m	320 kg	447 kg	558 kg	670 kg	-
	3 m	320 kg	429 kg	537 kg	644 kg	-
	3.5 m	314 kg	418 kg	523 kg	627 kg	-
	4 m	305 kg	407 kg	508 kg	610 kg	-
	4.5 m	296 kg	395 kg	494 kg	593 kg	-
	5 m	283 kg	378 kg	472 kg	567 kg	-
	5.5 m	271 kg	361 kg	451 kg	541 kg	-
	6 m	258 kg	344 kg	429 kg	515 kg	-
 Ø 159 x 3.5 Ø 159 x 4.5	2 m	283 kg	403 kg	503 kg	604 kg	805 kg
	2.5 m	280 kg	392 kg	491 kg	589 kg	785 kg
	3 m	280 kg	377 kg	472 kg	566 kg	755 kg
	3.5 m	275 kg	367 kg	459 kg	551 kg	735 kg
	4 m	268 kg	357 kg	447 kg	536 kg	714 kg
	4.5 m	260 kg	347 kg	434 kg	521 kg	694 kg
	5 m	249 kg	332 kg	415 kg	498 kg	664 kg
	5.5 m	238 kg	317 kg	396 kg	475 kg	634 kg
	6 m	226 kg	302 kg	377 kg	453 kg	604 kg
 Ø 168 x 3.5 Ø 168 x 4.5	2 m	268 kg	381 kg	476 kg	571 kg	762 kg
	2.5 m	265 kg	371 kg	464 kg	557 kg	743 kg
	3 m	265 kg	357 kg	446 kg	536 kg	714 kg
	3.5 m	261 kg	348 kg	435 kg	521 kg	695 kg
	4 m	254 kg	338 kg	423 kg	507 kg	676 kg
	4.5 m	246 kg	329 kg	411 kg	493 kg	657 kg
	5 m	236 kg	314 kg	393 kg	471 kg	629 kg
	5.5 m	225 kg	300 kg	375 kg	450 kg	600 kg
	6 m	214 kg	286 kg	357 kg	429 kg	571 kg
 Ø 193.7 x 5.4	2 m	-	-	413 kg	496 kg	661 kg
	2.5 m	-	-	403 kg	483 kg	644 kg
	3 m	-	-	387 kg	465 kg	620 kg
	3.5 m	-	-	377 kg	452 kg	603 kg
	4 m	-	-	367 kg	440 kg	586 kg
	4.5 m	-	-	356 kg	427 kg	570 kg
	5 m	-	-	341 kg	409 kg	545 kg
	5.5 m	-	-	325 kg	390 kg	520 kg
	6 m	-	-	310 kg	372 kg	496 kg



# T5 & DMI5 motors wired single-phase, Ø 50 mm

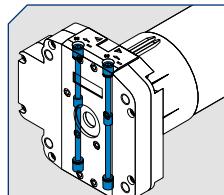
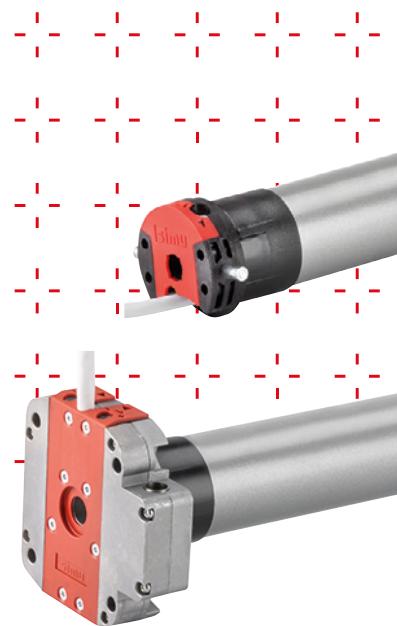
**RANGE OF TORQUE FROM 40 TO 50NM**

...to motorise doors up to 79kg.

**AVAILABLE WITH OR WITHOUT INTEGRATED  
MANUAL OVERRIDE**  
...in the motor head.

**MOTOR COMPATIBLE**

...with the SD100 Hz radio control box, providing  
secure installations with radio control.



The setting screws of the end-limits are positioned on either side of the head.  
and therefore always accessible, whatever its orientation.

## Range

POWER SUPPLY 230V - 50 Hz

Description	Torque	Speed	Power	Current	End-limit capacity	Weight	Reference
T5 - 40/12	40 Nm	12 rpm	240 W	1.1 A	28 rounds	2.73 kg	2000412
T5 - 50/12	50 Nm	12 rpm	240 W	1.1 A	28 rounds	2.75 kg	2000432
DMI 5 - 40/12	40 Nm	12 rpm	240 W	1.1 A	28 rounds	3.36 kg	2000756
DMI 5 - 50/12	50 Nm	12 rpm	240 W	1.1 A	28 rounds	3.37 kg	2000763

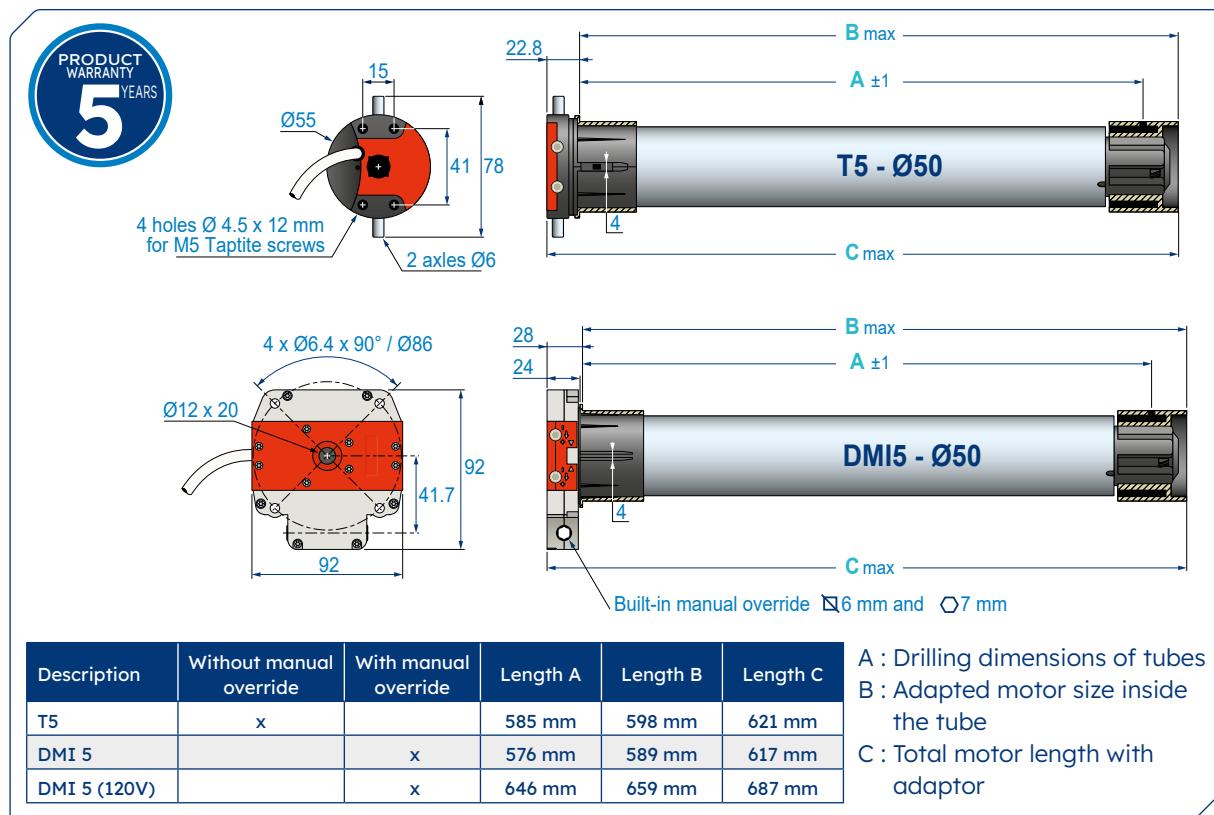
POWER SUPPLY 220V - 60 Hz

Description	Torque	Speed	Power	Current	End-limit capacity	Weight	Reference
T5 - 38/14	38 Nm	14 rpm	210 W	1 A	28 rounds	2.72 kg	2006161
DMI 5 - 38/14	38 Nm	14 rpm	210 W	1 A	28 rounds	3.35 kg	2006164

POWER SUPPLY 120V - 60 Hz

Description	Torque	Speed	Power	Current	End-limit capacity	Weight	Reference
T5 - 40/12	40 Nm	12 rpm	210 W	1.8 A	28 rounds	2.74 kg	2000652
T5 - 50/12	50 Nm	12 rpm	250 W	2.1 A	28 rounds	2.75 kg	2000653
DMI 5 - 40/12	40 Nm	12 rpm	210 W	1.8 A	28 rounds	3.48 kg	2000775
DMI 5 - 50/12	50 Nm	12 rpm	250 W	2.1 A	28 rounds	3.49 kg	2000776

## Dimensions



## Technical characteristics

**THERMAL CUT-OUT** 4 minutes (230V) or 2.25 minutes (220V) or 5 minutes (120V)

**REDUCTION RATIO** of the manual override: 27/1

**PROTECTION INDEX** IP 44

**POWER CABLE 230 V** 2.5 metres (4x0.75 mm<sup>2</sup> wires, white H05 VVF) or 0.7 m (4x0.75 mm<sup>2</sup> wires, black H05 RRF): ref consult us.

**POWER CABLE 220 V** 2.5 metres (4x0.75 mm<sup>2</sup> wires, white H05 VVF)

**POWER CABLE 120 V** 2.5 metres (4xAWG19 wires, white 05 VVF)

**BASE DIAMETER OF THE CROWN** for Ø50 x 1.5 mm round tube

**NUMBER OF CYCLES PER DAY** 4 non consecutive

## Recommended types of control

Type of control	Radio control		Wired control within sight, with maintained push, without safety accessory
Operating mode	Automatic or sequential		Maintained push
Control boxes	 SD100 Hz radio control board		Not required
Control points	 Key switch and push buttons	 Remote controls, radio transmitters and keypad	 Key switch or wired switch
Safety accessories	 Safety edge, photocell barrier & signalling light		Not required



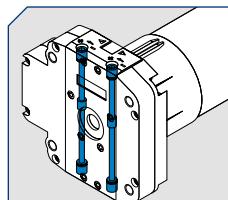
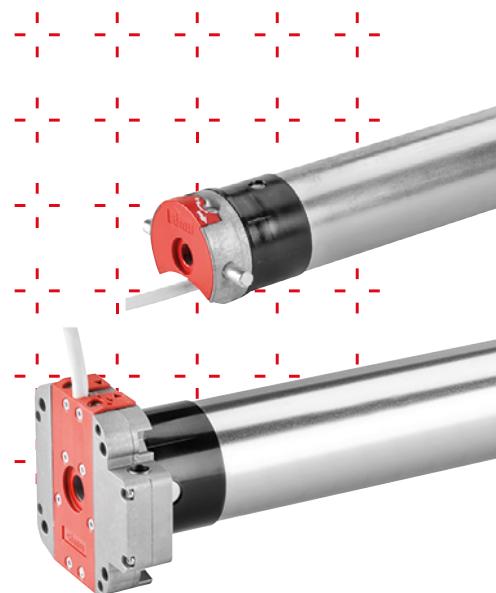
# T6 & DMI6 motors

## wired signle-phase, Ø 60 mm

**RANGE OF TORQUE FROM 80 TO 120NM**  
...to motorise doors up to 150kg.

**AVAILABLE WITH OR WITHOUT INTEGRATED  
MANUAL OVERRIDE**  
...in the motor head.

**MOTOR COMPATIBLE**  
...with the SD100 Hz radio control box, providing  
secure installations with radio control.



The setting screws of the end-limits are positioned on either side of the head.  
And therefore always accessible, whatever its orientation.

### Range

POWER SUPPLY 230V - 50 Hz

Description	Torque	Speed	Power	Current	End-limit capacity	Weight	Reference
T6 - 80/12	80 Nm	12 rpm	290 W	1.25 A	23 rounds	4.64 kg	2000922
T6 - 120/12	120 Nm	12 rpm	400 W	1.8 A	23 rounds	5.17 kg	2000934
DMI 6 - 80/12	80 Nm	12 rpm	290 W	1.25 A	28 rounds	4.85 kg	2001007
DMI 6 - 120/12	120 Nm	12 rpm	400 W	1.8 A	28 rounds	5.38 kg	2001013

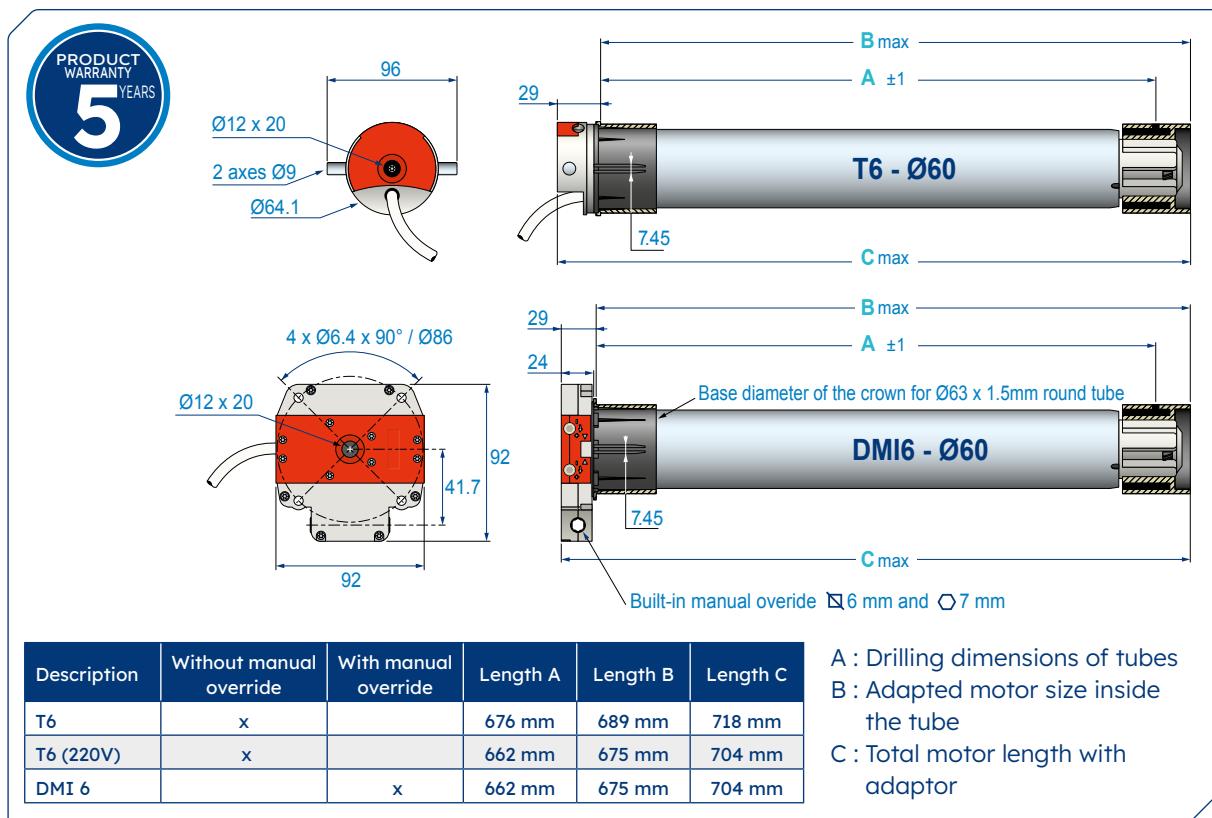
POWER SUPPLY 220V - 60 Hz

Description	Torque	Speed	Power	Current	End-limit capacity	Weight	Reference
T6 - 60/14	60 Nm	14 rpm	270 W	1.2 A	23 rounds	4.82 kg	2006165
DMI 6 - 80/14	80 Nm	14 rpm	350 W	1.6 A	28 rounds	5.25 kg	2006167
DMI 6 - 100/14	100 Nm	14 rpm	400 W	1.8 A	28 rounds	5.57 kg	2006168

POWER SUPPLY 120V - 60 Hz

Description	Torque	Speed	Power	Current	End-limit capacity	Weight	Reference
T6 - 80/14	80 Nm	14 rpm	390 W	3.4 A	23 rounds	4.97 kg	2000986
T6 - 100/14	100 Nm	14 rpm	430 W	3.8 A	23 rounds	5.31 kg	2000987
DMI 6 - 80/14	80 Nm	14 rpm	390 W	3.4 A	28 rounds	5.18 kg	2001042
DMI 6 - 100/14	100 Nm	14 rpm	430 W	3.8 A	28 rounds	5.54 kg	2001044

## Dimensions



## Technical characteristics

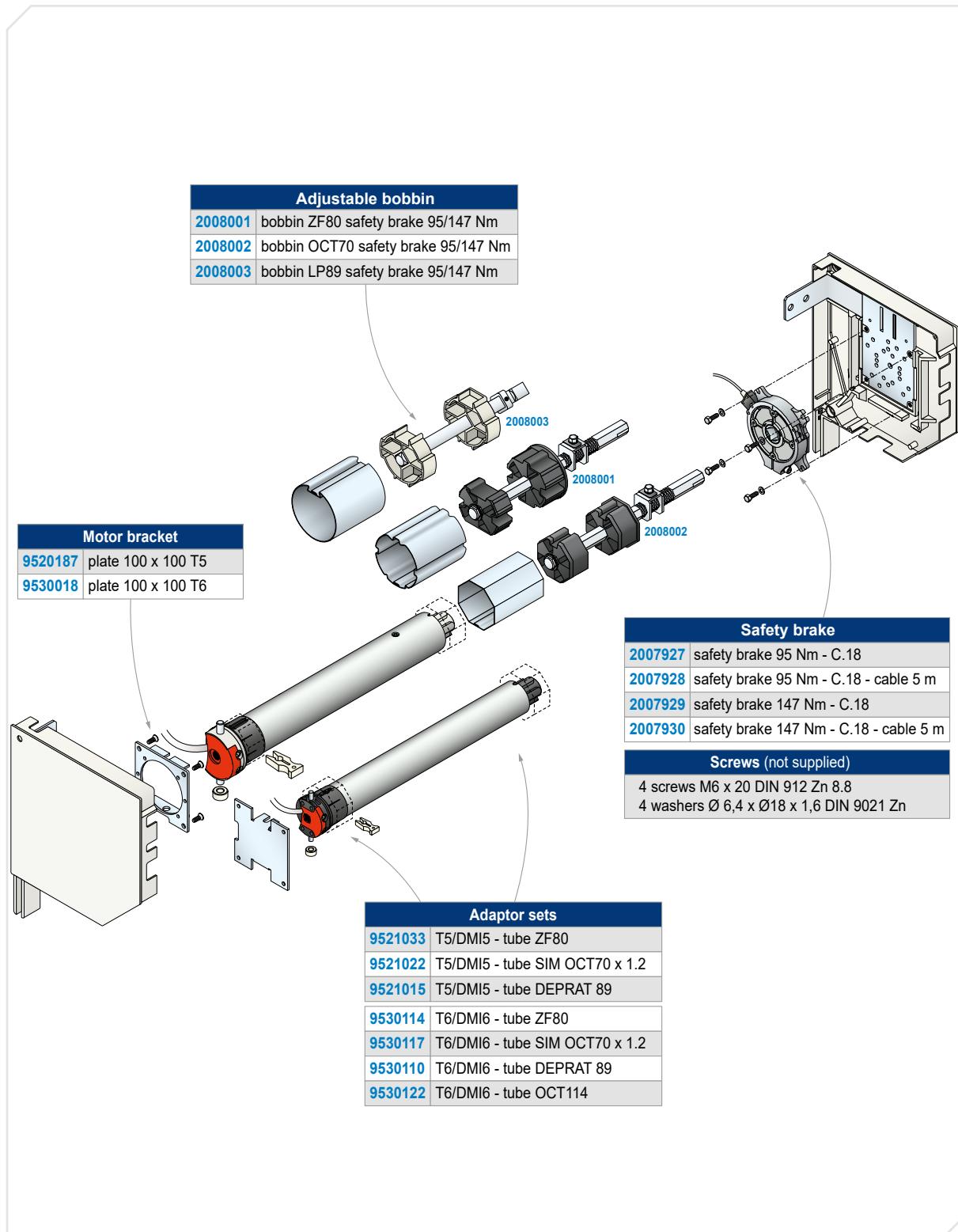
<b>THERMAL CUT-OUT</b>	4 minutes (230V) or 2.25 minutes (220V) or 5 minutes (120V)
<b>DMI6 REDUCTION RATIO</b>	of the manual override: 55/1
<b>PROTECTION INDEX</b>	IP 44
<b>POWER CABLE 230 V</b>	2.5 metres (4x0.75 mm <sup>2</sup> wires, white H05 VVF) or 0.7 metres (4x0.75 mm <sup>2</sup> wires, black H05 RRF): ref consult us.
<b>POWER CABLE 220 V</b>	2.5 metres (4x0.75 mm <sup>2</sup> wires, white H05 VVF)
<b>POWER CABLE 120 V</b>	2.5 metres (4xAWG19 wires, white 05 VVF)
<b>BASE DIAMETER OF THE CROWN</b>	for Ø63 x 1.5 mm round tube
<b>NUMBER OF CYCLES PER DAY</b>	4 non consecutive

## Recommended types of control

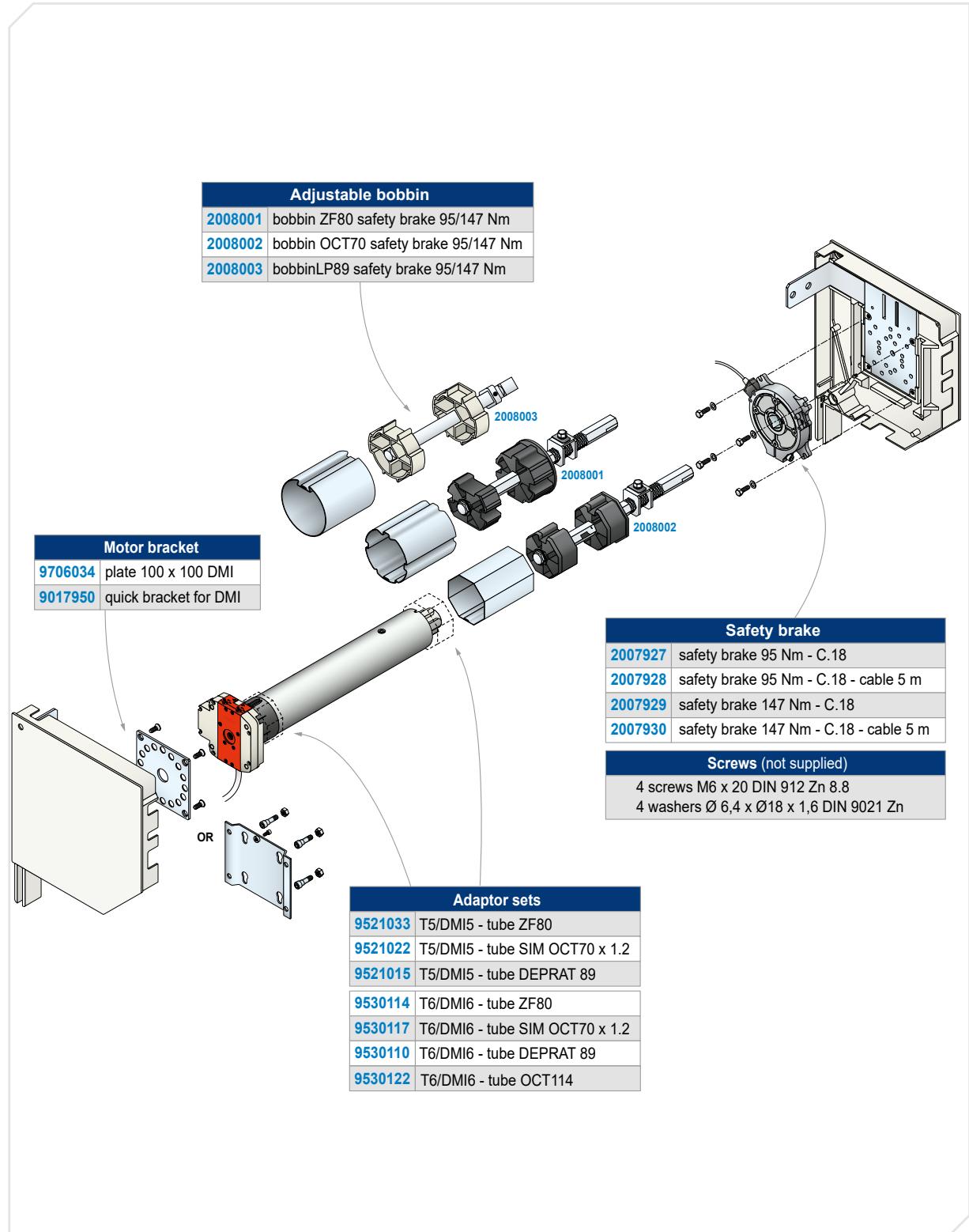
Type of control	Radio control		Wired control within sight, with maintained push, without safety accessory
Operating mode	Automatic or sequential		Maintained push
Control boxes	 <b>SD100 Hz radio control board</b>		Not required
Control points	 Key switch and push buttons	 Remote controls, radio transmitters and Keypad	 Key switch or wired switch
Safety accessories	 Safety edge, photocell barrier & signalling light		Not required



# Accessories for mounting on side frame with T5, T6 motors and safety brake

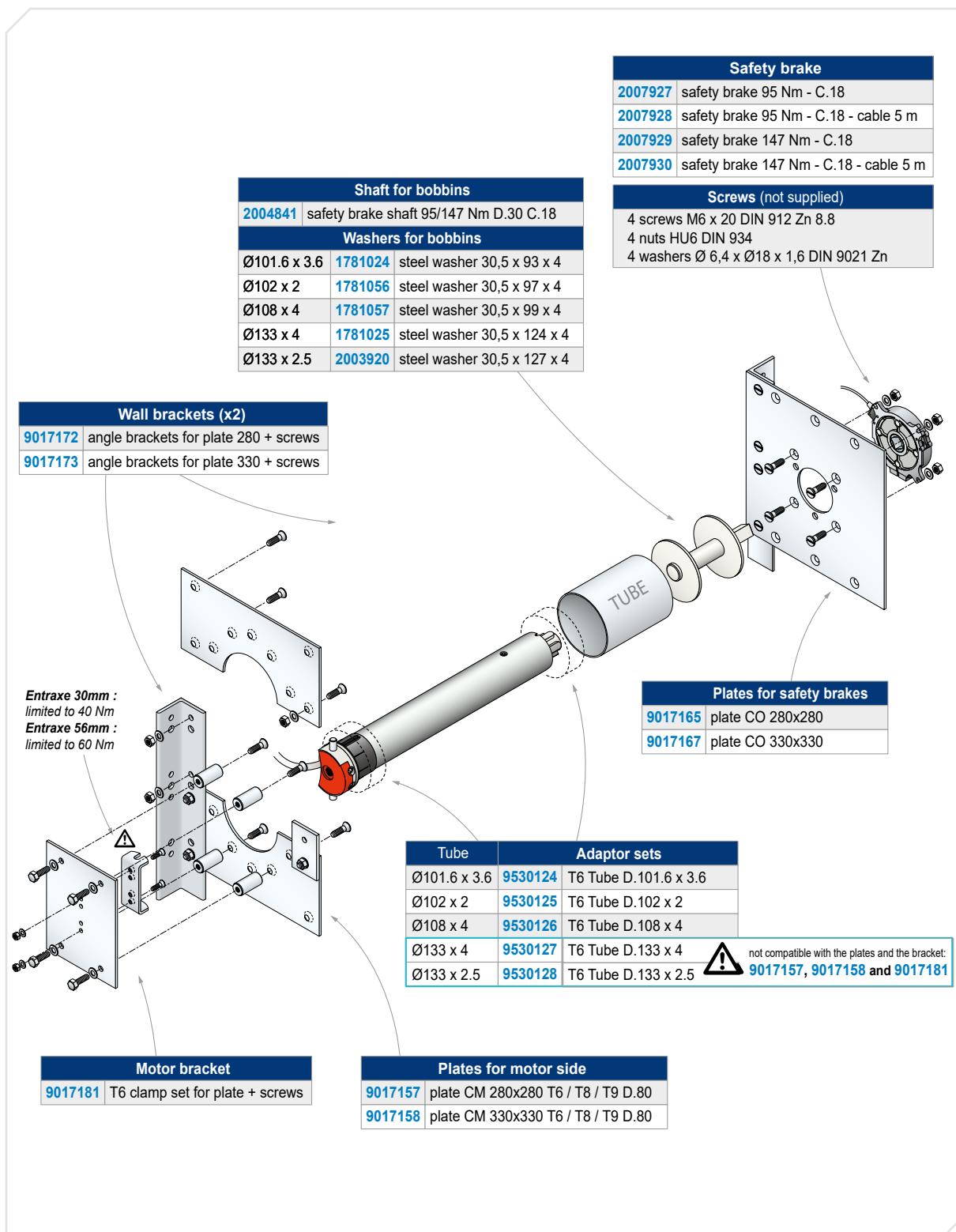


# Accessories for mounting on side frame with DMI5, DMI6 motors and safety brake

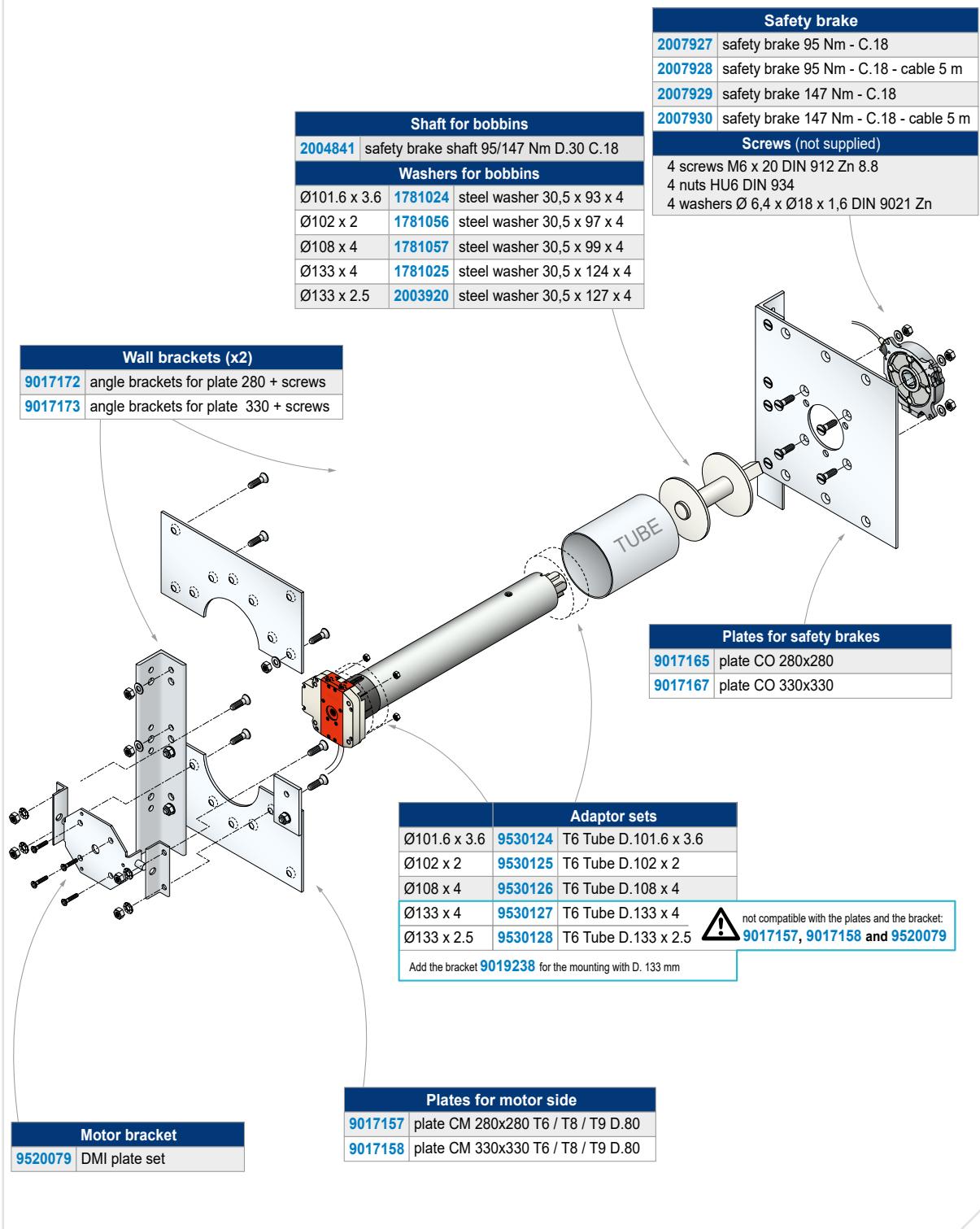




# Accessories for plate mounting for T6 motor and safety brake



# Accessories for plate mounting for DMI6 motor and safety brake

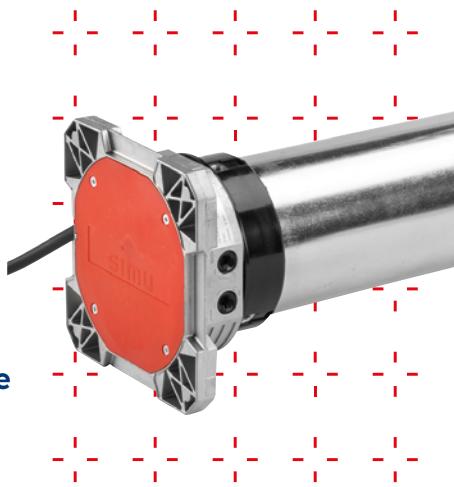




# T8S & T8S DMI motors wired single-phase, Ø 80 mm

**NARROW MOTOR HEAD, ONLY 43 MM THICK, WITH OR WITHOUT INTEGRATED MANUAL OVERRIDE**

...optimised for installation between walls, with metal stud of 50 mm width and safety brake on the opposite side.



## FLEXIBILITY OF INSTALLATION

...the motor head with square shape, 4 mounting positions and its orientable bracket allows a positioning of the motor head without any constraint, adapting to all configurations.

## MOTOR COMPATIBLE

...with the SD100 Hz radio control box, providing secure installations with radio control.

### Range

230V - 50HZ POWER SUPPLY

Description	Torque	Power	Current	Speed	End-limit capacity	Base diameter	Weight	References	
								WITHOUT SAFETY END-LIMIT	WITH SAFETY END-LIMIT
T8S 150	150 Nm	500 W	2,2 A	8 rpm	17 rounds	94 mm	9,5 Kg	<a href="#">2008290</a>	<a href="#">2008276</a>
T8S 200	200 Nm	550 W	2,4 A	8 rpm	17 rounds	94 mm	11 Kg	<a href="#">2008291</a>	<a href="#">2008277</a>
T8S 250	250 Nm	710 W	3,2 A	8 rpm	17 rounds	94 mm	11,5 Kg	<a href="#">2008292</a>	<a href="#">2008278</a>
T8S 300	300 Nm	855 W	3,9 A	8 rpm	17 rounds	94 mm	12 Kg	-	<a href="#">2008279</a>
T8S DMI 150	150 Nm	500 W	2,2 A	8 rpm	17 rounds	94 mm	11 Kg	<a href="#">2008304</a>	<a href="#">2008280</a>
T8S DMI 200	200 Nm	550 W	2,4 A	8 rpm	17 rounds	94 mm	12,5 Kg	<a href="#">2008305</a>	<a href="#">2008281</a>
T8S DMI 250	250 Nm	800 W	3,6 A	8 rpm	17 rounds	94 mm	13 Kg	<a href="#">2008306</a>	<a href="#">2008282</a>
T8S DMI 300	300 Nm	855 W	3,9 A	8 rpm	17 rounds	94 mm	13,5 Kg	<a href="#">2008307</a>	<a href="#">2008283</a>

120V - 60HZ POWER SUPPLY

Description	Torque	Power	Current	Speed	End-limit capacity	Base diameter	Weight	References	
								WITH SAFETY END-LIMIT	
T8S 200	200 Nm	620 W	5,3 A	10 rpm	17 rounds	94 mm	11 Kg		<a href="#">2008288</a>
T8S 280	280 Nm	820 W	6,9 A	10 rpm	17 rounds	94 mm	12 Kg		<a href="#">2008289</a>
T8S DMI 200	200 Nm	620 W	5,3 A	10 rpm	17 rounds	94 mm	12,5 Kg		<a href="#">2008302</a>
T8S DMI 280	280 Nm	820 W	6,9 A	10 rpm	17 rounds	94 mm	13,5 Kg		<a href="#">2008303</a>

220V - 60HZ POWER SUPPLY

Description	Torque	Power	Current	Speed	End-limit capacity	Base diameter	Weight	References	
								WITHOUT SAFETY END-LIMIT	
T8S 200	200 Nm	600 W	2,7 A	10 rpm	17 rounds	94 mm	11 Kg		<a href="#">2008295</a>
T8S DMI 200	200 Nm	600 W	2,7 A	10 rpm	17 rounds	94 mm	12,5 Kg		<a href="#">2008309</a>
T8S DMI 270	270 Nm	700 W	3,3 A	10 rpm	17 rounds	94 mm	12,5 Kg		<a href="#">2009720</a>

## Dimensions



**5**  
PRODUCT WARRANTY  
YEARS

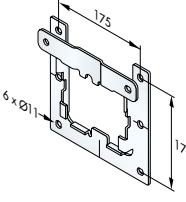


**T8S - T8S DMI**

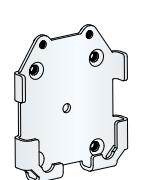
Integrated manual override Ø 7 mm and Ø 6 mm (only in the T8S DMI version)

Description	Without manual override	With manual override	Length A		Length B		Length C	
T8S	x		43 mm*	49 mm**	8 mm*	18 mm**	609 mm*	595 mm**
T8S DMI		x	43 mm*	49 mm**	8 mm*	18 mm**	659 mm*	645 mm**

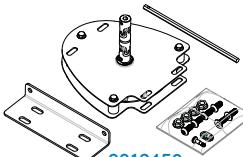
\* Length with adaptor < 119 mm    \*\* Length with adaptor ≥ 119 mm



9018069 or 9018070 or 9018127



9019839 or 9018370



9019458



9019460

Description	Reference	
x1	x10	
Bracket (entraxle 175 x 175 mm)	9018069 *	9018070 *
Bracket for plate mounting (entraxle 175 x 175 mm)	9018127 *	-
Bracket to be soldered (entraxle 80 x 100 mm)	9019839 *	-
Compact bracket to screw (entraxle 80 x 100 mm)	9018370 *	-

Description	Reference
x1	
Chain manual override kit (without chain)	9019458 *
Chain length 10 meters (adjustable length)	9019460 *

\* Accessories sold separately

## Technical characteristics

**THERMAL CUT-OUT** 4 minutes

**T8S DMI REDUCTION RATIO** of the manual override: 190/1

**PROTECTION INDEX** IP 44

**POWER CABLE 230 V** 2.5 metres (4x0.75 mm<sup>2</sup> wires, black H05 RRF)

**POWER CABLE 220 V** 2.5 metres (4x0.75 mm<sup>2</sup> wires, black H05 RRF)

**POWER CABLE 120 V** 0.7 metres (4xAWG19 wires, white 05 VVF)

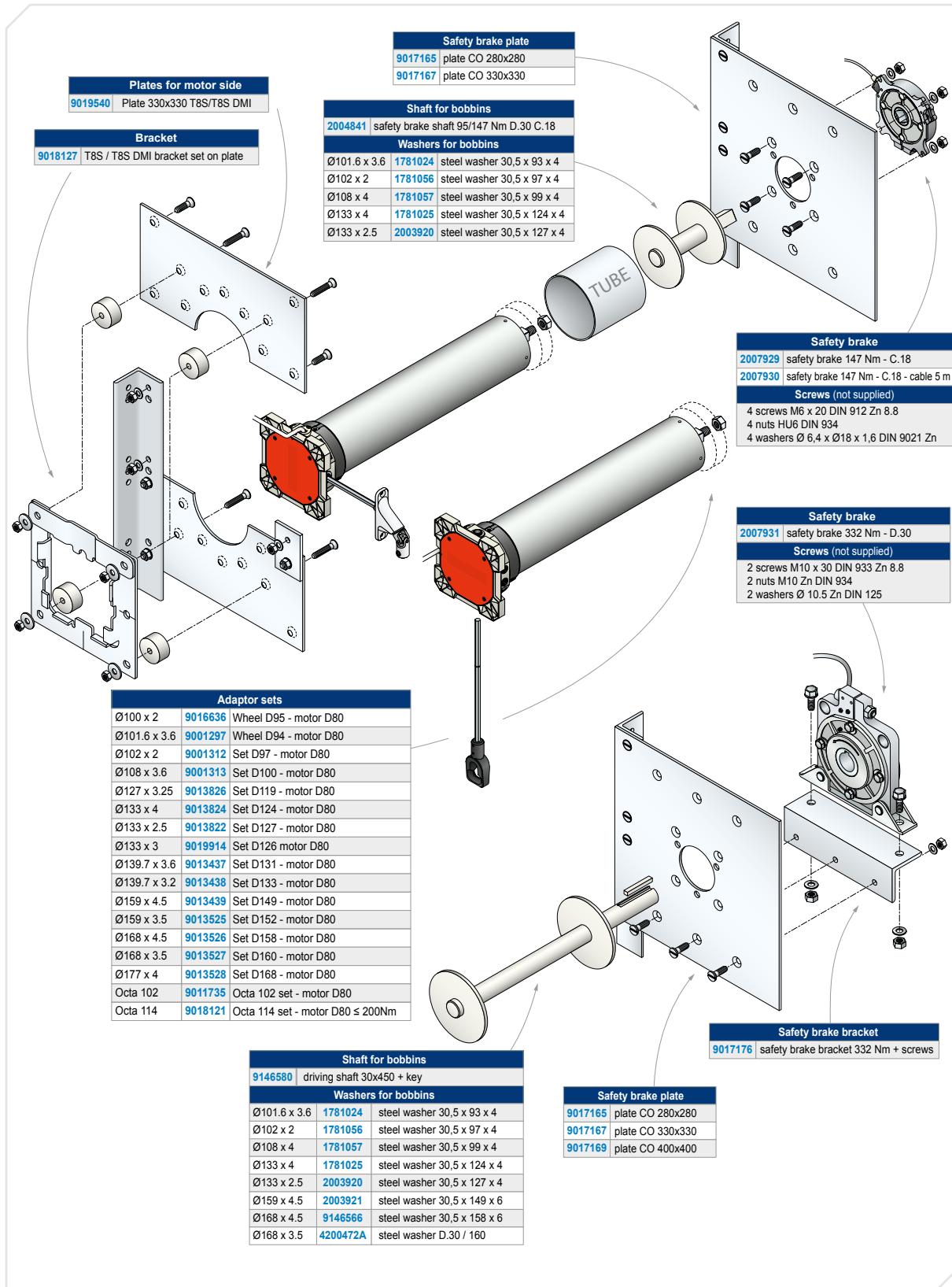
**NUMBER OF CYCLES PER DAY** 10 cycles non consecutive

## Recommended types of control

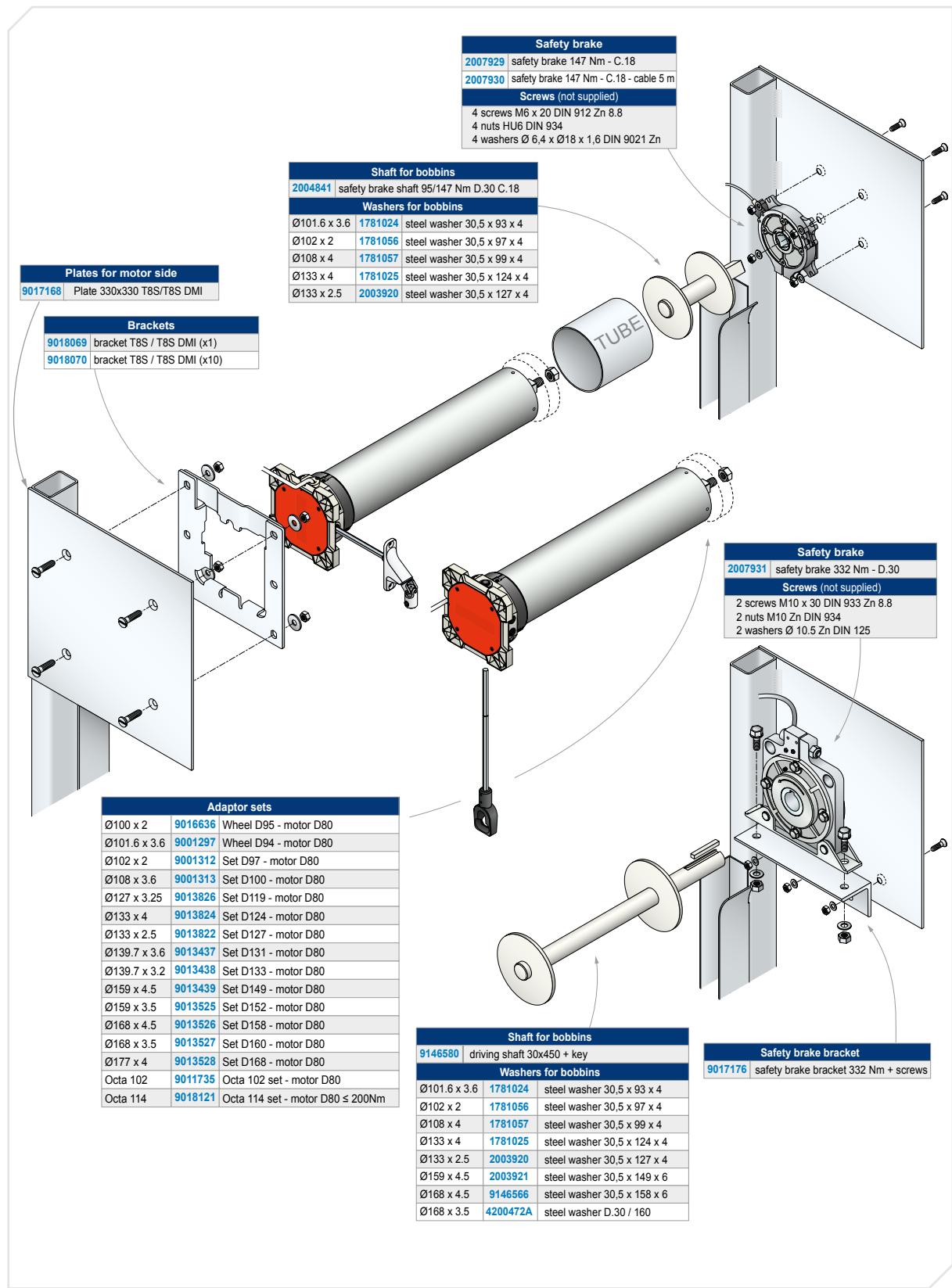
Type of control	Radio control		Wired control within sight, with maintained push, without safety accessory
Operating mode	Automatic or sequential		Maintained push
Control boxes	 SD100 Hz radio control board		Not required
Control points	 Key switch and push buttons	 Remote controls, radio transmitters and keypad	 Key switch or wired switch
Safety accessories	 Safety edge, photocell barrier & signalling light		Not required



# Accessoires for plate mounting for T8S, T8S DMI motors and safety brake



# Accessories for mounting between walls on plates for T8S, T8S DMI motors and safety brake





# T8F motors wired single-phase

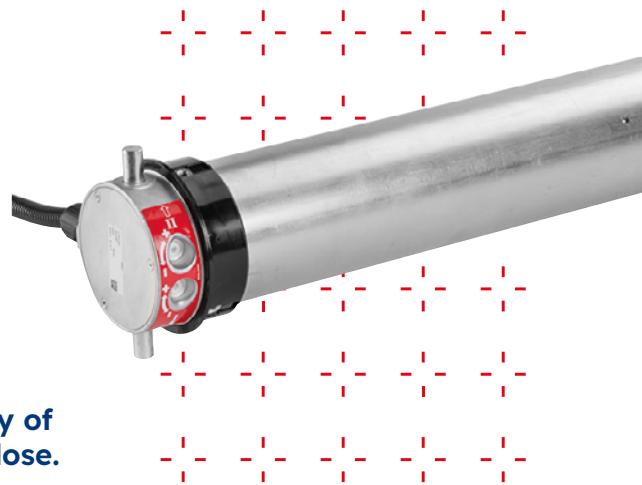
**300 NM MOTOR  
FOR LARGE FIRE CURTAINS  
AND FIRE DOORS**

**SINGLE-PHASE MOTOR** with gravity drop technology: switching off the 24V power supply of the brake triggers the curtain or the door to close.

**CONTROLLED GRAVITY DROP: 12 rpm maximum.**

**MOTOR DIAMETER:** 300 Nm motor with Ø80 mm tube diameter.

**SAME INSTALLATION AS THE REST OF T8 RANGE.**



In the event of a fire, the curtain or the door closes automatically at a controlled rate to prevent the fire from spreading to adjacent areas of the building to ensure the safety of those present.



## REMINDER

The product presented above is intended exclusively for installation by professionals in the field of motorisation and building automation. Due to its technical nature, this product requires specific and/or specialised knowledge in order to meet the requirements and constraints of integration and maintenance.

## Range

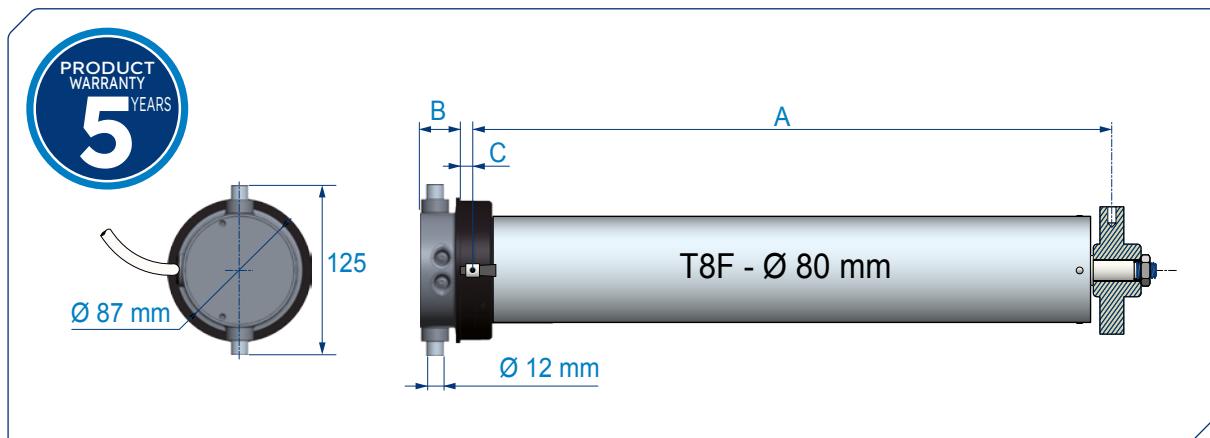
230V / 50 Hz power supply

Description	With manual override	Without manual override	Dimensions (mm)						Weight	References
			A		B		C			
T830/8F	-	X	659 *	645 **	32 *	38 **	8 *	18 **	13 kg	2009654

\* Length with adaptor < 119 mm

\*\* Length with adaptor ≥ 119 mm

## Dimensions



## Technical characteristics

### Specifications

**TORQUE** 300 Nm maximum

**SPEED** 8 rpm (electrical movement).

**END LIMITS** external for connection to control board

**END LIMIT CAPACITY** 21 Turns

**OPERATING TEMPERATURE** +5°C / +40°C

**MINIMUM INTERNAL TUBE DIAMETER** 94 mm

**POWER SUPPLY** 230 V ~50 HZ + 24 VDC SELV (brake)

**POWER** 855 W

**CURRENT** 3.9 A

**SHEATH** 1 meter (halogen-free) :

- 3 conductors of 0.34 mm<sup>2</sup> for motor supply
- 2 conductors of 0.6 mm<sup>2</sup> for brake 24V supply
- 4 conductors of 0.6 mm<sup>2</sup> for end limits
- 1 conductor of 1 mm<sup>2</sup> for earth

### GRAVITY DROP TECHNOLOGY CHARACTERISTICS

**BRAKE** - DIBt certified (KEB ref 0602120-5627)

- wired to 24V DC SELV

- brake is no longer active as soon as the 24V DC SELV supply is switched off

**BRAKE CONSUMPTION** 12 W in 24V DC SELV

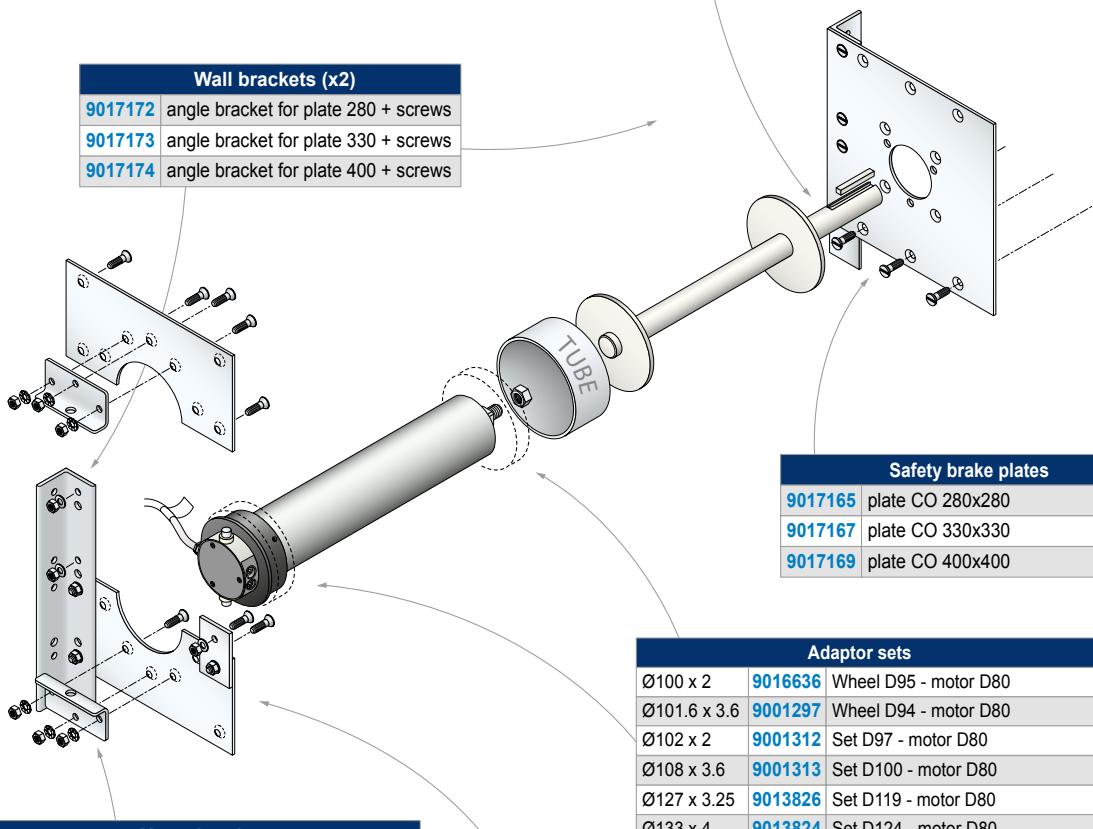
**GRAVITY SPEED** 12 rpm maximum



## T8F accessories

Shaft for bobbins		
<b>9146580</b>	driving shaft 30x450 + key	
Washers for bobbins		
Ø101.6 x 3.6	<b>1781024</b>	steel washer 30,5 x 93 x 4
Ø102 x 2	<b>1781056</b>	steel washer 30,5 x 97 x 4
Ø108 x 4	<b>1781057</b>	steel washer 30,5 x 99 x 4
Ø133 x 4	<b>1781025</b>	steel washer 30,5 x 124 x 4
Ø133 x 2.5	<b>2003920</b>	steel washer 30,5 x 127 x 4
Ø159 x 4.5	<b>2003921</b>	steel washer 30,5 x 149 x 6
Ø168 x 4.5	<b>9146566</b>	steel washer 30,5 x 158 x 6
Ø168 x 3.5	<b>4200472A</b>	steel washer D.30 / 160

Wall brackets (x2)		
<b>9017172</b>	angle bracket for plate 280 + screws	
<b>9017173</b>	angle bracket for plate 330 + screws	
<b>9017174</b>	angle bracket for plate 400 + screws	



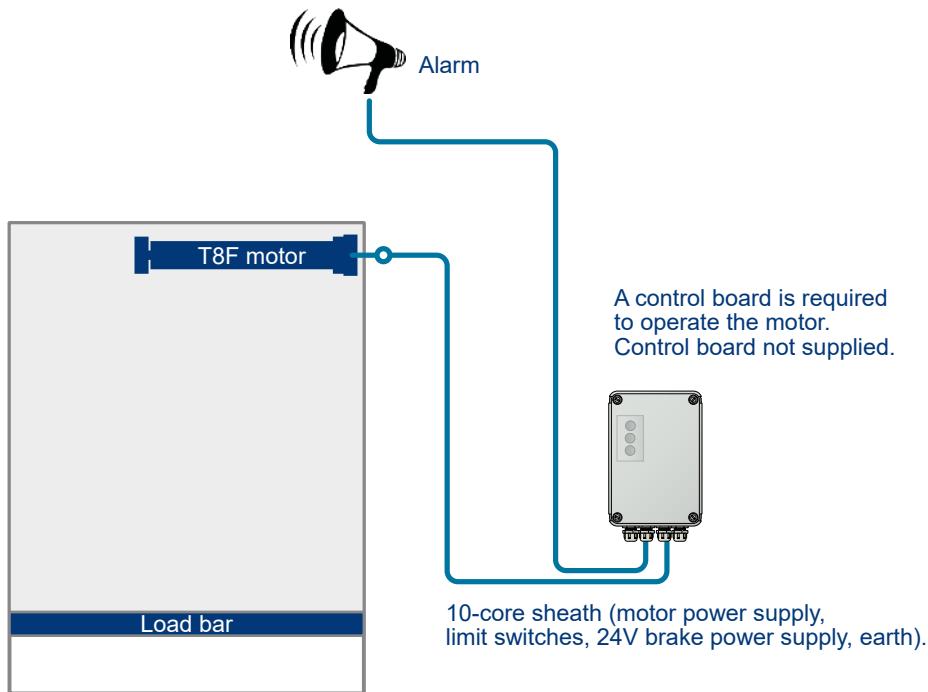
Safety brake plates		
<b>9017165</b>	plate CO 280x280	
<b>9017167</b>	plate CO 330x330	
<b>9017169</b>	plate CO 400x400	

Motor bracket		
<b>9001413</b>	angle bracket set T8/T9 D.80	
<b>9015134</b>	angle bracket set T8/T9 D.80 with oblongs	

Plates for motor side		
<b>9017157</b>	plate CM 280x280 T6 / T8 / T9 D.80	
<b>9017158</b>	plate CM 330x330 T6 / T8 / T9 D.80	
<b>9017161</b>	plate CM 400x400 T8 / T9 D.80	

Adaptor sets		
Ø100 x 2	<b>9016636</b>	Wheel D95 - motor D80
Ø101.6 x 3.6	<b>9001297</b>	Wheel D94 - motor D80
Ø102 x 2	<b>9001312</b>	Set D97 - motor D80
Ø108 x 3.6	<b>9001313</b>	Set D100 - motor D80
Ø127 x 3.25	<b>9013826</b>	Set D119 - motor D80
Ø133 x 4	<b>9013824</b>	Set D124 - motor D80
Ø133 x 2.5	<b>9013822</b>	Set D127 - motor D80
Ø139.7 x 3.6	<b>9013437</b>	Set D131 - motor D80
Ø139.7 x 3.2	<b>9013438</b>	Set D133 - motor D80
Ø159 x 4.5	<b>9013439</b>	Set D149 - motor D80
Ø159 x 3.5	<b>9013525</b>	Set D152 - motor D80
Ø168 x 4.5	<b>9013526</b>	Set D158 - motor D80
Ø168 x 3.5	<b>9013527</b>	Set D160 - motor D80
Ø177 x 8	<b>9013528</b>	Set D168 - motor D80
Octa 102	<b>9011735</b>	Octa 102 set - motor D80
Octa 114	<b>9018121</b>	Octa 114 set - motor D80 ≤ 200Nm
Octa 114	<b>9018122</b>	Octa 114 set - motor D80 > 200Nm

## Operating principle & typical installation



### WARNING

In addition to the instructions described in the safety instructions and the product manual, pay particular attention to the following essential points:

- The T8F motor is designed to operate vertically wound fire curtains or doors for commercial and industrial premises and to ensure gravity closure by releasing the hold-open device. It has been qualified to perform 10 000 cycles (maximum 10 non consecutive cycles per day).
- The T8F motor, when used on a fire curtain or door, is part of a security system. Following the installation and maintenance instructions is essential to ensure the safety of people and property.
- 3 elements are essential in its commissioning:
  - The sizing of the load bar to ensure the gravity drop is triggered.
  - The checking of the gravity drop speed.
  - Monthly maintenance of the motor (use of a minimum cycle in electrical operation).

As a reminder, it is the responsibility of SIMU's professional customers to inform their own customers of the conditions of installation, use and maintenance of the products, and the safety measures to be observed, by adapting and completing the information provided by SIMU to the complete motorised products and to the type of customer. In this respect, as a knowledgeable professional, you must ensure that each product is accompanied by the instructions required by the applicable regulations.



# T8 & T8M motors wired single-phase

**THE WIDEST RANGE OF TORQUE,  
FROM 150 TO 450NM**

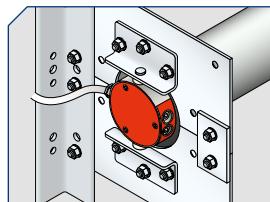
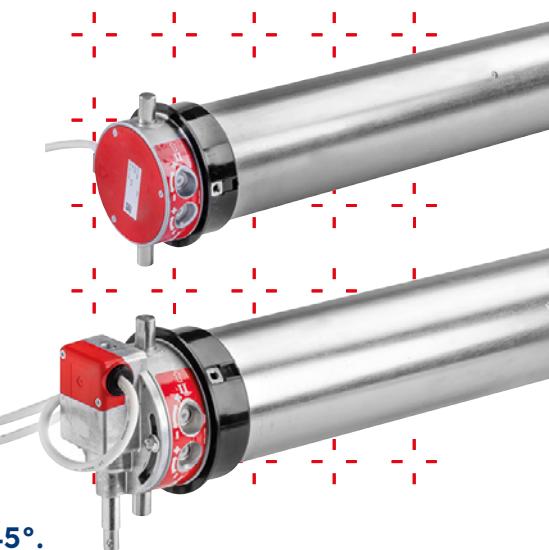
**...with single phase power supply.**

**MOTOR COMPATIBLE**

**...with the SD100 Hz radio control box, providing  
secure installations with radio control.**

**T8M VERSION AVAILABLE**

**...with integrated manual override, orientable from 45°.**



The fixing system of motor with pins, a SIMU's specificity, guarantees a robust and sustainable maintain of the system.

## Range

POWER SUPPLY 230V - 50 HZ

Description	Torque	Speed	Power	Current	End-limit capacity	Base diameter	Weight	Reference	
								Without safety end-limit	With safety end-limit
T815	150 Nm	8 rpm	500 W	2.2 A	17 rounds	94 mm	11 kg	2007851	2004502
T825	250 Nm	8 rpm	680 W	3.2 A	17 rounds	94 mm	12.6 kg	-	2004504
T825	250 Nm	8 rpm	680 W	3.2 A	21 rounds	94 mm	12.6 kg	-	2004252
T830	300 Nm	8 rpm	855 W	3.9 A	17 rounds	94 mm	12.6 kg	-	2007989
T835	350 Nm	8 rpm	990 W	4.4 A	15 rounds	124 mm	18.7 kg	2007855	2006236
T845	450 Nm	8 rpm	1200 W	5.3 A	15 rounds	124 mm	19.8 kg	2007857	2006237
T815 M	150 Nm	8 rpm	500 W	2.2 A	17 rounds	94 mm	12 kg	2007852	2004503
T825 M	250 Nm	8 rpm	680 W	3.2 A	17 rounds	94 mm	14 kg	2007854	2004505
T825 M	250 Nm	8 rpm	680 W	3.2 A	21 rounds	94 mm	14 kg	-	2007406
T830 M	300 Nm	8 rpm	855 W	3.9 A	17 rounds	94 mm	13.3 kg	2007992	2007990
T835 M	350 Nm	8 rpm	990 W	4.4 A	15 rounds	124 mm	19.6 kg	2007856	2006242
T845 M	450 Nm	8 rpm	1200 W	5.3 A	15 rounds	124 mm	20.7 kg	2007858	2006243

Packaging x10 on request.

POWER SUPPLY 220V - 60 HZ

Description	Torque	Speed	Power	Current	End-limit capacity	Base diameter	Weight	Reference with safety end-milit
T845	450 Nm	10 rpm	1200 W	5.5 A	15 rounds	124 mm	20.7 kg	2006435
T845 M	450 Nm	10 rpm	1200 W	5.5 A	15 rounds	124 mm	21.6 kg	2006680

POWER SUPPLY 120V - 60 HZ

Description	Torque	Speed	Power	Current	End-limit capacity	Base diameter	Weight	Reference without safety end-limit
T820	200 Nm	10 rpm	620 W	5.3 A	17 rounds	94 mm	12.6 kg	2004248
T820 M	200 Nm	10 rpm	620 W	5.3 A	17 rounds	94 mm	13.4 kg	2004249

## Dimensions

	Description	Length D	Length E	Length A		Length B		Length C	
	T815	-	-	609 mm*	595 mm**	32 mm*	38 mm**	8 mm*	18 mm**
	T825			654 mm		35 mm		18 mm	
	T830			609 mm*		64 mm*	69 mm**	8 mm*	18 mm**
	T835	-	-	654 mm		85 mm		18 mm	
	T845			654 mm		85 mm		18 mm	
	T825M	62	82	609 mm*	595 mm**	64 mm*	69 mm**	8 mm*	18 mm**
	T825M			654 mm		35 mm		18 mm	
	T830M			609 mm*		64 mm*	69 mm**	8 mm*	18 mm**
	T835M	77	87	654 mm		85 mm		18 mm	
	T845M			654 mm		85 mm		18 mm	

\* Length with adaptor < 119 mm      \*\* Length with adaptor ≥ 119 mm

## Technical characteristics

THERMAL CUT-OUT 4 minutes

T8M REDUCTION RATIO of the manual override: 216/1

PROTECTION INDEX IP 44

POWER CABLE 230 V 0.7 metres (4x0.75 mm<sup>2</sup> wires, white H05 VVF)

POWER CABLE 220 V 0.7 metres (4x0.75 mm<sup>2</sup> wires, white H05 VVF)

POWER CABLE 120 V 0.7 metres (4 wires AWG19, white 05 VVF)

NUMBER OF CYCLES PER DAY 10 cycles non consecutive

## Recommended types of control

Type of control	Radio control		Wired control within sight, with maintained push, without safety accessory
Operating mode	Automatic or sequential		Maintained push
Control boxes	 SD100 Hz radio control board		Not required
Control points	 Key switch and push buttons	 Remote controls, radio transmitters and keypad	 Key switch or wired switch
Safety accessories	 Safety edge, photocell barrier & signalling light		Not required



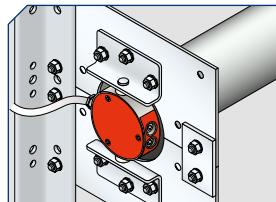
## T9 & T9M motors wired three-phase



**THE MOST POWERFUL TORQUE RANGE,  
FROM 300 TO 800NM with three-phase power supply.**

**THE T9 (800 NM) IS THE BEST COMPROMISE ON THE MARKET** offering both a compact solution and high lifting capacity (up to 800 kg).

**T9M VERSION AVAILABLE** with integrated manual override, orientable from 45°.



The fixing system of motor with pins, a SIMU's specificity, guarantees a robust and sustainable maintain of the system.

### Range

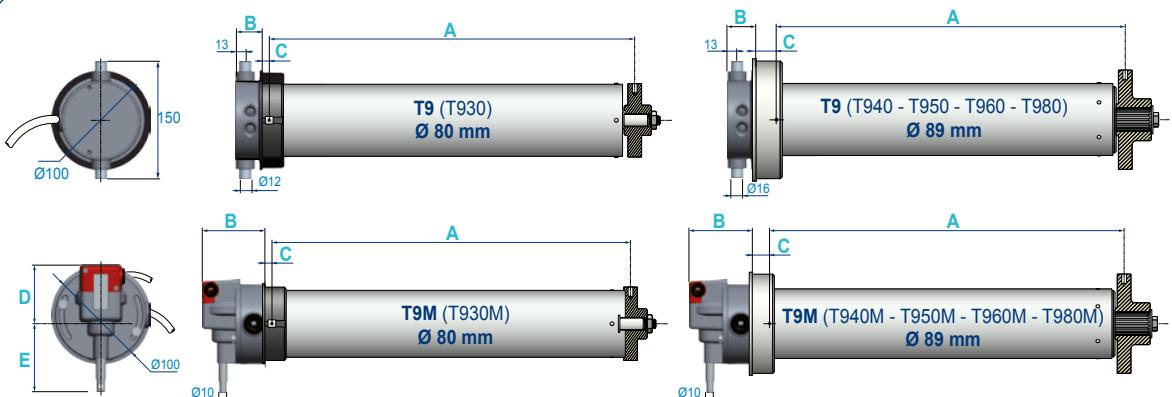
POWER SUPPLY 230V/400V - 50 Hz

Description	Torque	Speed	Power	Current		End-limit capacity	Base diameter	Weight	Reference
				3 x 230V~ 50Hz	3 x 400V~ 50Hz				
T930	300 Nm	8 rpm	610 W	2 A	1.2 A	17 rounds	94 mm	11.7 kg	2006761
T940	400 Nm	8 rpm	750 W	2.6 A	1.5 A	15 rounds	124 mm	18.7 kg	2006790
T950	500 Nm	9 rpm	830 W	2.9 A	1.7 A	15 rounds	124 mm	25.5 kg	2006791
T960	600 Nm	9 rpm	920 W	3 A	1.8 A	15 rounds	124 mm	25.5 kg	2006792
T980	800 Nm	9 rpm	1250 W	4 A	2.3 A	15 rounds	124 mm	27.4 kg	2006793
T930M	300 Nm	8 rpm	610 W	2 A	1.2 A	17 rounds	94 mm	12.5 kg	2006762
T940M	400 Nm	8 rpm	750 W	2.6 A	1.5 A	15 rounds	124 mm	19.6 kg	2006794
T950M	500 Nm	9 rpm	830 W	2.9 A	1.7 A	15 rounds	124 mm	26.4 kg	2006795
T960M	600 Nm	9 rpm	920 W	3 A	1.8 A	15 rounds	124 mm	26.4 kg	2006796
T980M	800 Nm	9 rpm	1250 W	4 A	2.3 A	15 rounds	124 mm	28.3 kg	2006797

POWER SUPPLY 220V - 60 Hz

Description	Torque	Speed	Power	Current	End-limit capacity	Base diameter	Weight	Reference
T925M	250Nm	8 rpm	700 W	1.9 A	17 rounds	94 mm	17 kg	2009727
T940M	400 Nm	10 rpm	750 W	2.6 A	15 rounds	124 mm	25 kg	2009340
T960M	600 Nm	10 rpm	1300 W	3.4 A	15 rounds	124 mm	33 kg	2009728
T960 R M	600 Nm	10 rpm	1300 W	3.4 A	15 rounds	158 mm	33 kg	2009729

## Dimensions



Description	Length D	Length E	Length A	Length B		Length C	
T930	-	-	609 mm*	595 mm**	32 mm*	38 mm**	8 mm* 18 mm**
T940 - T950 - T960	-	-	654 mm		35 mm		18 mm
T980	-	-	656 mm		36 mm***	40 mm***	18 mm*** 15 mm****
T930M	62 mm	82 mm	609 mm*	595 mm**	64 mm*	69 mm**	8 mm* 18 mm**
T940M - T950M - T960M	77 mm	87 mm	654 mm		85 mm		18 mm
T980M	77 mm	87 mm	656 mm		79 mm***	83 mm***	18 mm*** 15 mm***

\* Length with adaptor < 119 mm

\*\* Length with adaptor ≥ 119 mm

\*\*\* Length with adaptor < 168 mm

\*\*\*\* Length with adaptor = 168 mm

## Technical characteristics

**THERMAL CUT-OUT** 20 minutes

**T9M REDUCTION RATIO** of the manual override: 216/1

**PROTECTION INDEX** IP 44

**MOTOR CABLE** 1 meter

**NUMBER OF CYCLES PER DAY** 30 cycles non consecutives

## Recommended types of control

Type of control	Radio control	Wired control with safety accessories	Wired control within sight, with maintained push, without safety accessory
Operating mode	Automatic or sequential	3 buttons or automatic	Maintained push
Control boxes	SD510 control box + HZ/RTS standard receiver	SD510 control box	SD350 control box
Control points	Key switch or wired switch	Remote controls & radio transmitters	Key switch or wired switch
Safety accessories	Safety edge, photocell barrier & signalling light		Not required



# Accessories for plate mounting for T8 (815) motor and safety brake

The diagram illustrates the assembly of the plate mounting system. It shows two wall brackets (x2) being attached to a wall, each secured with four screws. A tube is then inserted through the brackets and the motor/safety brake assembly. The assembly consists of a motor/safety brake unit, a plate, and an angle bracket set. Various washers and nuts are used for the final assembly. Arrows point from the callout boxes to the corresponding parts in the diagram.

Shaft for bobbins	
2004841	safety brake shaft 95/147 Nm D.30 C.18

Washers for bobbins	
Ø101.6 x 3.6	1781024 steel washer 30,5 x 93 x 4
Ø102 x 2	1781056 steel washer 30,5 x 97 x 4
Ø108 x 4	1781057 steel washer 30,5 x 99 x 4
Ø133 x 4	1781025 steel washer 30,5 x 124 x 4
Ø133 x 2.5	2003920 steel washer 30,5 x 127 x 4

Safety brake	
2007929	safety brake 147 Nm - C.18
2007930	safety brake 147 Nm - C.18 - cable 5 m

Screws (not supplied)	
4	screws M6 x 20 DIN 912 Zn 8.8
4	nuts HU6 DIN 934
4	washers Ø 6,4 x Ø18 x 1,6 DIN 9021 Zn

Wall brackets (x2)	
9017172	angle bracket for plate 280 + screws
9017173	angle bracket for plate 330 + screws

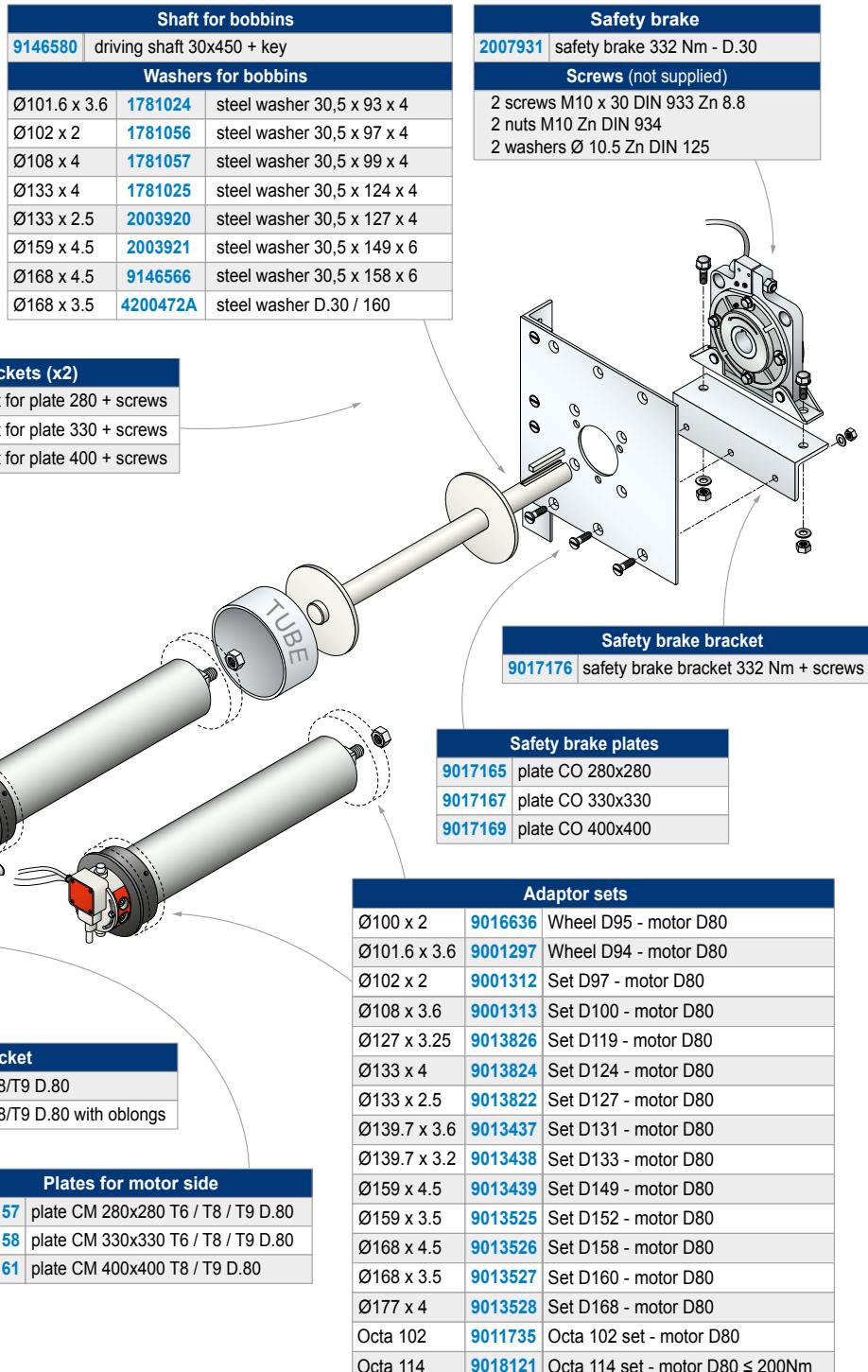
Safety brake plates	
9017165	plate CO 280x280
9017167	plate CO 330x330

Adaptor sets	
Ø100 x 2	9016636 Wheel D95 - motor D80
Ø101.6 x 3.6	9001297 Wheel D94 - motor D80
Ø102 x 2	9001312 Set D97 - motor D80
Ø108 x 3.6	9001313 Set D100 - motor D80
Ø127 x 3.25	9013826 Set D119 - motor D80
Ø133 x 4	9013824 Set D124 - motor D80
Ø133 x 2.5	9013822 Set D127 - motor D80
Ø139.7 x 3.6	9013437 Set D131 - motor D80
Ø139.7 x 3.2	9013438 Set D133 - motor D80
Ø159 x 4.5	9013439 Set D149 - motor D80
Ø159 x 3.5	9013525 Set D152 - motor D80
Ø168 x 4.5	9013526 Set D158 - motor D80
Ø168 x 3.5	9013527 Set D160 - motor D80
Ø177 x 4	9013528 Set D168 - motor D80
Octa 102	9011735 Octa 102 set - motor D80
Octa 114	9018121 Octa 114 set - motor D80 ≤ 200Nm

Plates for motor side	
9017157	plate CM 280x280 T6 / T8 / T9 D.80
9017158	plate CM 330x330 T6 / T8 / T9 D.80

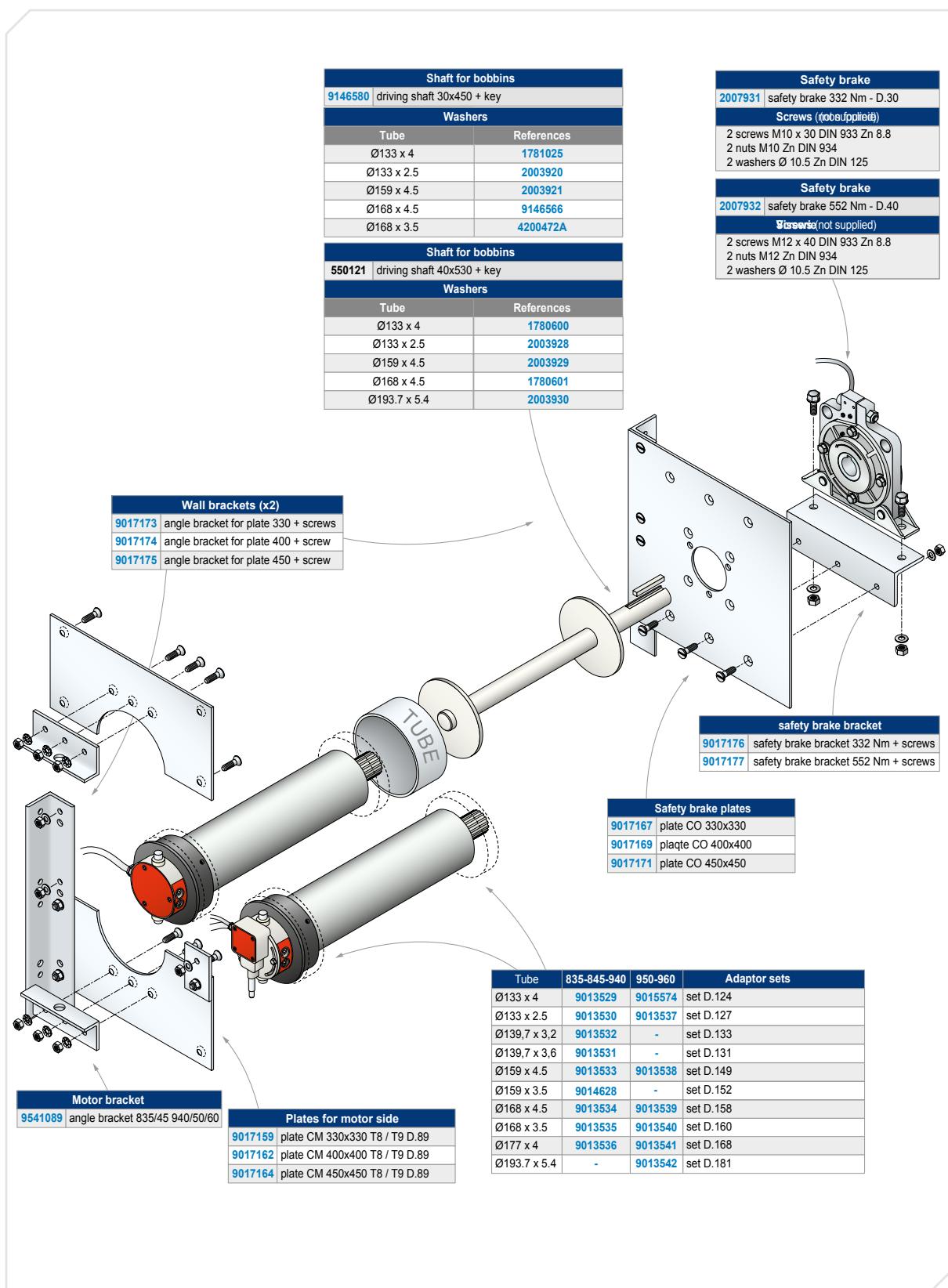
Motor bracket	
9001413	angle bracket set T8/T9 D.80
9015134	angle bracket set T8/T9 D.80 with oblongs

# Accessories for plate mounting for T8 (815,820,825,830) and T9 (930) motors and safety brake

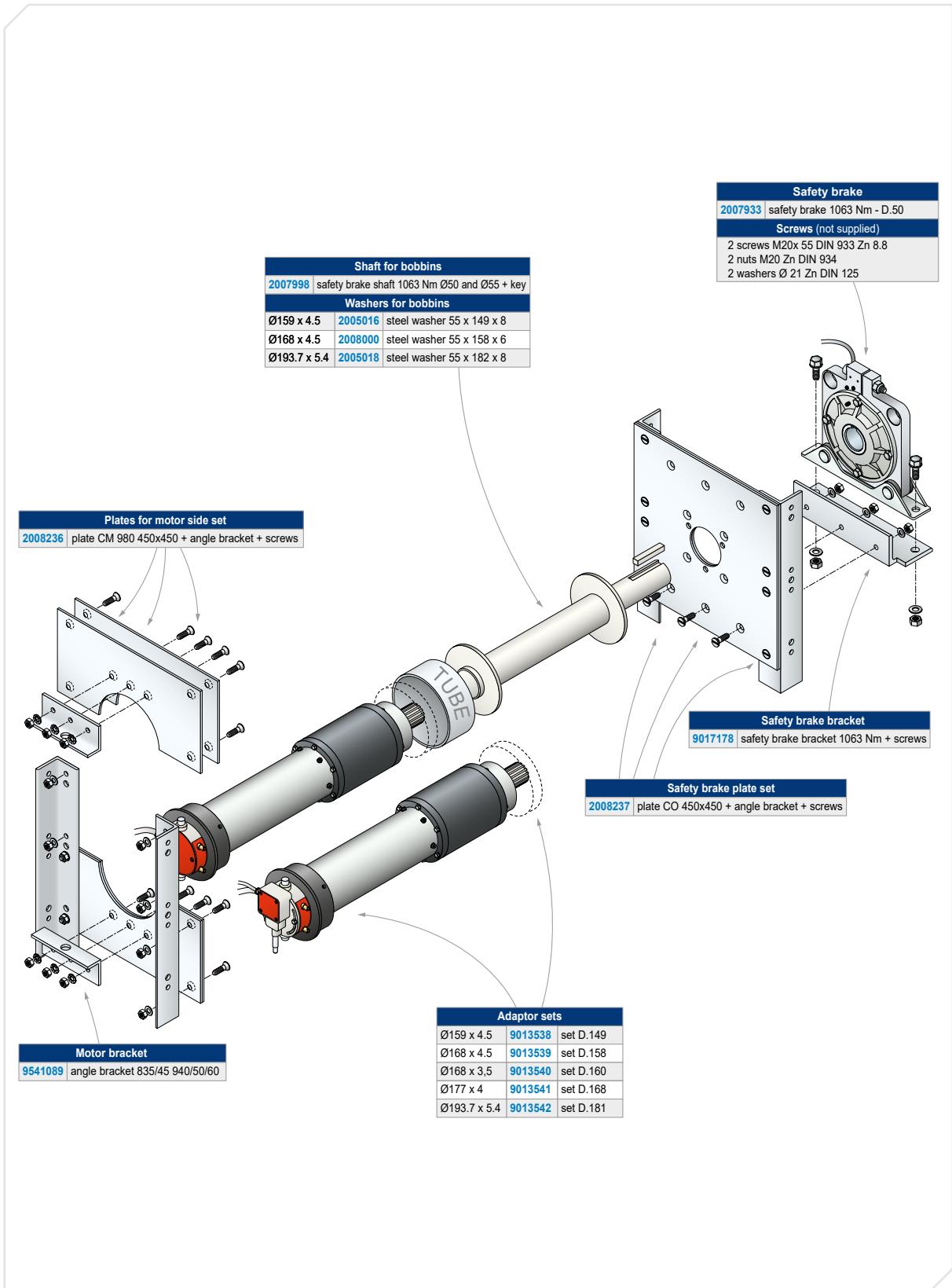




# Accessories for plate mounting for T8 (835,845) et T9 (940,950,960) motors and safety brake



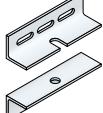
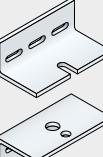
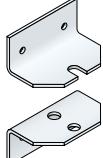
# Accessories for plate mounting for T9 (980) motor and safety brake





# Wall mounting accessories for T8/T8M & T9/T9M

## ANGLE BRACKET

Angle bracket	Motors	Description	Reference
	T8 (815, 820, 825, 830) et T9 (930)	Wall angle bracket kit T8/T9 Ø80mm	9001414
	T8M (815, 820, 825, 830) et T9M (930)	Wall angle bracket kit T8M/T9M Ø80mm	9541103
	T8M (835, 845) et T9M (940, 950, 960)	Wall angle bracket kit T8M/T9M Ø89mm	2270140

## Manual override accessories

### RING FOR HANDLE WITH HOOK, FOR DMI5 AND DMI6 VERTICAL MOUNTING

Ring	Description	Reference
	Ring, 63 mm length, 7 mm hexa drive shaft	9016332
	Ring, 165 mm length, 7 mm hexa drive shaft	9685136
	Ring, 325 mm length, 7 mm hexa drive shaft	9000848

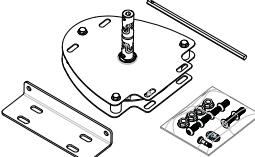
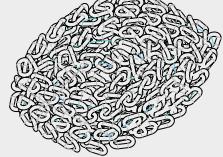
### RING FOR HANDLE WITH HOOK, FOR T8S DMI MOTORS VERTICAL MOUNTING

Ring	Description	Reference
	ZAMAK ring, 270 mm length, 7 mm hexa drive shaft	9018569

## RING FOR HANDLE WITH HOOK, FOR T8M AND T9M MOTORS VERTICAL MOUNTING

Ring	Description	Reference
	ZAMAK ring set Ø10mm + screws for T8M and T9M motors	9014877
	ZAMAK ring Ø10mm only, for T8M and T9M motors	2007042
	Ring set (ring + rod + sleeve) for T8M and T9M motors	9340020

## CHAIN MANUAL OVERRIDE FOR T8S DMI

Ring	Description	Reference
	Chain manual override kit <b>without chain</b>	9019458
	Chain for manual override by chain (10 meters)	9019460

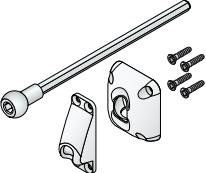
## CRANK HANDLE WITH HOOK - Ø14

Crank handle	Description	Color	Length	Reference	
				x1	x10
	Crank handle with hook, in steel	White lacquered	1.2 m	2006527	2006528
			1.5 m	2006531	2006532
			1.6 m	2006543	2006544
			2 m	2006549	2006550
			2.6 m	2006535	2006536
			3 m	2006537	2006538
		Grey lacquered	1.5 m	2006541	2006542

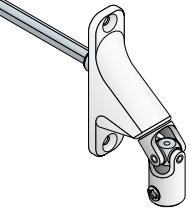


# Manual override accessories

## INVISIBLE JOINT FOR DMI5, DMI6 AND T8S DMI MOTORS - VERTICAL MOUNTING

Joint	Description	Reference
	Invisible joint set, white	9685142

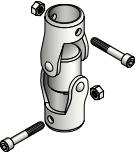
## UNIVERSAL JOINT FOR DMI5, DMI6 AND T8S DMI MOTORS - HORIZONTAL MOUNTING

Universal joint	Description	Reference
	Universal joint 90°, for Ø12 mm rod, 7 mm hexa drive shaft, white	2008066
	Universal joint 90°, for Ø12 mm rod, 6 mm square drive shaft, white	2008070
	Universal joint 90°, for Ø12 mm rod, 7 mm hexa drive shaft, grey	2008065
	Universal joint 90°, for Ø12 mm rod, 6 mm square drive shaft, grey	2008069

## CRANK HANDLE

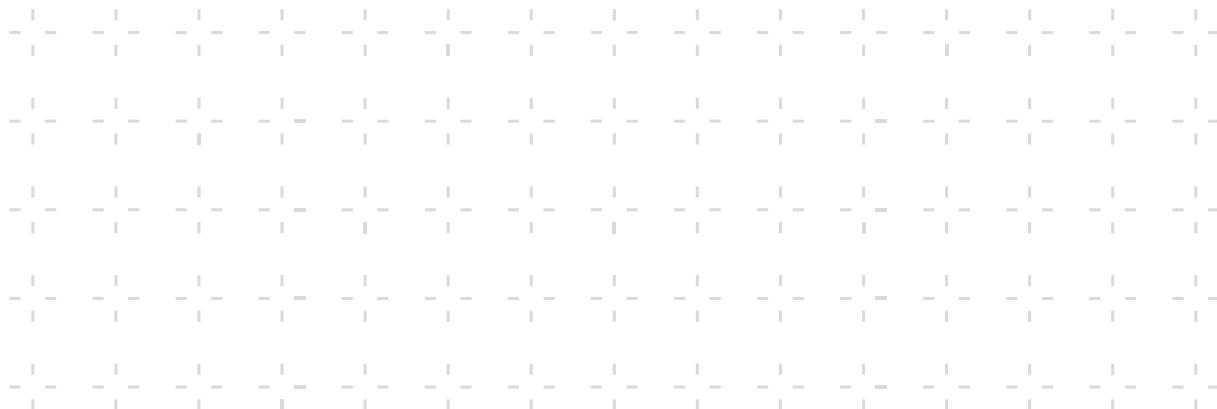
Crank handle	Description	Reference
	Crank handle for invisible joint or universal joint, white	2006637

## CARDAN JOINT, FOR T8M AND T9M MOTORS

Cardan joint	Description	Reference
	Steel cardan joint - Ø 10 mm and Ø 14 mm	2004155

# Accessories for motor settings

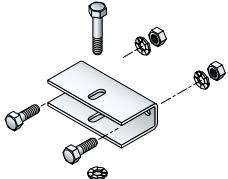
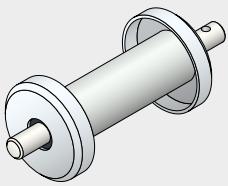
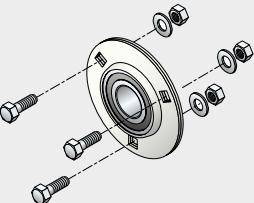
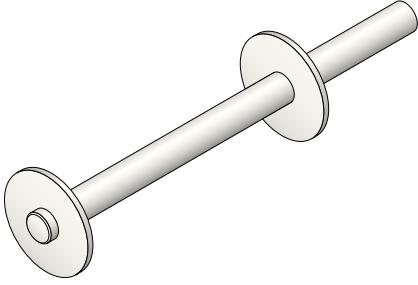
Components	Description	Reference
	20 flexible tools for end limit setting (214 mm length)	<a href="#">9011781</a>
	20 rigid tools for end limit setting (123 mm length)	<a href="#">9000987</a>



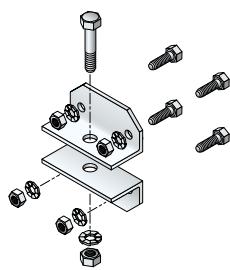
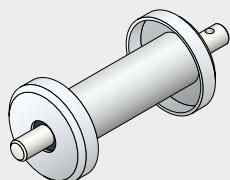
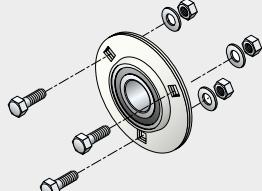
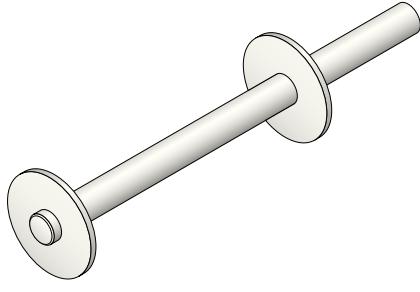


## Accessories

### ACCESSORIES FOR DMI6 - T8S/T8S DMI - T8 (815-820-825-830) AND T9 (930) MOTORS

Product	Description	Reference
 Bobbin bracket	Clamp bracket for shaft Ø20mm + screws	9017182
 Bobbins	Ø 101.6x3.6: Bobbin Ø94mm - shaft Ø20mm	9542008
	Ø 102x2: Bobbin Ø97mm - shaft Ø20mm	9542009
	Ø 133x4: Bobbin Ø124mm - shaft Ø20mm	9542012
	Ø 133x2.5: Bobbin Ø127mm - shaft Ø20mm	2003848
 Ø30mm bearing bracket	Ø30mm bearing bracket + screws	9017179
 Ø30mm end cap	Ø 133x4 : Bobbin C.O. 124x30	9542521
	Ø 133x2.5 : Bobbin C.O. 127x30	9542522
	Ø 159x4.5 : Bobbin C.O. 149x30	2004194

## ACCESSORIES FOR T8 (835-845) MOTORS AND T9 (940-950-960) MOTORS

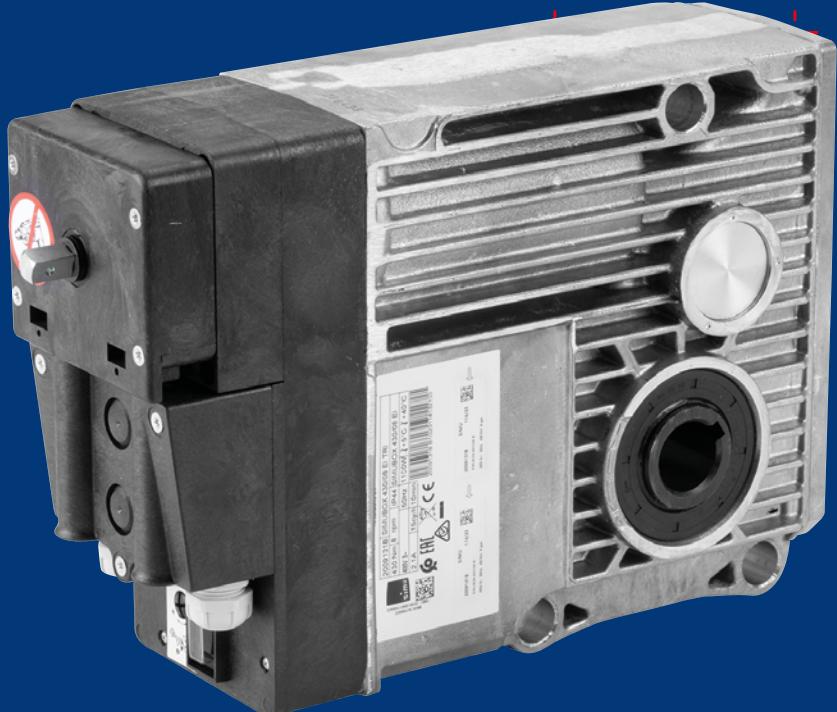
Product	Description	Reference
 <b>Bobbins bracket</b>	Angle bracket for shaft Ø35mm + screws	9017180
 <b>Bobbins</b>	Ø 133x2.5 : Bobbin Ø127mm - shaft Ø35mm	2003849
	Ø 168x4.5 : Bobbin Ø158mm - shaft Ø35mm	2003851
 <b>Ø30mm bearing bracket</b>	Ø30mm bearing bracket + screws	9017179
 <b>Ø30mm end cap</b>	Ø 133x4 : Bobbin C.O. 124x30	9542521
	Ø 133x2.5 : Bobbin C.O. 127x30	9542522
	Ø 159x4.5 : Bobbin C.O. 149x30	2004194



# 03. Side motors

## 03. Side motors

Selection charts for SIMUBOX & SIMUBOX SI	p 60
SIMUBOX motors for roller doors	p 64
SIMUBOX SI motors for roller shutter doors	p 70
SIMUBOX motors for sectional doors	p 76
Manual override accessories	p 79



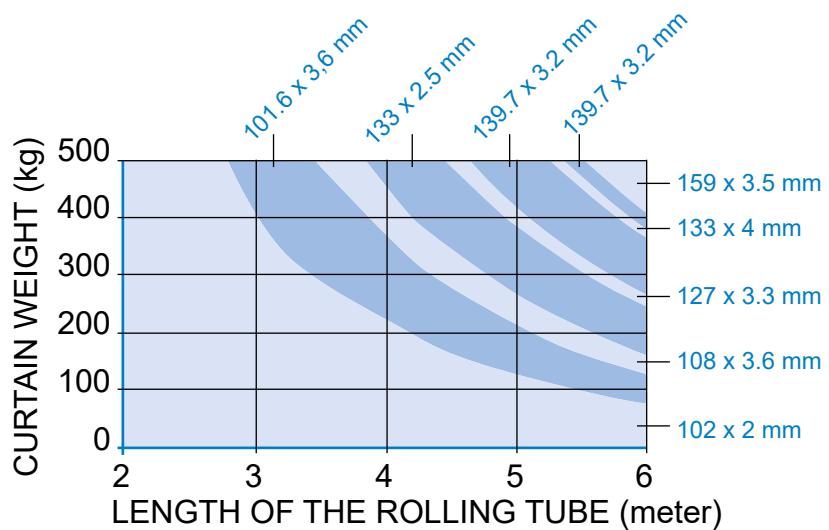


# Selection charts for rolling tube

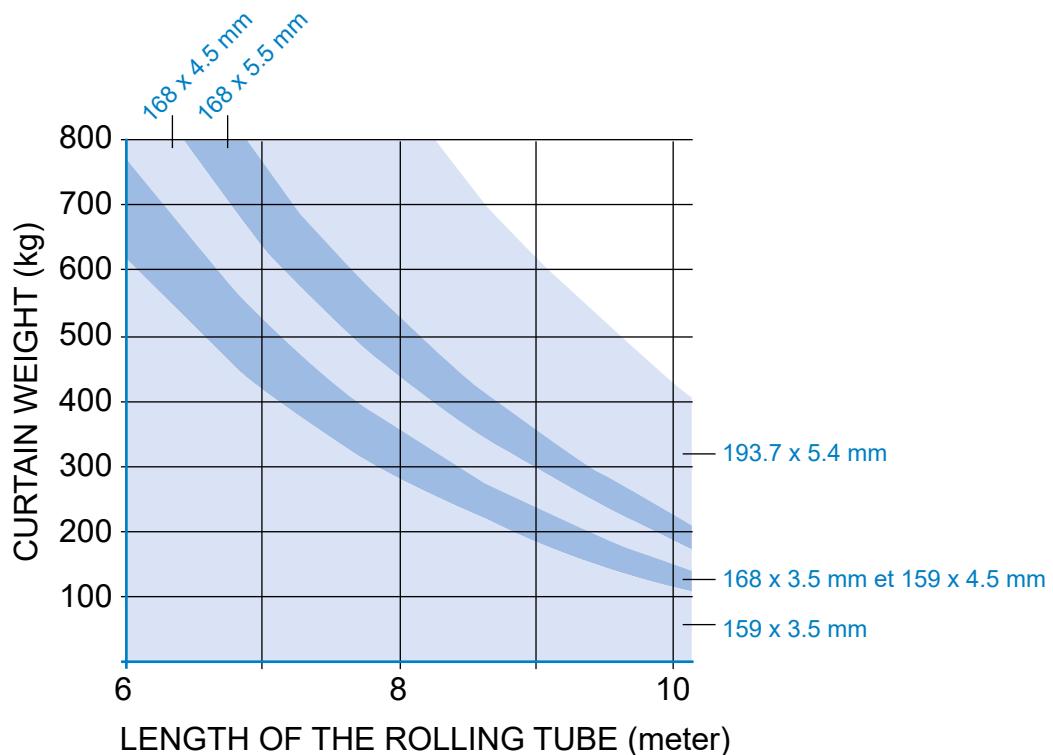
The diagrams below determine the type of rolling tube to be used depending on the characteristics of your closure: weight of the curtain and tube length.

## Admissible weight per type of tube

### Tube from 0 to 6 meters in length



### Tube from 6 to 10 meters in length



# SIMUBOX

## motor selection charts

### Selection charts and operational limits mentioned in this catalogue

...are given for information only and vary according to each installation's characteristics (more particularly: type of slats, friction, conditions of installation, variation in power supply voltage, torque variations due to kinematics of each grilles and metal curtains and to its spring strength).

The salesman's or manufacturer's responsibility cannot be called into question. Recommendations for the use of tubes require careful attention as well (see profiler's charts). Each manufacturer of grilles and metal curtains will have to test the products in order to determine his own selection charts.

For any special case, please consult us.

### The + SIMU

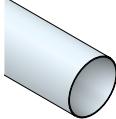
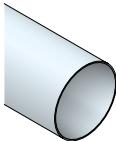
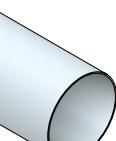
On request, we can also make for you personalized selection charts that meet the specific characteristics of your closures. You can send your requests to [service@simu.com](mailto:service@simu.com)

## SIMUBOX motor for roller shutter doors

The following chart shows a liftable curtain weight (kg) depending on the type of roller tube, the height of the door and the motor torque:

Ø of tube	Curtain height	Single-phase motors		Three-phase motors		
		200 Nm	250 Nm	220 Nm	300 Nm	430 Nm
 Ø 101.6 x 3.6 Ø 102 x 2	2 m	282 kg	392 kg	345 kg	471 kg	-
	2.5 m	275 kg	382 kg	336 kg	459 kg	-
	3 m	265 kg	368 kg	324 kg	441 kg	-
	3.5 m	258 kg	358 kg	315 kg	429 kg	-
	4 m	251 kg	348 kg	306 kg	418 kg	-
	4.5 m	244 kg	338 kg	298 kg	406 kg	-
	5 m	233 kg	324 kg	285 kg	388 kg	-
	5.5 m	222 kg	309 kg	272 kg	371 kg	-
	6 m	212 kg	294 kg	259 kg	353 kg	-
 Ø 108 x 3.6	2 m	267 kg	370 kg	326 kg	444 kg	-
	2.5 m	260 kg	361 kg	318 kg	433 kg	-
	3 m	250 kg	347 kg	306 kg	417 kg	-
	3.5 m	243 kg	338 kg	297 kg	406 kg	-
	4 m	237 kg	329 kg	289 kg	394 kg	-
	4.5 m	230 kg	319 kg	281 kg	383 kg	-
	5 m	220 kg	306 kg	269 kg	367 kg	-
	5.5 m	210 kg	292 kg	257 kg	350 kg	-
	6 m	200 kg	278 kg	244 kg	333 kg	-



Ø of tube	Curtain height	Single-phase motors		Three-phase motors		
		200 Nm	250 Nm	220 Nm	300 Nm	430 Nm
 Ø 127 x 3.25	2 m	227 kg	315 kg	277 kg	378 kg	542 kg
	2.5 m	221 kg	307 kg	270 kg	369 kg	528 kg
	3 m	213 kg	295 kg	260 kg	354 kg	508 kg
	3.5 m	207 kg	287 kg	253 kg	345 kg	494 kg
	4 m	201 kg	280 kg	246 kg	335 kg	481 kg
	4.5 m	196 kg	272 kg	239 kg	326 kg	467 kg
	5 m	187 kg	260 kg	229 kg	312 kg	447 kg
	5.5 m	179 kg	248 kg	218 kg	298 kg	427 kg
	6 m	170 kg	236 kg	208 kg	283 kg	406 kg
 Ø 133 x 2.5 Ø 133 x 4	2 m	217 kg	301 kg	265 kg	361 kg	517 kg
	2.5 m	211 kg	293 kg	258 kg	352 kg	504 kg
	3 m	203 kg	282 kg	248 kg	338 kg	485 kg
	3.5 m	198 kg	274 kg	242 kg	329 kg	472 kg
	4 m	192 kg	267 kg	235 kg	320 kg	459 kg
	4.5 m	187 kg	259 kg	228 kg	311 kg	446 kg
	5 m	179 kg	248 kg	218 kg	298 kg	427 kg
	5.5 m	171 kg	237 kg	208 kg	284 kg	407 kg
	6 m	162 kg	226 kg	198 kg	271 kg	388 kg
 Ø 159 x 3.5 Ø 159 x 4.5	2 m	181 kg	252 kg	221 kg	309 kg	433 kg
	2.5 m	177 kg	245 kg	216 kg	294 kg	422 kg
	3 m	170 kg	236 kg	208 kg	283 kg	406 kg
	3.5 m	165 kg	230 kg	202 kg	275 kg	395 kg
	4 m	161 kg	223 kg	196 kg	268 kg	384 kg
	4.5 m	156 kg	217 kg	191 kg	260 kg	373 kg
	5 m	149 kg	208 kg	183 kg	249 kg	357 kg
	5.5 m	143 kg	198 kg	174 kg	238 kg	341 kg
	6 m	136 kg	189 kg	166 kg	226 kg	325 kg
 Ø 168 x 3.5 Ø 168 x 4.5	2 m	171 kg	238 kg	210 kg	286 kg	410 kg
	2.5 m	167 kg	232 kg	204 kg	279 kg	399 kg
	3 m	161 kg	223 kg	196 kg	268 kg	384 kg
	3.5 m	156 kg	217 kg	191 kg	261 kg	374 kg
	4 m	152 kg	211 kg	186 kg	254 kg	363 kg
	4.5 m	148 kg	205 kg	181 kg	246 kg	353 kg
	5 m	141 kg	196 kg	173 kg	236 kg	338 kg
	5.5 m	135 kg	188 kg	165 kg	225 kg	323 kg
	6 m	129 kg	179 kg	157 kg	214 kg	307 kg

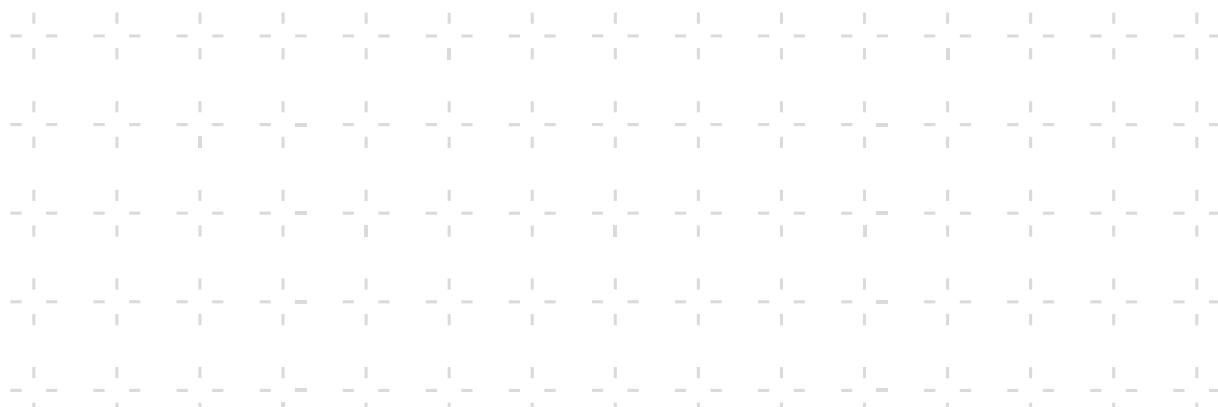
# SIMUBOX SI

## motor selection charts

### SIMUBOX SI motor for roller shutter doors

The following chart shows a liftable curtain weight (kg) depending on the type of roller tube and the motor torque:

Ø of tube	SIMUBOX SI 250.15	SIMUBOX SI 400.15	SIMUBOX SI 550.15	SIMUBOX SI 750.15	SIMUBOX SI 1000.10
	250 Nm	400 Nm	550 Nm	750 Nm	1000 Nm
Ø 108 x 3.6	312 kg	500 kg	-	-	-
Ø 133 x 4	261 kg	418 kg	-	-	-
Ø 159 x 4.5	223 kg	357 kg	491 kg	670 kg	-
Ø 177.8 x 5	202 kg	323 kg	444 kg	606 kg	808 kg
Ø 193.7 x 5.4	187 kg	299 kg	411 kg	561 kg	748 kg





# Side motors SIMUBOX

A COMPLETE OFFER  
FOR ALL KINDS OF INSTALLATIONS  
FOR ROLLING DOORS.



**COMPACT DIMENSIONS:** SIMUBOX can be installed even if the space is small at the end of the axis.

**SINGLE-PHASE SIMUBOX AND THREE-PHASE SIMUBOX EI (ELECTRONICS INTEGRATED)** for an easy and fast installation with only a keyswitch.

**THREE-PHASE SIMUBOX** for more complete installations with a control box.

**DOUBLE MANUAL OVERRIDE SYSTEM** (short crank and chain guide included).

**COMPLY WITH EUROPEAN AND INTERNATIONAL STANDARDS.**

## Range

### SINGLE-PHASE SIMUBOX

SINGLE-PHASE POWER SUPPLY: 230V / 50 Hz

Description	Torque	Power	Current	Speed	Operating time	Weight	References
							x 1
SIMUBOX 200/12 MONO	200 Nm	980 W	4.5 A	12 rpm	4 minutes	18 kg	2009128
SIMUBOX 250/08 MONO	250 Nm	1000 W	4.5 A	08 rpm	4 minutes	18 kg	2009129

SINGLE-PHASE POWER SUPPLY: 240V / 50Hz

Description	Torque	Power	Current	Speed	Operating time	Weight	References
							x 1
SIMUBOX 180/12 MONO	180 Nm	900 W	3.9 A	12 rpm	4 minutes	18 kg	2009375
SIMUBOX 250/08 MONO	250 Nm	950 W	4.1 A	08 rpm	4 minutes	18 kg	2009376

### THREE-PHASE SIMUBOX

THREE-PHASE POWER SUPPLY: 400V 3~ / 50 Hz

Description	Torque	Power	Current	Speed	Operating time	Weight	References
							x 1
SIMUBOX 220/12 TRI	220 Nm	850 W	1.6 A	12 rpm	10 minutes	17 kg	2009132
SIMUBOX 300/12 TRI	300 Nm	1050 W	1.9 A	12 rpm	10 minutes	17 kg	2009152
SIMUBOX 430/08 TRI	430 Nm	1100 W	2.1 A	08 rpm	10 minutes	18 kg	2009133

### THREE-PHASE SIMUBOX EI (ELECTRONICS INTEGRATED)

THREE-PHASE POWER SUPPLY: 400V 3~ / 50 Hz

Description	Torque	Power	Current	Speed	Operating time	Weight	References
							x 1
SIMUBOX 220/12 EI TRI	220 Nm	850 W	1.6 A	12 rpm	10 minutes	17 kg	2009130
SIMUBOX 300/12 EI TRI	300 Nm	1050 W	1.9 A	12 rpm	10 minutes	17 kg	2009388
SIMUBOX 430/08 EI TRI	430 Nm	1100 W	2.1 A	08 rpm	10 minutes	18 kg	2009131

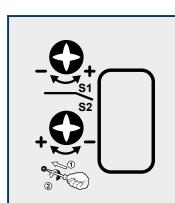
## Dimensions

### SINGLE-PHASE SIMUBOX

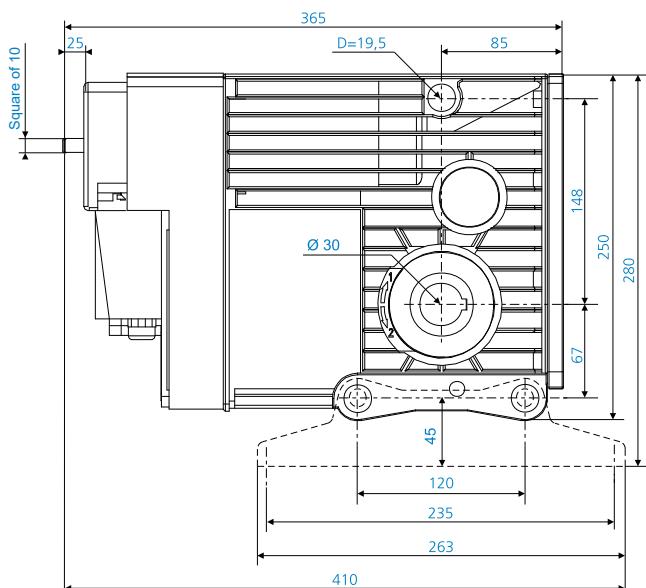
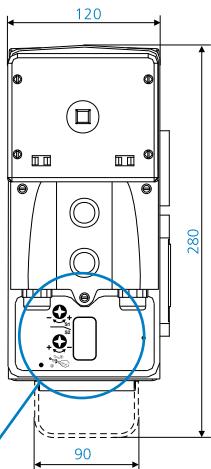
SIMUBOX 200/12  
SIMUBOX 250/08

### THREE-PHASE SIMUBOX

SIMUBOX 220/12  
SIMUBOX 300/12  
SIMUBOX 430/08



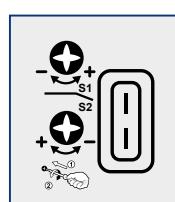
Without switch



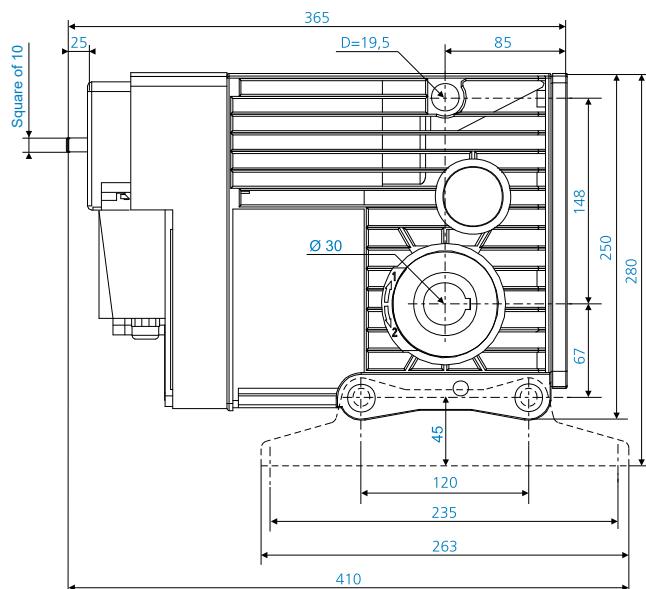
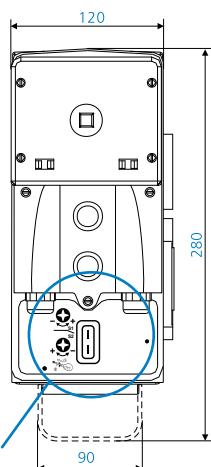
### THREE-PHASE SIMUBOX EI

#### (ELECTRONICS INTEGRATED)

SIMUBOX 220/12  
SIMUBOX 300/12  
SIMUBOX 430/08



With switch



SIDE MOTORS

## Technical characteristics

**PROGRESSIVE END-LIMITS WITH 4 SWITCHES** - 2 standard end-limits  
- 2 security end-limits

**2 ADDITIONAL SWITCHES** indicating high or low position of the curtain.

**END LIMIT CAPACITY** 25 rounds

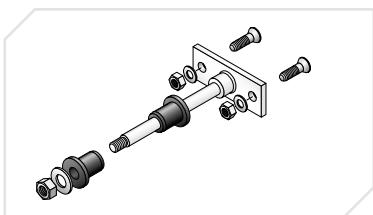
**PROTECTION INDEX** IP44

**AMBIENT WORKING TEMPERATURE** from -10°C to +40°C

**STANDARD** CE

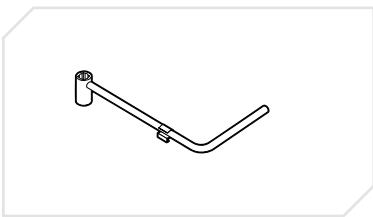


## Accessories

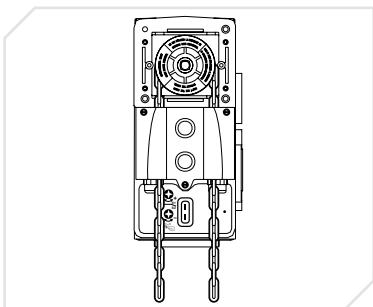


INSTALLATION WITH BOCK ROD

Ref. **9146521**



SHORT CRANK (included)



OVERRIDE BY CHAIN

- 10 meters chain

Ref. **9146501**



OVERRIDE WITH LONG CRANK

- Ring

Ref. **9000907**

- Crank handle with hook



## Compatibility with unstable wired control

### TO KNOW

SINGLE-PHASE SIMUBOX AND THREE-PHASE SIMUBOX EI have been made to be exclusively controlled by unstable key switches offered in the SIMU catalogue.



Universal key switch  
in unstable mode  
(with or without branding)



Unstable key switch



Unstable waterproof  
key switch



Waterproof rotary  
push button

### References

Description	Reference
	x 1
Universal key switch with branding	2004964
Universal key switch without branding	2008332
Unstable key switch	2001548
Unstable waterproof key switch	2006752
Waterproof rotary push button	2006754

### TO KNOW

THREE-PHASE SIMUBOX has been made to be exclusively controlled by SD510 control box.



SD510 box control

### References

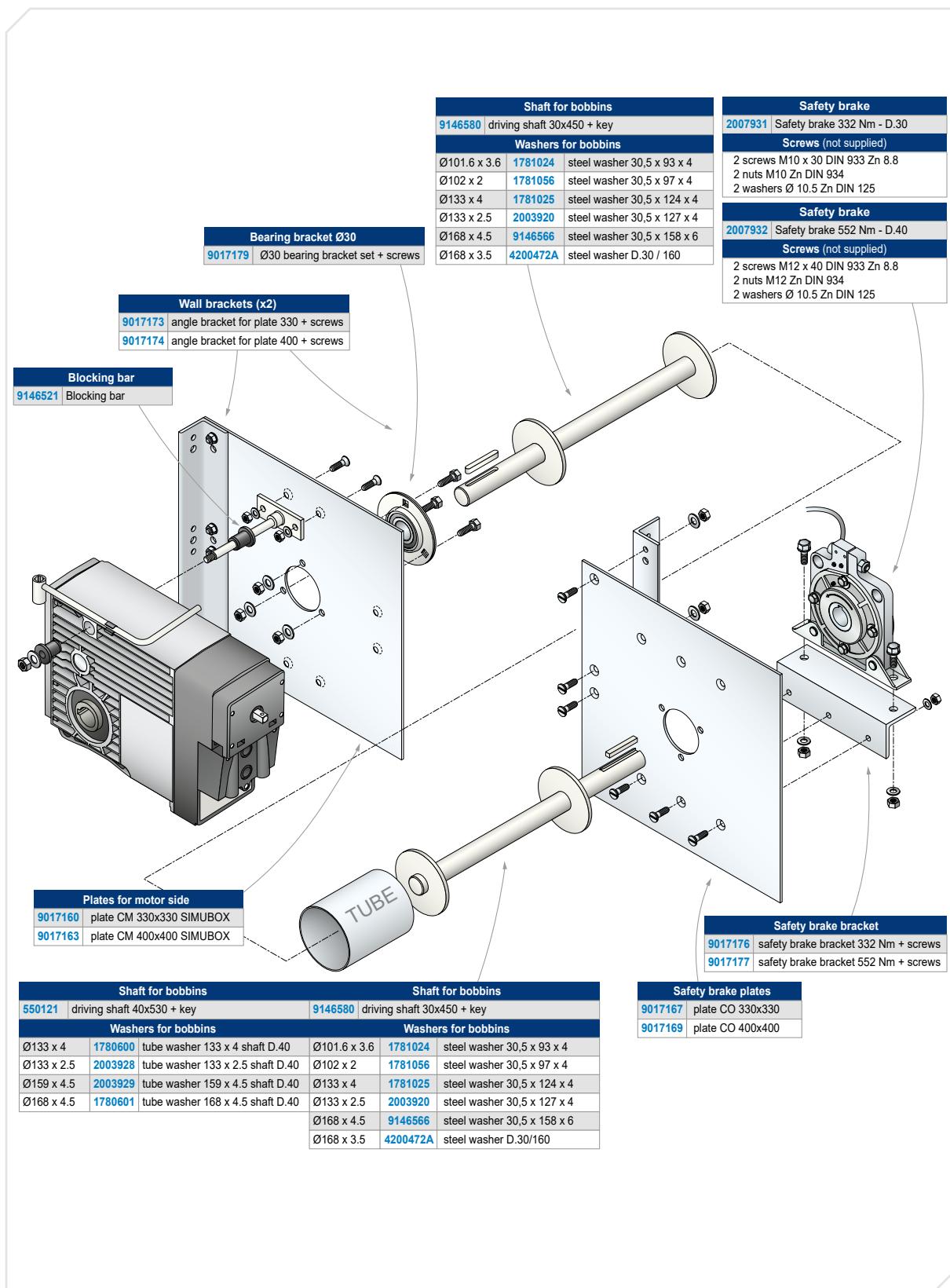
Description	Reference
	x 1
SD510	2008779



For any other key switch or control box, please contact your SIMU interlocutor.

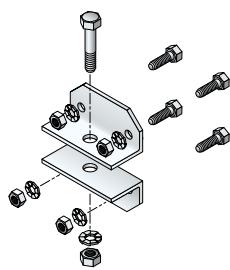
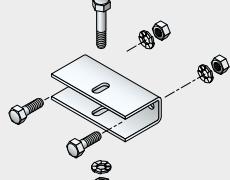
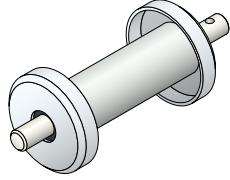
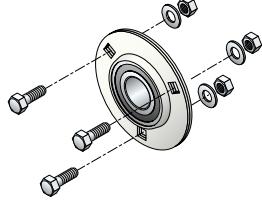
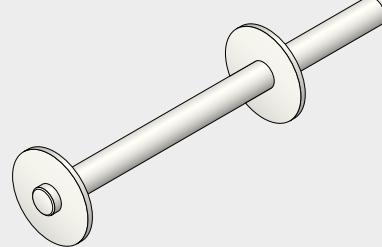
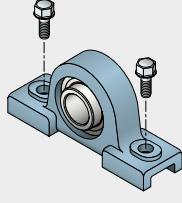


# Accessories for plate mounting for SIMUBOX & SIMUBOX EI motors and safety brake



# Accessories

## ACCESSORIES FOR DMI6 - T8S/T8S DMI - T8 (815-820-825-830) ET T9 (930) MOTORS

Product	Description	Reference
 Bobbin bracket	Angle bracket for shaft Ø35mm + screws	9017180
 Bobbin bracket	Clamp bracket for shaft Ø20mm + screws	9017182
 Bobbin	Ø101.6 x 3.6 : Bobbin Ø94	9542008
	Ø102 x 2 : Bobbin C.O. Ø97 - shaft Ø20	9542009
	Ø133 x 4 : Bobbin C.O. Ø124 - shaft Ø20	9542012
	Ø133 x 2.5 : Bobbin C.O. Ø127 - shaft Ø20	2003848
	Ø133 x 2.5 : Bobbin C.O. Ø127 - shaft Ø35	2003849
	Ø168 x 4.5 : Bobbin C.O. Ø158 - shaft Ø35	2003851
 Ø30mm bearing bracket	Ø30 bearing bracket + screws	9017179
 Ø30mm end cap	Ø 133x4 : Bobbin C.O. 124x30	9542521
	Ø 133x2.5 : Bobbin C.O. 127x30	9542522
 Bearing Ø30mm	Bearing Ø30mm	1781019

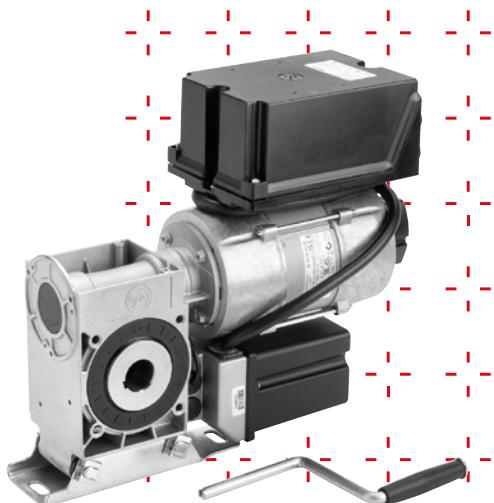
SIDE  
MOTORS



# SIMUBOX SI motors three-phase with built-in safety brake for rolling doors

**TORQUE RANGE FROM 250 TO 1000 NM**  
**...to lift doors over 800kg!**

**BUILT-IN SAFETY BRAKE**  
**...with automatic operation in case of wheel  
or worm screw failure.**



Fully equipped motor!  
Integrated and pre-wired removable control box.



All SIMUBOX SI motors are supplied with short crank for manual override.

## Range

THREE-PHASE POWER SUPPLY 230/400V - 50 HZ

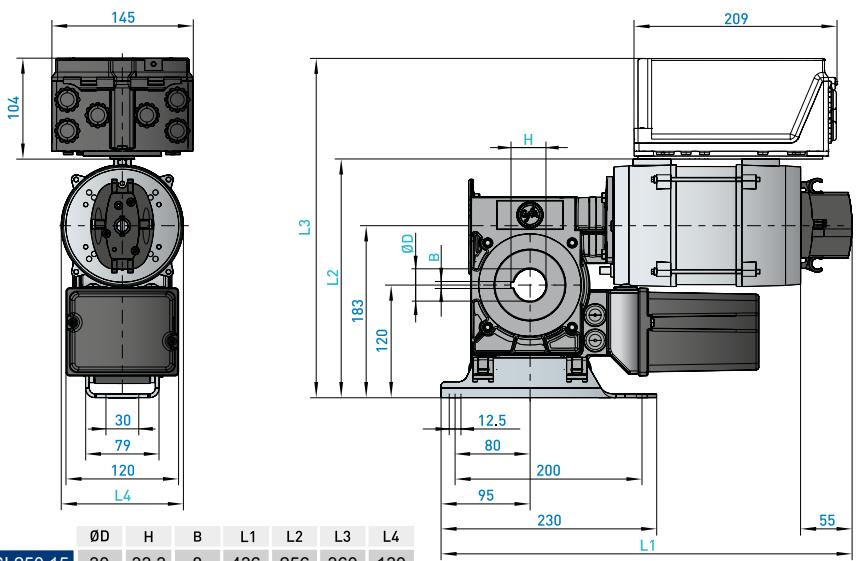
Description	Torque	Speed	Power	Current	Stop torque of the safety brake	Ø hollow shaft	Weight	Reference
SIMUBOX SI 250.15	250 Nm (200 Nm*)	15 rpm	550 W	2.3 A	510 Nm	30 mm	19 kg	2004885
SIMUBOX SI 400.15	400 Nm (320 Nm*)	15 rpm	850 W	2.5 A	760 Nm	40 mm	23 kg	2004886
SIMUBOX SI 550.15	550 Nm (390 Nm*)	15 rpm	1100 W	4.2 A	1100 Nm	40 mm	30 kg	2004887
SIMUBOX SI 750.15	750 Nm (580 Nm*)	15 rpm	1100 W	4.1 A	2800 Nm	55 mm	42 kg	2004888
SIMUBOX SI 1000.10	1000 Nm (750 Nm*)	10 rpm	1300 W	6.5 A	2800 Nm	55 mm	46 kg	2004889

\* According to EN 60335-2-103

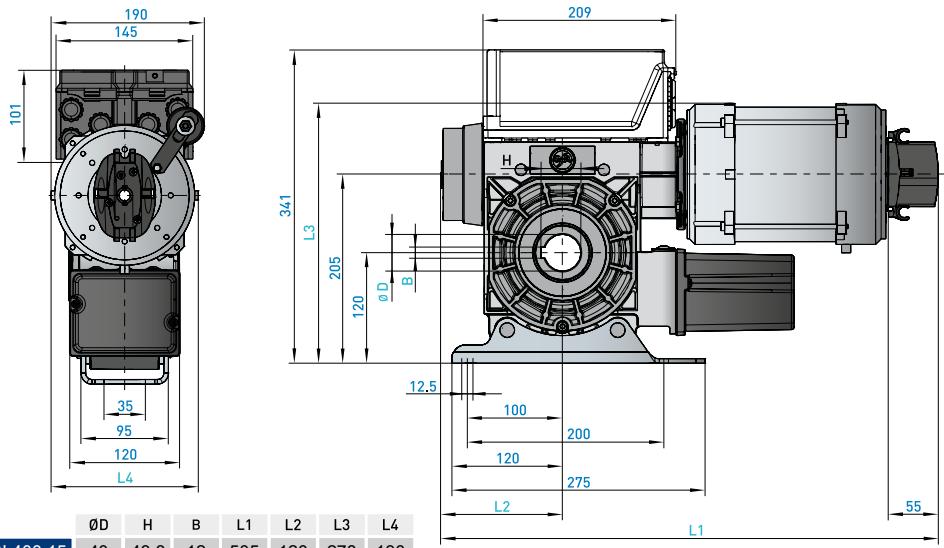


## Dimensions

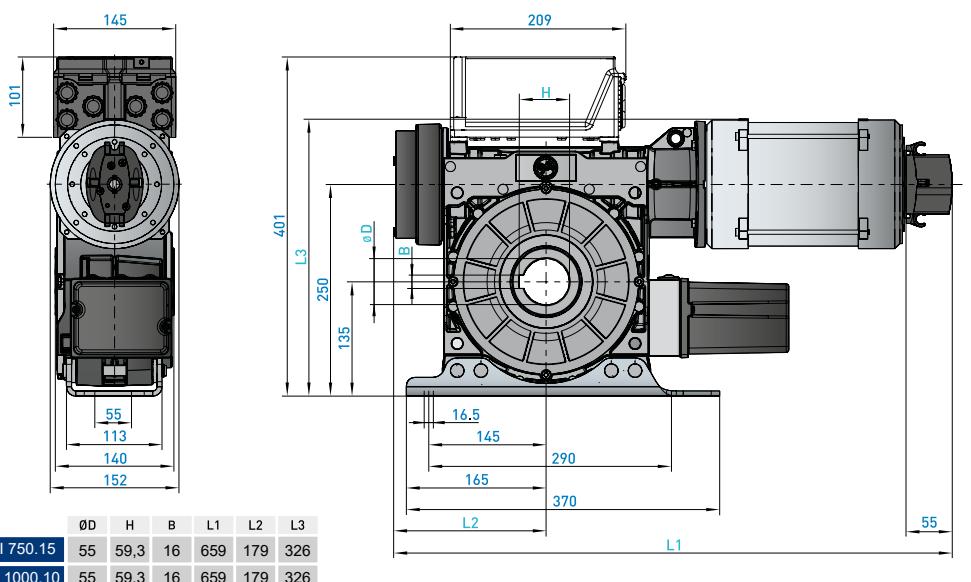
**250 Nm**



**400 Nm et  
550 Nm**



**750 Nm et  
1000 Nm**



SIDE  
MOTORS



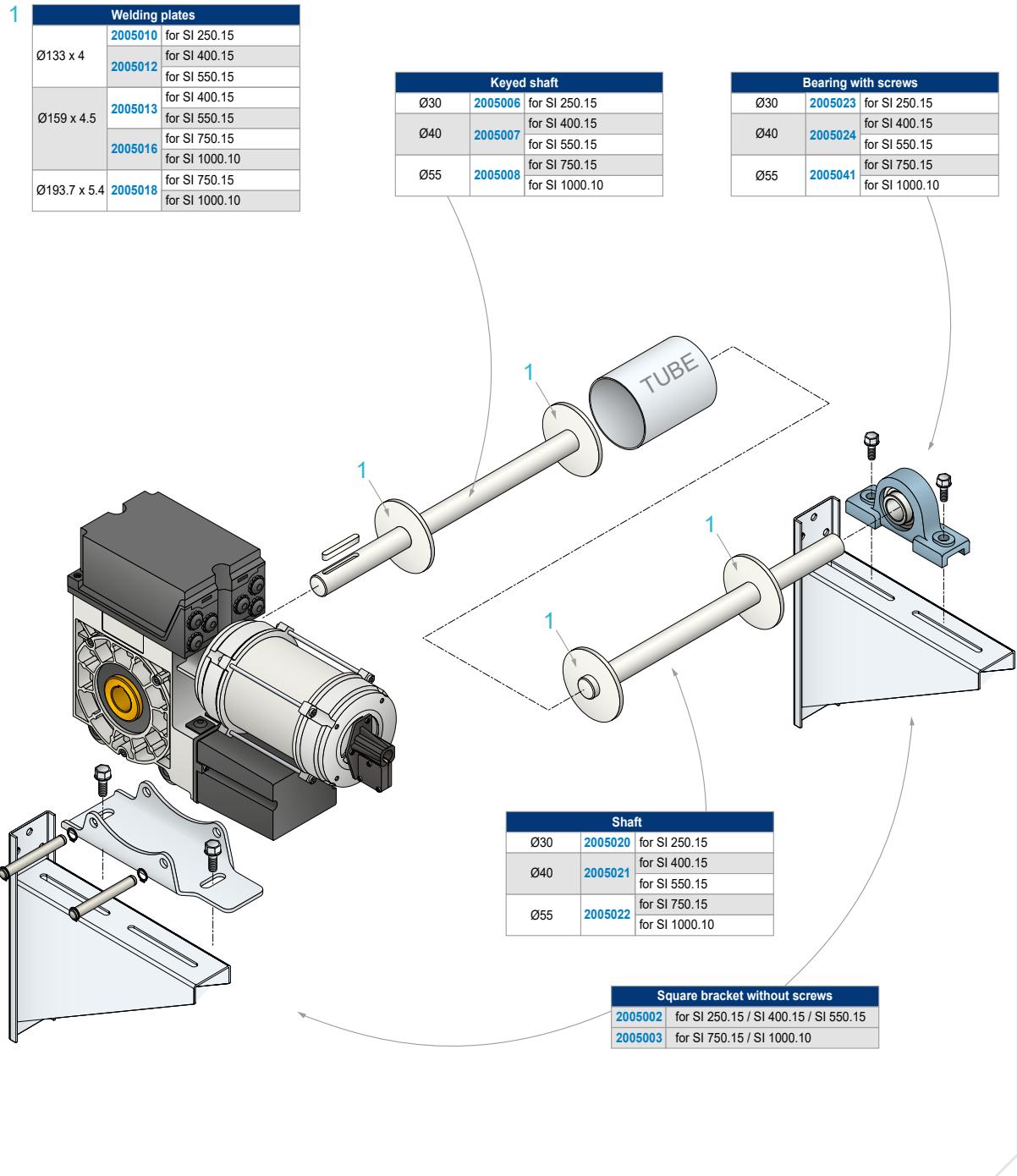
## Technical characteristics

POWER SUPPLY	3 x 400V - 50 Hz
PROTECTION INDEX OF THE CONTROL BOX	IP 54
END LIMIT CAPACITY	20 rounds
PROGRESSIVE END-LIMITS WITH 6 SWITCHES	- 2 standard end-limits - 2 security end-limits - 2 additional end-limits
CONTROL BOX POWER SUPPLY	24V AC - 50/60Hz
CABLE	0.8 m length, supplied with the motor
PUSH BUTTON	OPEN - CLOSE - STOP
MAXIMUM NUMBER OF CYCLES	SIMUBOX SI 250 = 10 per hour SIMUBOX SI 400 = 9 per hour SIMUBOX SI 550 = 9 per hour SIMUBOX SI 750 = 9 per hour SIMUBOX SI 1000 = 7 per hour

## Control box

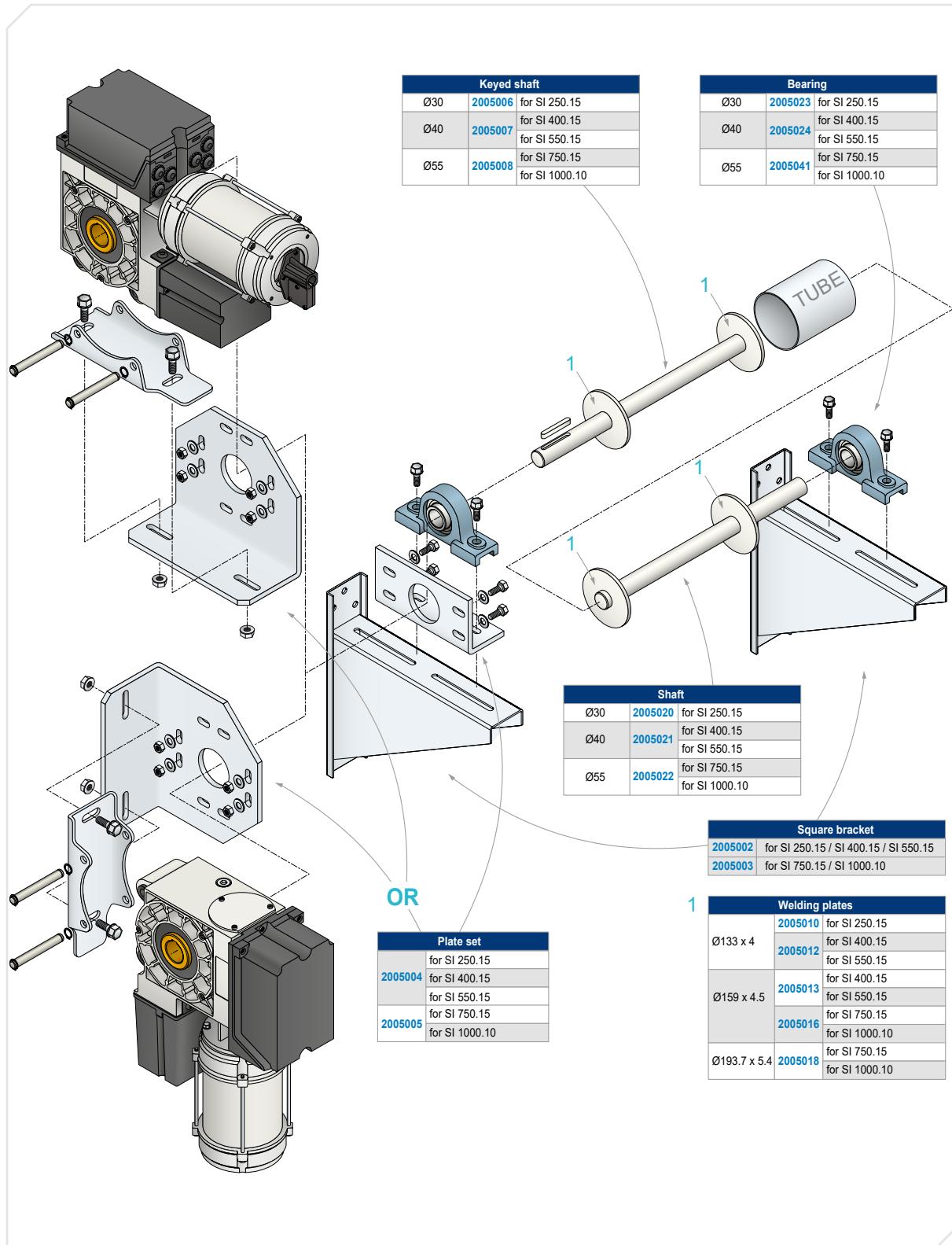
Type of control	Wired control
Operating mode	Deadman mode or mixte
Control box	
Control points	 Key switch or wired switch

# Accessories for horizontal mounting on square bracket





# Accessories for horizontal or vertical mounting on square bracket and plate





# NOTES

SIDE MOTORS



## SIMUBOX motors for sectional doors



**COMPACT DIMENSIONS:** SIMUBOX can be installed even if the space is small at the end of the axis.

**SINGLE-PHASE SIMUBOX & THREE-PHASE SIMUBOX EI (ELECTRONICS INTEGRATED)** for an easy and fast installation with only a keyswitch.

**THREE-PHASE SIMUBOX** for more complete installations with a control box.

**TRIPLE MANUAL OVERRIDE SYSTEM** (short crank, chain guide and declutching included).

**A LEVER POSITIONED BEHIND THE MOTOR** provides a **QUICK DECLUTCHING** by releasing the door which is balanced by springs and allows a manual operation in case of power failure.

**COMPLY WITH EUROPEAN AND INTERNATIONAL STANDARDS.**

### Range

#### SINGLE-PHASE SIMUBOX

SINGLE-PHASE POWER SUPPLY: 230V / 50 Hz

Description	Torque	Speed	Power	Current	Operating time	Weight	Reference
							x 1
SIMUBOX 80/25 MONO	80 Nm	25 rpm	940 W	4.5 A	4 min.	16.7 kg	2009134

#### THREE-PHASE SIMUBOX

THREE-PHASE POWER SUPPLY: 400V 3~ / 50 Hz

Description	Torque	Speed	Power	Current	Operating time	Weight	Reference
							x 1
SIMUBOX 120/25 TRI	120 Nm	25 rpm	1000 W	1.9 A	10 min.	15.9 kg	2009136

#### THREE-PHASE SIMUBOX EI (ELECTRONICS INTEGRATED)

THREE-PHASE POWER SUPPLY: 400V 3~ / 50 Hz

Description	Torque	Speed	Power	Current	Operating time	Weight	Reference
							x 1
SIMUBOX 120/25 EI TRI	120 Nm	25 rpm	1000 W	1.9 A	10 min.	16.4 kg	2009135

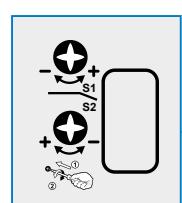
## Dimensions

### SINGLE-PHASE SIMUBOX

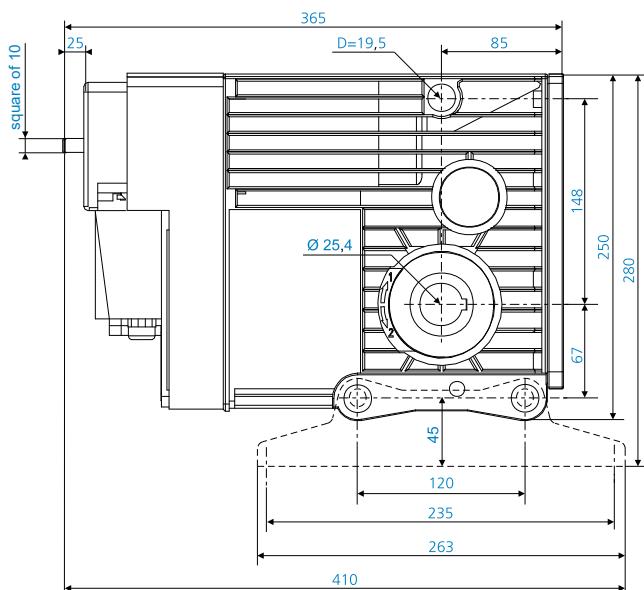
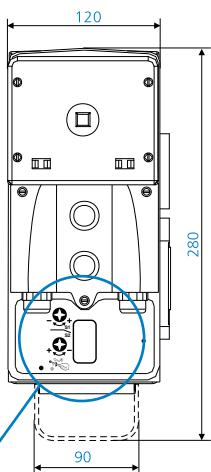
SIMUBOX 80/25

### THREE-PHASE SIMUBOX

SIMUBOX 120/25

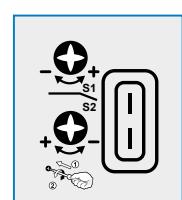


WITHOUT SWITCH

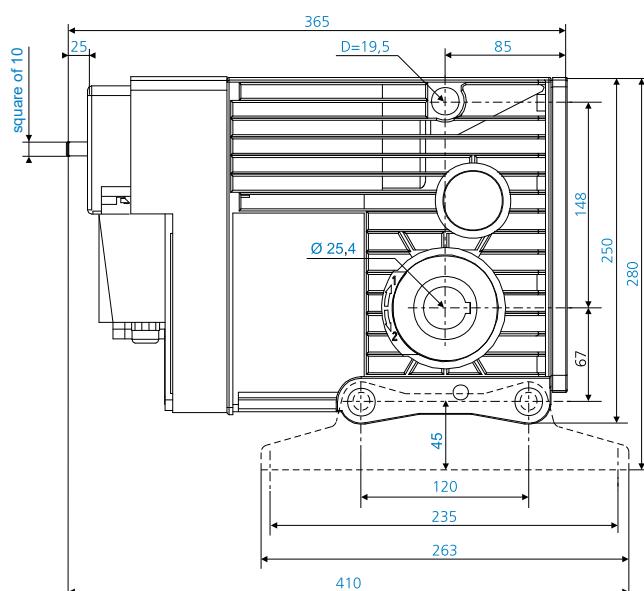
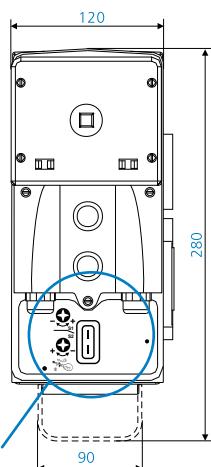


### THREE-PHASE SIMUBOX EI

(ELECTRONICS INTEGRATED)  
SIMUBOX 120/25



WITH SWITCH



SIDE MOTORS

## Technical characteristics

**PROGRESSIVE END-LIMITS WITH 4 SWITCHES** - 2 standard end-limits  
- 2 security end-limits

**2 ADDITIONAL SWITCHES** Indicating high or low position of the curtain.

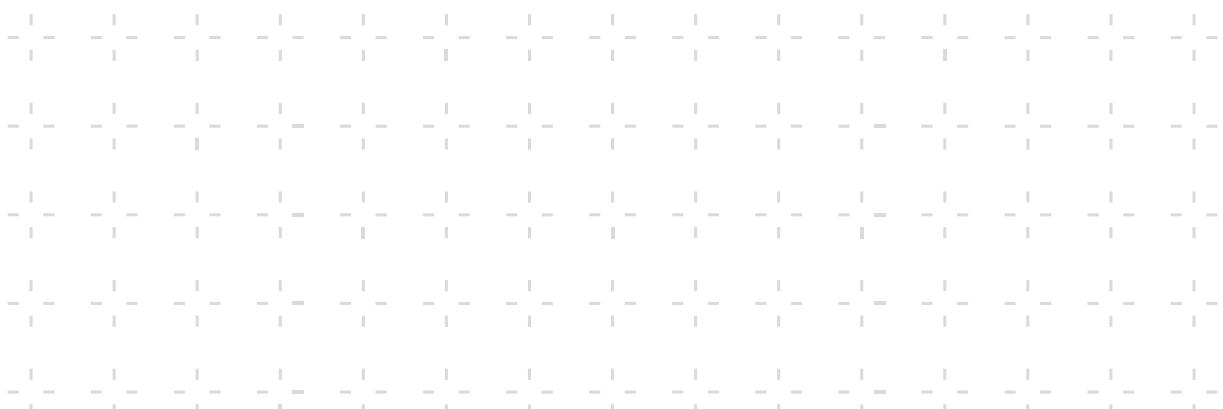
**END LIMIT CAPACITY** 25 rounds

**PROTECTION INDEX** IP 44



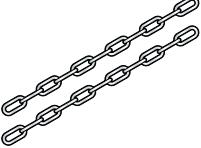
## Recommended types of control

TYPE OF CONTROL	WIRED CONTROL WITHOUT SAFETY ACCESSORY		WIRED OR RADIO CONTROL
Operating mode	Maintained push		Automatic, sequential, 3-buttons or radio
Type of motor	Single phase SIMUBOX	Three-phase SIMUBOX EI with integrated electronics	Three-phase SIMUBOX
Control boxes	Not required	Integrated electronic control	 SD510 box + HZ/RTS standard receiver
Control points	 Key switch or wired switch		 Key switch or wired switch    Remote controls & radio transmitters
Safety accessories	Not required		 Safety edge, photocell barrier & signalling light



# Manual override accessories

## MANUAL OVERRIDE BY CHAIN FOR SIMUBOX - ROLLER SHUTTER DOORS

Product	Description	Reference
	Chain (10 metres) - Ajustable lenght	9146501

## MANUAL OVERRIDE BY CHAIN FOR SIMUBOX SI - ROLLER SHUTTER DOORS

Product	Description	Reference
	Chain kit (4 metres)	9012736

SIDE  
MOTORS



# Manual override accessories

## MANUAL OVERRIDE BY LONG CRANK FOR SIMUBOX ROLLER SHUTTERS OR SECTIONAL DOORS

Product	Description	Reference
	Ring	9000907

Crank handle	Description	Color	Length	Reference	
				x1	x10
	Crank handle with hook, in steel	White lacquered	1.2 m	2006527	2006528
			1.5 m	2006531	2006532
			1.6 m	2006543	2006544
			2 m	2006549	2006550
			2.6 m	2006535	2006536
			3 m	2006537	2006538
		Grey lacquered	1.5 m	2006541	2006542





# NOTES

SIDE MOTORS



A photograph of a modern industrial building with large grey rolling shutters. A street lamp stands in front of the building. A white dashed grid pattern is overlaid on the top left corner of the image.

## 04. Control systems & safety accessories

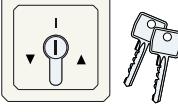
## 04. **Control systems & safety accessories**

Controls recommended by SIMU	p 84	+	+	+	+	+
Control boxes	p 86	+	+	+	+	+
Radio controls	p 92	+	+	+	+	+
Synthesis of the range	p 96	+	+	+	+	+
Wired direct controls	p 100	+	+	+	+	+
Safety accessories	p 105	+	+	+	+	+





# Controls recommended by SIMU

Garage doors					
MOTORS	DMI5 - DMI6	T6 - DMI6	CENTRIS	T8 - T8M	T8S-T8S DMI
CONTROL BY MAINTAINED PUSH, WITHOUT SAFETY ACCESSORY	—		 3 positions instable switch		
CONTROL BY IMPULSE, WITH SAFETY ACCESSORIES IN AUTOMATIC OR RADIO MODE	 SD100 Hz control board			 SD100 Hz control board	

## Grilles and metal shutters

T9 - T9M	SIMUBOX single-phase	SIMUBOX three-phase	SIMUBOX EI	SIMUBOX SI
SD350 box + 3 positions instable switch	3 positions instable switch	SD350 box + 3 positions instable switch	3 positions instable switch	Control box delivered with the motor
SD510 box	—	SD510 box	—	



# Radio control board SD100 Hz

RADIO CONTROL BOARD  
FOR INDUSTRIAL CLOSURES.

- **COMPATIBLE WITH SINGLE-PHASE MOTORS:** the radio control board SD100 Hz can be used to control single-phase SIMU motors not exceeding 1100W.
- **INDISPENSABLE ACCESSORIES FOR USER SAFETY:** a safety edge (optical or resistive), 2 sets of photocells, an orange flash light and/or a area lighting.
- **A SAFE WIRING:** 230V area clearly separated from 24V, disconnectable terminals, and each input is clearly identified.
- **LESS THAN 2 MINUTES TO SET:** 4 pre-set parameters (working mode, auxiliary output, safety edge and photocells).
- **COMPATIBLE WITH HZ CONTROL POINTS:** SD100 Hz can be controlled from TSA Hz or from HZ 2C keypad.



Description	Reference
	x 1
SD100 Hz	2009612

## Technical characteristics

### GENERAL CHARACTERISTICS

POWER SUPPLY	220-230 VAC - 50/60 Hz
MAXIMUM MOTOR OUTPUT	1100 W - 230 VAC
MOTOR SAFETY FUSE	5 AT - 250 V
OPERATING CLIMATE CONDITIONS	- 20° C / + 60° C - IP 44
RADIO FREQUENCY	433.42 MHz, < 10 mW
NUMBER OF CHANNELS THAT CAN BE MEMORISED	40
ELECTRICAL INSULATION	Category 1
PROGRAMMING INTERFACE	4 buttons - 10 indicator lights

### CONNECTIONS

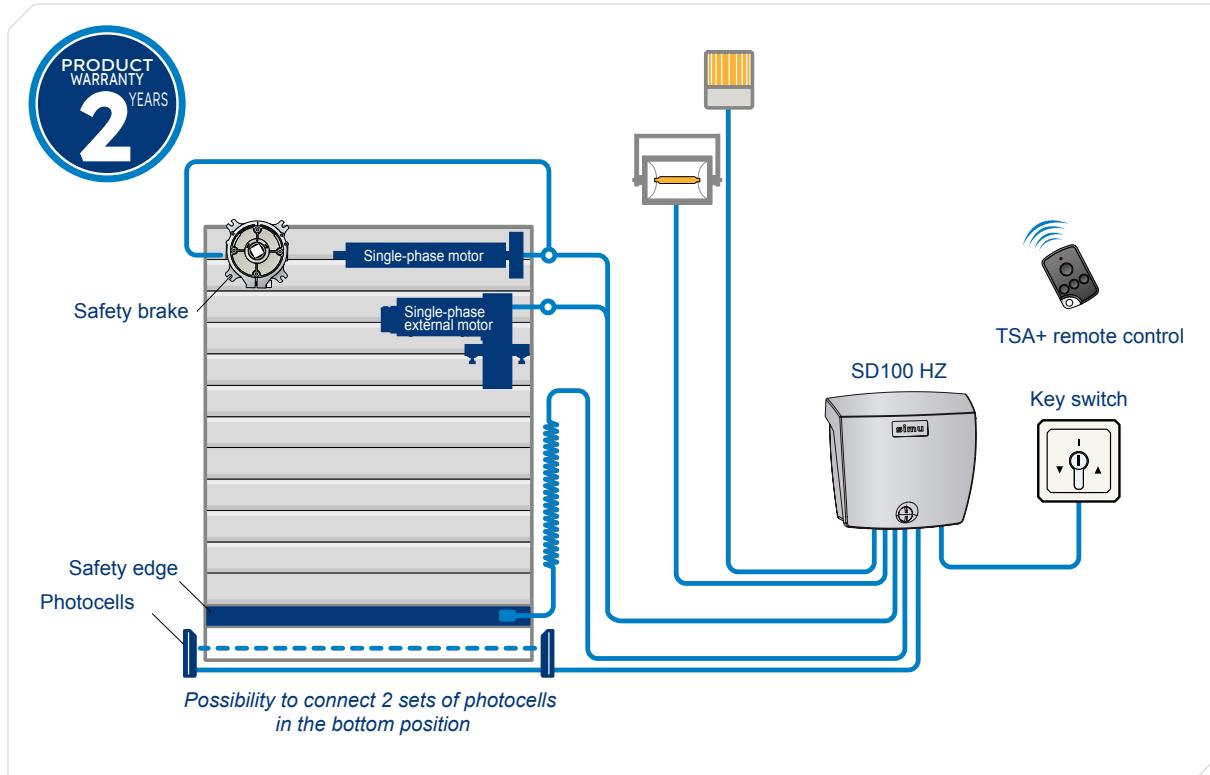
PROGRAMMABLE SAFETY INPUTS	- Dry contact: NC - X/RX photoelectric cells - Reflex cell
WIRED CONTROL INPUT	Dry contact: NO
AUXILIARY OUTPUT	Programmable orange light or remote lighting Orange light: 230 Vac auto-flashing Offset lighting: Dry contact // Max. 230 V - 500 W - either 5 fluocompact or LED lights - or 2 power supplies for low-voltage LEDs - or 1 halogen light, max. 500 W
ACCESSORIES POWER SUPPLY OUTPUT	24 Vdc - 200 mA
SAFETY EDGE OUTPUT	Optical wired or resistive wired 1.2 k Ω / 8.2 k Ω

### OPERATION

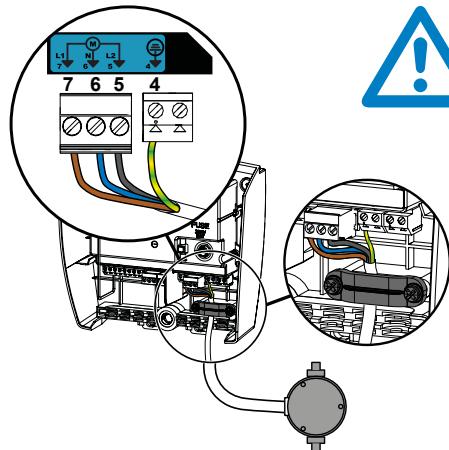
FORCED OPERATING MODE	By pressing the "+" and "-" buttons in motor setting mode
INDEPENDENT REMOTE LIGHTING CONTROL	Yes
LIGHTING TIME DELAY (AFTER MOVEMENT)	60 seconds
AUTOMATIC CLOSING MODE	Yes
ORANGE LIGHT WARNING	2 seconds

## Installation

Operating mode: pulse, automatic or automatic with cells activation.



### MOTOR POWER SUPPLY



## Recommended radio control points



Radio remote control  
TSA+ (4 channels)



HZ wall transmitter  
sequential (3 channels)



HZ 2C keypad  
(2 channels)



# Control board SD350

ESSENTIAL TO CONTROL  
THREE-PHASE MOTORS.

- **COMPATIBLE WITH THREE-PHASE MOTORS:** SD350 controls industrial rolling doors. It can be associated with all three-phase SIMU motors: T9 and SIMUBOX.
- **TO GO TO THE ESSENTIAL:** only connect a safety brake and control the door in maintained pressure mode or mixed mode (if the installation allows it).
- **A FAST INSTALLATION:** clearly identified connections.
- **USEFUL TIP:** write the installation date and stick the motor removable sticker inside SD350 in order to make a quick identification in case of after sales service.



Description	Reference
	x 1
SD350	2009611

## Technical characteristics

POWER SUPPLY Three-phase 230V 3~ / 50Hz  
Three-phase 400V 3N~ / 50Hz  
Three-phase 220V 3~ / 60Hz

MOTOR MAXIMUM POWER 1300 W

OPERATING TEMPERATURE from +5°C to +40°C

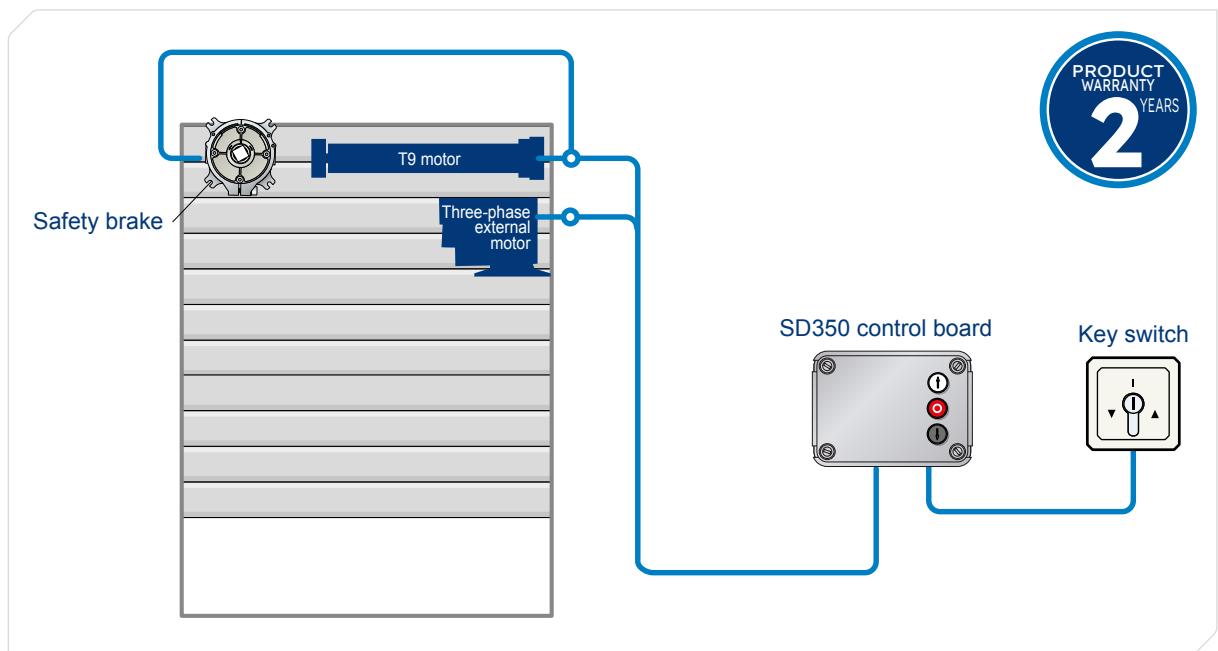
PROTECTION INDEX IP44

DIMENSIONS 262 x 193 x 100 mm

WEIGHT 0.980 kg

STANDARD

## Installation



# Control box

## SD510

A COMPLETE, EASY-TO-INSTALL CONTROL BOX FOR THREE-PHASE MOTORS

- **ADAPTED** to both metal curtains and grilles and to sectional doors.
- **EASY TO CONNECT** thanks to removable terminal blocks and dedicated inputs for each safety accessory.
- **COMPREHENSIVE FUNCTIONS TO SECURE, SIMPLIFY AND PROTECT ACCESS POINTS:**
  - 4 control modes (press-and-hold, mixed, impulse, automatic).
  - Compatible with the necessary safety accessories (4 sets of photocells, safety edge, flashing light).
  - Can be combined with numerous accessories (badge reader, clock, alarm, radio receiver).
- **EASY TO PROGRAM:**
  - 3 standard pre-set programs (according to the selected operating mode and the selected safety edge) make it easy to set up and use.
  - 2 levels of programming (level 1 and expert) that allow you to personalise the system to suit your installation.



Description	Reference
	x 1
SIMUDRIVE SD510	2008779

### Technical characteristics

LCD SCREEN	inside the box
3 BUTTONS ON THE FRONT	up - stop - down
POWER SUPPLY VOLTAGE	230V 3~50/60Hz 380-415V 3N~50/60Hz
MAXIMUM MOTOR POWER	1300 W
ACCESSORIES POWER SUPPLY	24V DC / 0.5A
MAXIMUM CURRENT FOR ACCESSORIES	250 mA / 230V AC (Excluding external loads using 230V AC)
PROTECTION RATING	IP54
DIMENSIONS	221 x 330 x 132 mm
WEIGHT	3.2 kg
REMOVABLE TERMINAL BLOCKS STANDARD	CE

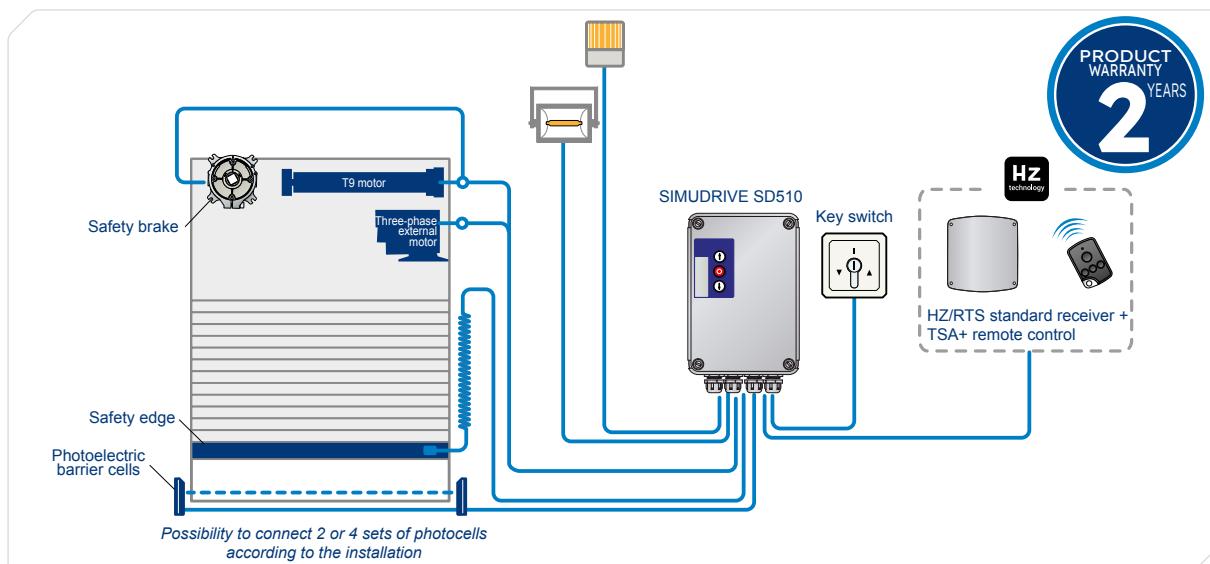


NOTE

The red fault or maintenance indicator:

- Flashes to signal a fault.
- Lights up steadily to signal that maintenance is required.

### Installation





# Wired control box SD510

## Recommended types of control

Type of control	SEQUENTIAL The same button performs the actions UP, STOP and DOWN	OR	3-BUTTONS 1 UP button, 1 DOWN button and 1 STOP button
Remote control 	 TSA+ remote control ref. 2007846	 TSA+ remote control ref. 2007846	 Mobile transmitter 1 channel ref. 2008799
WIRED wall control	 Universal key switch ref. 2004964   Push Button waterproof ref. 2006756	 Universal key switch ref. 2004964   Rotary switch (3 positions) ref. 2006754	 Key switch (3 positions) ref. 2006752
RADIO wall control 	 SEQ. HZ wall switch 3C ref. 2009766   Keypad HZ 2C ref. 2009771		 Wall transmitter 1 channel ref. 2008369
Safety and signaling accessories	 Safety brake	 Safety edge	 Photoelectric cell barrier   Polarized Reflex cell   Signaling light





# NOTES

**CONTROL SYSTEMS  
& SAFETY ACCESSORIES**



# Radio control Hz/RTS standard receiver

- THIS RECEIVER ALLOWS TO CONTROL ONE OR TWO WIRED (SD510, FOR EXAMPLE) with the SIMU-Hz radio technology and to control them with the remote TSA+, the Hz 2C keypad and all transmitters from the SIMU-Hz range.



Description	Reference
	x 1
HZ/RTS standard receiver	1841022

## Technical characteristics

POWER SUPPLY 20-40 Vdc 3A / 20-28 Vac 3A

PROTECTION INDEX IP 55

RADIO FREQUENCY 433.42 MHz

OPERATING MODE sequential

WIRING 2 x 0.75 mm<sup>2</sup> wires, H05 RRF

NUMBER OF RELAYS 2

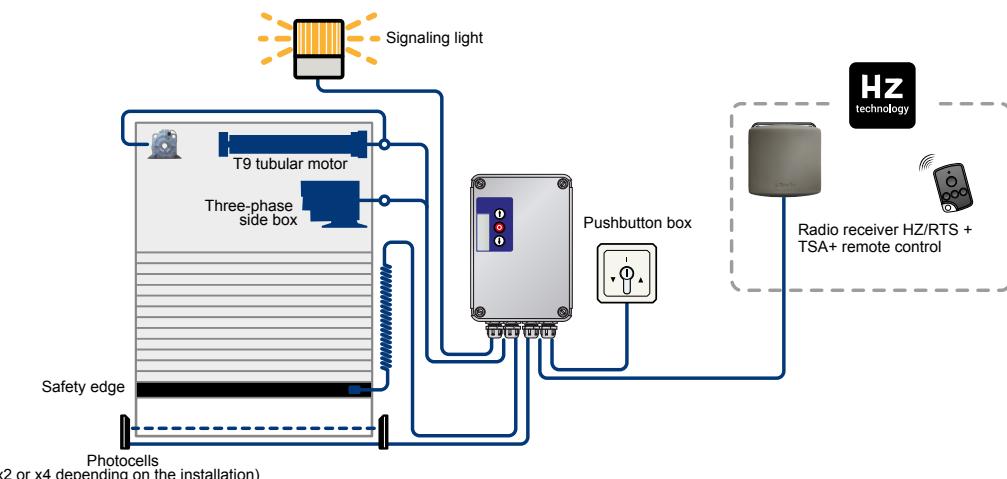
NUMBER OF CHANNELS Possibility to memorize 16 channels per relay,  
i.e. 32 channels

WEIGHT 0.150 kg

## Operating principle

Example: a door is motorised with a three phase T9 motor and controlled by a SD510 control box equipped with safety accessories.

A HZ/RTS standard receiver combined with the SD510 allows the door to be controlled from a SIMU-Hz sequential remote control.



# Remote control TSA+ 4 channels

ELEGANT DESIGN, VISIBLE QUALITY!

- **A MULTI-PURPOSE REMOTE CONTROL:** associated with the motors and control boxes in the SIMU range, the TSA+ remote control enables you to control store shutters and the doors of industrial buildings.
- **AN UNDERRATED DESIGN AND HIGH-QUALITY FINISH:** SIMU wanted to create an understated and elegant remote control with timeless features. Its metal ring with a chrome finish endows it with quality and robustness.
- **HIGHLY PRACTICAL, IT COMES WITH ITS OWN ATTACHMENT HOLDER:** as standard, TSA+ is delivered with a holder made from a material that is both flexible and unbreakable which means it can be clipped onto a car's sun visor or attached to a wall.
- **NO MORE ACCIDENTALLY PRESSING BUTTONS!** The shape and sensitivity of the touch buttons have been designed to avoid accidentally being pressed when the remote control is in your pocket.



Description	References	
	x 1	x 16
TSA+	2007846	2008038

## Recommended combinations

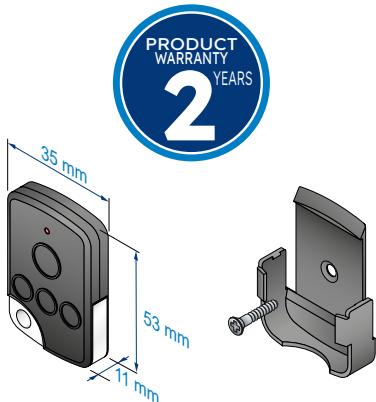
...for store shutters and doors of industrial buildings:



...for buildings equipped with three-phase SD510:



## Technical characteristics



POWER SUPPLY	3V lithium battery - type CR2430
RADIO FREQUENCY	433.42 MHz
NUMBER OF CHANNELS	4
RADIO RANGE	30 meters
PROTECTION RATING	IP54
FUSE	class III
OPERATING TEMPERATURE	-20°C / +70°C
SECURE COMMUNICATION	Encrypted control orders + Rolling code: with 16 million possible combinations
DIMENSIONS	35 x 53 x 11 mm
WEIGHT	38 g



# Radio control keypad HZ 2C

TO CONTROL 2 DEVICES  
WITH EASE

○ **A DISCREET, MODERN DESIGN**

- An anthracite look and compact size to blend in anywhere.

○ **SIMPLE, SECURE USAGE**

- Two channels to control two devices.
- One main code to open all the channels and change the settings, and a secondary code to restrict control to a single channel.
- Protection against unauthorised entry thanks to automatic locking of the keypad after several unsuccessful attempts.

○ **EASY TO INSTALL AND PROGRAMME**

- Two pre-mounted elements to assemble which are attached using a captive screw.
- Just three steps to configure the code using the set and reset buttons.

○ **COMPATIBILITY**

- SD100 Hz control box and the GM range of garage door motors.
- SD510 control box combined with standard Hz receiver.



Description	Reference
x 1	
KEYPAD HZ 2C	2009771



## Technical characteristics

POWER SUPPLY CR 2450 battery

RADIO FREQUENCY 433.42 MHz

NUMBER OF CHANNELS 2

RADIO RANGE 30 meters

PROTECTION INDEX IP55

PRODUCT CLASS III

COMPATIBILITY SD100 HZ, GM range and HZ standard receiver

DIMENSIONS 120 x 70 x 30 mm

WEIGHT 123 gr

APPROVALS

# Radio control radio transmitters 1 channel

## WALL AND MOBILE TRANSMITTER 1 CHANNEL

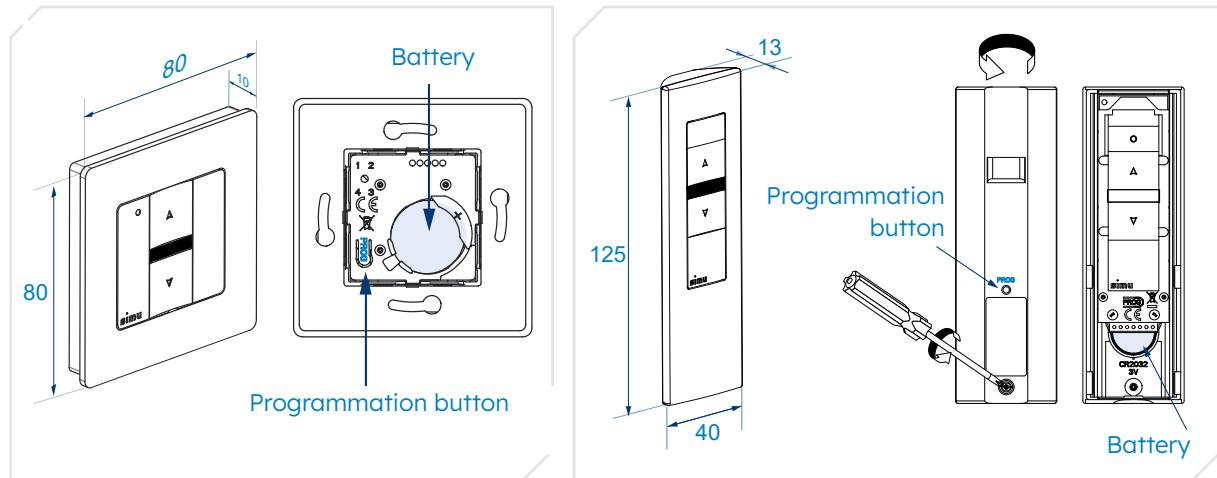
### USE

- Individual control.
- It can also be used to centralise the system.



Description	Reference		
	x1	x10	x100
1 CHANNEL WALL TRANSMITTER	2008369	2008370	2008495
1 CHANNEL MOBILE REMOTE CONTROL	2008799	-	-

Delivered with battery. Mobile version supplied with wall bracket (wall fixing screws not included in both cases).



### Technical characteristics

#### PRODUCT CLASS III

POWER SUPPLY Wall version: lithium 3V type CR 2430 battery  
Mobile version: lithium 3V type CR 2032 battery

RADIO RANGE Wall version: 150 meters in open field and 15 meters through 2 reinforced concrete walls  
Mobile version: 200 meters in open field and 20 meters through 2 reinforced concrete walls

SIZE Wall version: 80x80x10 mm  
Mobile version: 125x40x15 mm

OPERATING TEMPERATURE from 0°C to +45°C

RADIO FREQUENCY 433.42 MHz

APPROVALS



# Radio control Sequential HZ wall switch 3C

**3 CHANNELS TO CONTROL 3 EQUIPMENTS  
FROM INSIDE OR OUTSIDE.**

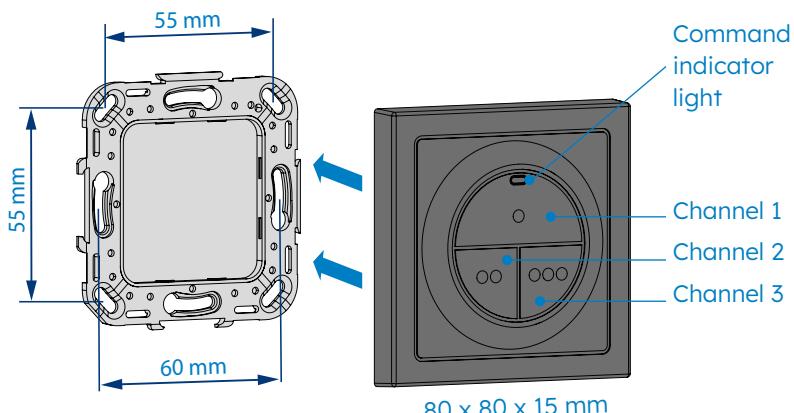
**Control your different doors in sequential mode.**

- **COMFORT:** 3 buttons = 3 equipments (industrial doors, light...)
- **INTERNAL OR EXTERNAL USE:** thanks to its IP55 and its modern and design.
- **EASY TO INSTALL:**
  - No wiring.
  - Sized like a regular wall switch.
- **COMPATIBLE WITH :**
  - SD100 HZ control board.
  - The SD510 control box combined with the standard Hz receiver.
  - HZ lighting micro-receiver.



Description	Reference
	x 1
SEQUENTIAL HZ WALL SWITCH 3C	2009766

## Montage



## Technical characteristics

POWER SUPPLY	3V - CR2430 battery
RADIO FREQUENCY	433.42MHz - one way
NUMBER OF CHANNELS	3
RADIO RANGE	30 meters
PROTECTION INDEX	IP55
PRODUCT CLASS	class III
OPERATING TEMPERATURE	-20°C / +60°C
MOUNTING	surface
OPERATING MODE	sequential
DIMENSIONS	80 x 80 x 15 mm
WEIGHT	47 g
HOMOLOGATIONS	

## USE:

- Individual command only.
- No group or general command.
- Cannot be used for end limit setting.

## COMPATIBILITY :

- SD100HZ control board ([ref. 2009612](#)).
- GM motor range for sectional garage door.
- HZ lighting micro-receiver ([ref. 2008193](#)).

## TIPS:

This wall switch can also control awnings equipped with SIMU-Hz motors.





# NOTES

**CONTROL SYSTEMS  
& SAFETY ACCESSORIES**



# Synthesis of the range key switches, rotary switches and push buttons

					
		REFERENCES	2004964	2001548	2008367
TYPE	Key switch	x	x	x	
	Rotary switch				
	Push button				
FIXING	Surface-mounted	x	x	x	
	Flush-mounted	x			
OPERATING MODE	Unstable	x	x	x	
	Stable	x			
	Mixed	x			
MATERIAL	Metal	x	x	x	
	Plastic				
CONTROL	1 motor	x	x	x	x
DIMENSIONS (mm)		85 x 85 x 60	73.5 x 73.5 x 45	97 x 79 x 43	
PROTECTION INDEX		54	54	x4	
PRODUCT SPECIFICITY		Multi-mode	Reduced size	Built-in declutching (for CENTRIS only)	
POSSIBLE CONNECTIONS	Directly connected to the motor	x	x	x	
	SD100 Hz	x	x	x	
	SD350	x	x		
	SD510	x	x		

2008778	2006752	2006754	2006755	2006756	
x	x				
		x	x		
					x
x	x	x	x	x	
x	x	x			
			x		
x					
	x	x	x	x	x
x	x	x	x	x	
44 x 86 x 140	74 x 74 x 74	74 x 74 x 72	74 x 74 x 72	74 x 74 x 62	
x4	65	65	65	65	
Built-in declutching (for CENTRIS only)	Waterproof	Waterproof	Waterproof	Waterproof	
x	x	x	x		
x	x	x			x
	x	x			
	x	x			x

# Wired controls

## key switches, rotary switches and push buttons

### Universal key switch



Key switch with front cover  
for 2-positions operating  
(up/down)



Key switch with front cover  
for sequential operating  
(up/stop/down)

- Metal key switch.
- 3 configurable operating modes: stable, unstable, mixed.
- Surface-mounting or flush-mounting.
- Dimensions: 85 x 85 x 60 mm.
- Protection index: IP 54.
- Supplied with 3 keys + 2 front covers.
- Weight 0.450 kg.

Description	Reference
	x 1
Universal key switch	2004964
Universal key switch without branding	2008332

### Unstable key switch



Compact size: only 45 mm thick

- Metal key switch.
- Unstable operating mode.
- Surface-mounting.
- Dimensions: 73.5 x 73.5 x 45 mm.
- Protection index: IP 54.
- Supplied with 3 keys.
- Weight 0.311 kg.

Description	Reference
	x 1
Unstable key switch	2001548

## Declutching security box + switch for CENTRIS MOTOR



- Integrated switch.
- Compact design.
- Easy adjustment of the declutching cable.
- Operating mode : unstable 2 positions.
- Mounting: vertical or horizontal.
- Dimensions 44 x 86 x 140 mm.
- Protection index: IP X4.
- Weight 0.703 kg.

Description	References
	x 1
Declutching security box + switch	2008778

## Declutching keyswitch for CENTRIS MOTOR



Pluggable terminal for wiring

- Pluggable terminal.
- Operating mode : unstable 2 positions.
- Surface-mounting.
- Dimensions: 43 x 78 x 95 mm.
- Protection index: IP X4.
- Supplied with 3 keys and a declutching tool.
- Weight 0.558 kg.

Description	References
	x 1
Declutching key switch	2008367



Key ring with declutching tool



## Unstable waterproof key switch



- Plastic key switch.
- Unstable operating mode.
- Surface-mounting.
- Dimensions: 74 x 74 x 74 mm.
- Protection index: IP 65.
- Supplied with 2 keys.

Description	References
	x 1
Waterproof key switch	2006752

## Waterproof rotary switch



- Plastic key switch.
- 2 configurable operating modes: unstable, mixed.
- Surface-mounting.
- Dimensions: 74 x 74 x 72 mm.
- Protection index: IP 65.

Description	References
	x 1
Unstable waterproof switch	2006754
Mixed waterproof switch	2006755

## Waterproof push button



- Push button for sequential control with SD100 Hz radio control box or SD510 control box.
- Surface-mounting.
- Dimensions: 74 x 74 x 62 mm.
- Protection index: IP 65.

Description	References
	x 1
Push button	2006756

## Barrels with same keys



### COMPATIBILITY

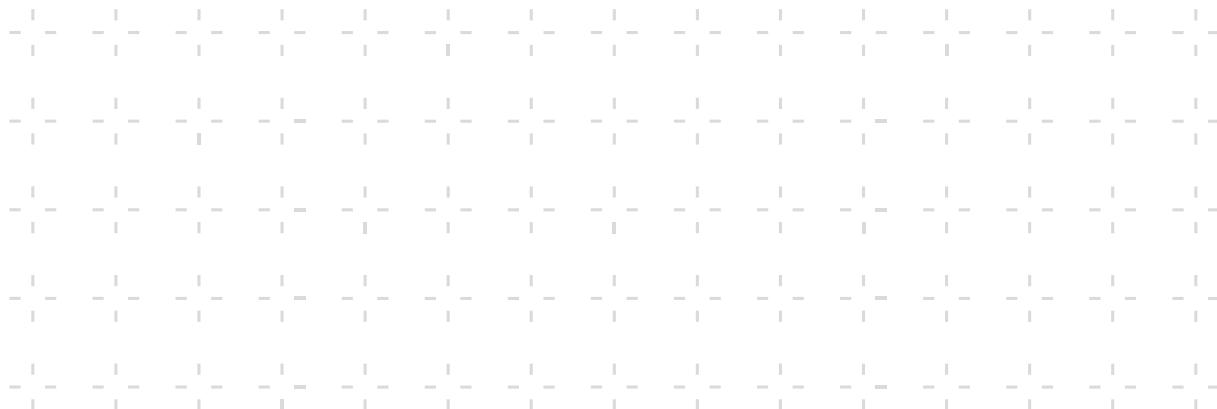
- with universal key switch. Ref. **2004964**.
- with unstable key switch. Ref. **2001548**.
- with declutching security box + switch. Réf **2008778**.
- with declutching keyswitch. Ref **2008367**.

Description	Reference
	x 1
Barrels with same keys	9020748

## Blank key



Description	Reference
	x 10
Short blank key 28 mm (plastic bag with 10 products)	9020749





# NOTES

# Safety accessories

## Installation recommendations

The table hereafter show our recommendations relating to the various components to be integrated into a rolling door on the basis of the possible risks for people and properties (this is the vision of SIMU, which must always be submitted to the approval of the local notified organisations).

For more information on EN 13241-1, please refer to a certified organisation.

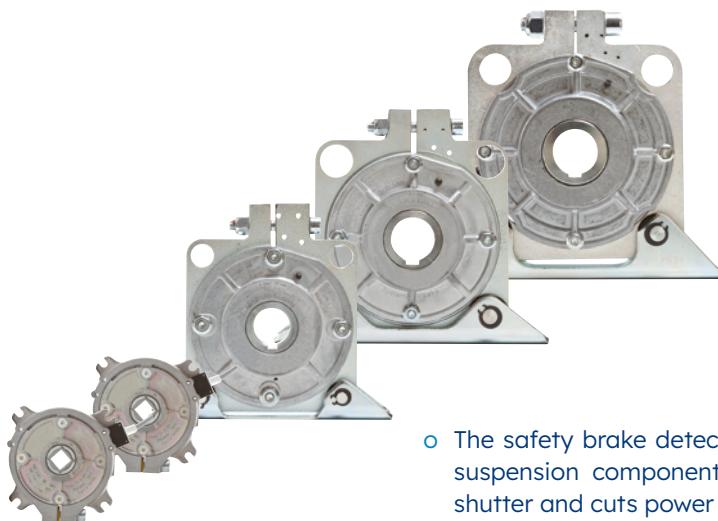
		SAFETY BRAKE	SAFETY EDGE	CELL KITS	SIGNAL LIGHT	AREA LIGHTING
THAT OPEN ONTO PUBLIC ROAD	Maintained command in sight	Yes	No	No	Yes	Yes
	Pulse control	Yes	Yes	Yes *	Yes	No
	Automatic control (automatic closure of the door)	Yes	Yes	Yes *	Yes	No
THAT DOES NOT OPEN ONTO PUBLIC ROAD	Maintained command in sight	Yes	No	No	No	Yes
	Pulse control	Yes	Yes	Yes *	No	No
	Automatic control (automatic closure of the door)	Yes	Yes	Yes *	Yes	No

\* For the rolling grilles, cell sets at the top are also needed.



# Safety accessories

## Safety brakes



- The safety brake detects a sudden overspeed if there is a shutter suspension component failure and it blocks the descent of the shutter and cuts power of the motor.
- A full range of accessories adapted for most of the installations (supports, plates, angle brackets for plates, end caps, shaft for end caps).

### CAUTION

The torque of the safety brake and of the motor are different data. The choice of a safety brake depends on the tube and the weight of shutter and not on the motor torque.

### Selection charts

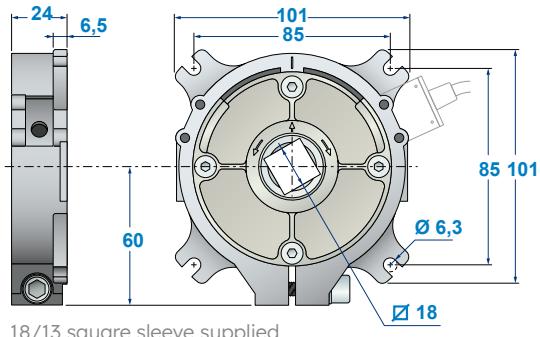
Type of tube	Safety brake				
	95 Nm	147 Nm	332 Nm	552 Nm	1063 Nm
OCTA 70 MM	86 kg* - 217 kg**	91 kg* - 336 kg**	-	-	-
ZF 80 (ZURFLUH FELLER)	76 kg* - 190 kg**	79 kg* - 294 kg**	-	-	-
LP 89 (DEPRAT)	77 kg* - 171 kg**	80 kg* - 264 kg**	-	-	-
102 x 2 / 101.6 x 3.6	121 kg	175 kg	517 kg	-	-
133 x 2.5 / 133 x 4	96 kg	160 kg	450 kg	660 kg	-
159 x 4.5	-	129 kg	396 kg	600 kg	-
168 x 3.5 / 168 x 4.5	-	-	370 kg	580 kg	980 kg
193.7 x 5.4	-	-	325 kg	500 kg	927 kg

\* Maximum value according to the resistance of the tube

\*\* Maximum value accepted by the safety brake

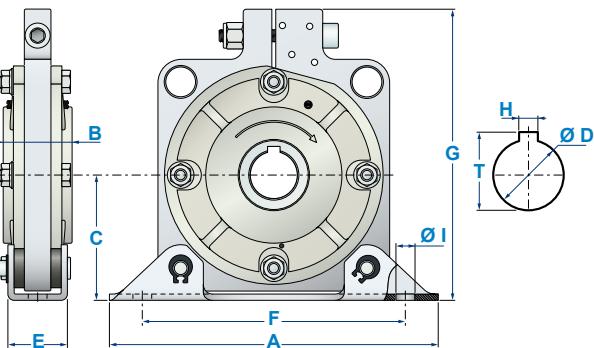
## Technical characteristics

**TYPES: 95 NM - 147 NM**



18/13 square sleeve supplied

**TYPES: 332 NM - 552 NM - 1063 NM**



Safety brake			
	332 Nm	552 Nm	1063 Nm
A	210 mm	260 mm	340 mm
B	44 mm	50 mm	78 mm
C	80 mm	100 mm	150 mm
Ø D	30 mm	40 mm	50 mm
E	38 mm	45 mm	75 mm
F	180 mm	230 mm	300 mm
G	185 mm	225 mm	320 mm
H	8 mm	12 mm	14 mm
Ø I	12 mm	14 mm	22 mm
T	33.3 mm	43.3 mm	53.8 mm

Principle of integration and accessories with **tubular motors**.

Principle of integration and accessories with **side motors**.

REFERENCE	2007927	2007928	2007929	2007930	2007931	
CABLE LENGTH	1 m	5 m	1 m	5 m	1 m	
ADMISSIBLE TORQUE	95 Nm		147 Nm		332 Nm	
STOP MOMENT	545 Nm		812 Nm		796 Nm	
WORKING SPEED	22 rpm		22 rpm		22 rpm	
WEIGHT	1 kg		1 kg		4.5 kg	
SCREWING (not supplied)	4 screws: M6 x 20 DIN 912 Zn 8.8 4 nuts: HU6 DIN 934 4 washers: Ø6.4 x Ø18 x 1.6 DIN 9021Zn	4 screws: M6 x 20 DIN 912 Zn 8.8 4 nuts: HU6 DIN 934 4 washers: Ø6.4 x Ø18 x 1.6 DIN 9021Zn	2 screws: DIN 933 M10 x 30 Zn 8.8 2 nuts: DIN 934 M10 Zn 2 washers: DIN 125 Ø10.5 Zn	2 screws: DIN 933 M12 x 40 Zn 8.8 2 nuts: DIN 934 M12 Zn 2 washers: DIN 125 Ø13 Zn	2 screws: DIN 933 M20 x 55 Zn 8.8 2 nuts: DIN 934 M20 Zn 2 washers: DIN 125 Ø21 Zn	
BRACKETS	 Safety brakes 95 and 147 Nm are directly screwed on side plates (without any bracket)			 bracket + screws réf. 9017176	 bracket + screws réf. 9017177	 bracket + screws réf. 9017178



# Safety accessories safety edges

## IMPORTANT

In pulse control or automatic closure mode, this accessory is required to ensure compliance of the door with EN13241-1.



Installed under the bottom slat of the closing, the safety edge detects the obstacle when closing the door.

- **2 dimensions of rubber profile are available.** The choice depends on the type of door slats used.
- **Rubber profile with reflective interior:** detection works even if the cells are not perfectly aligned.



Visualisation of the proper functioning of the safety edge and of the rubber profile wear thanks to signaling LED visible through the translucent head of the transmitter.

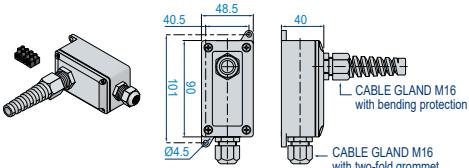
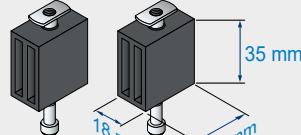
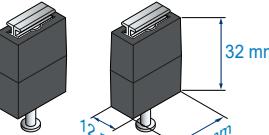
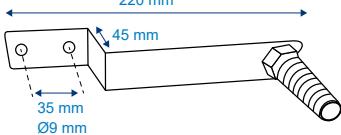
## COMPONENTS FOR ROLLING DOOR WITH LATH HEIGHT ≤ 75 MM

Rail		Material: Aluminium Rail length: 3 m	10 rails of 3 m <b>9016875</b>
Rubber profile		Material: Ethylene - Propylene - Terpolymer Protection index: IP 67	ROLL OF 40 m <b>9019568</b>

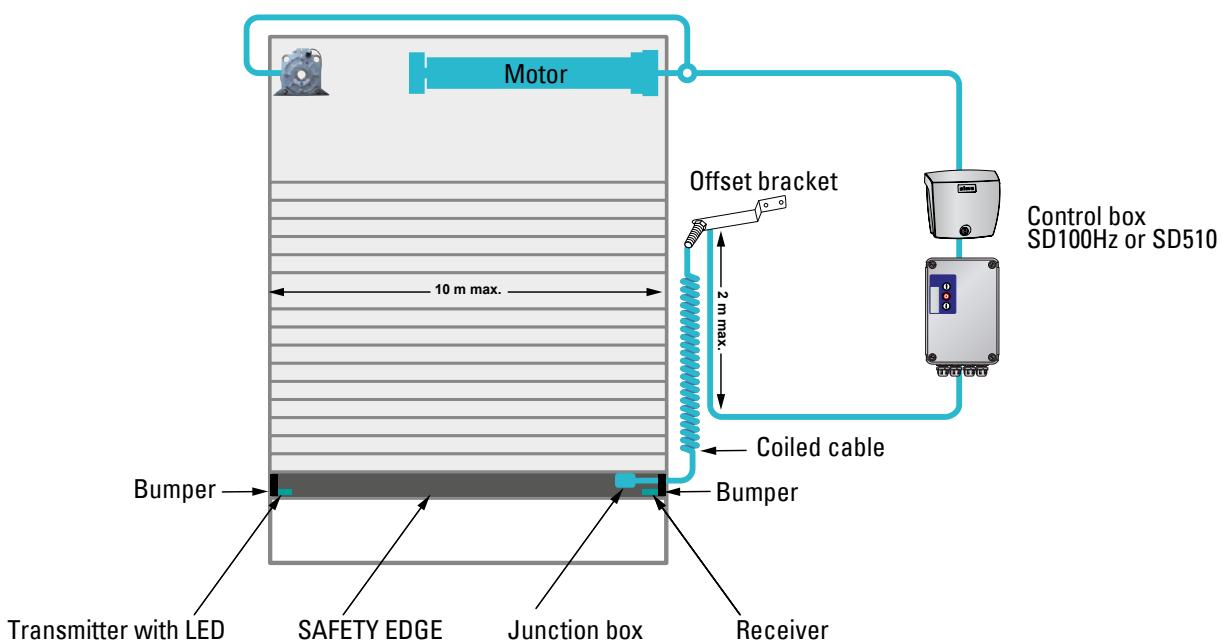
## COMPONENTS FOR ROLLING DOOR WITH LATH HEIGHT OF 75 MM TO 110 MM

Rail		Material: Aluminium Rail length: 2.5 m	10 rails OF 2.5 m <b>9016704</b> (width of 20 mm) <b>9013406</b> (width of 25 mm)
Rubber profile		Material: Ethylene - Propylene - Terpolymer Protection index: IP 67	Roll of 40 m <b>9015221</b>

## COMPONENTS FOR CONNECTION KIT

CONNECTION KIT (compatible with SD100Hz and SD510)		<b>CONNECTION BOX</b> Material: ABS RAL 7035 Protection index: IP 65 Predrilled box with a 4-pin terminal	
		<b>SPIRAL CORD</b> Diameter: 4.5 mm Conductors: 3 strands of 0.25 mm <sup>2</sup> Stretch length: 3.5 m	
		<b>STOPS (X2)</b> Material: Black polypropylene Compatibility: for rubber profile <b>ref.9015221</b>	9021160 1 kit per door
		<b>STOPS (x2)</b> Material: Black polypropylene Compatibility: for rubber profile <b>ref.9019568</b>	
		<b>DETECTION CELLS</b> Conductors: 3 strands of 0.14 mm <sup>2</sup> Maximum detection distance: 10 m	
		<b>OFFSET BRACKET</b> Installation: 2 meters maximum of the control box	

## Installation





# Safety accessories

## photoelectric cells barrier

### MASTER PRO BITECH CELLS



- The cells detect obstacles when opening or closing the door.

Description	Reference
	x 1
MASTER PRO BITECH cells	2009527

### Technical characteristics

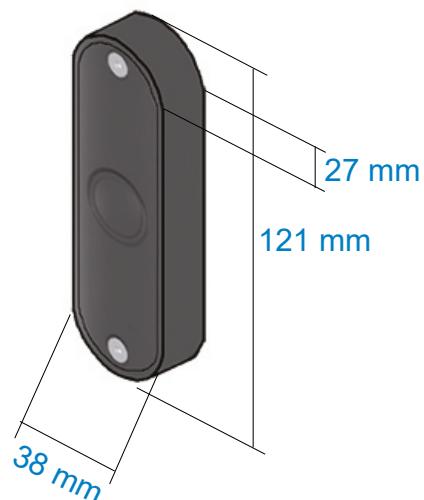
POWER SUPPLY 24 Vac/Dc

RANGE maxi 10 m (less in fog, rain)

PROTECTION INDEX IP 44

WEIGHT 1.130 kg

OPERATING TEMPERATURE -20°C / +60°C



# Safety accessories polarised reflex cell

## CELL + REFLECTOR



90° rotatable - 3 possible positions

Simplified wiring.

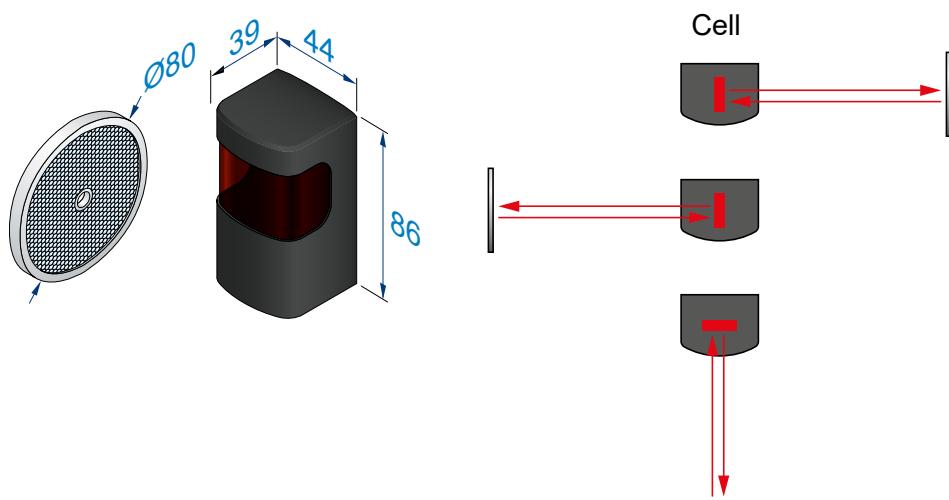
Only 1 cell to connect.

- The cell detects obstacles when opening or closing the door.
- Polarised cell: the beam can be reflected only by the reflector.

Description	References
	x 1
Reflex cell	2008394

## Technical characteristics

POWER SUPPLY	12-24 VDC / VAC (-15% +20%)
RANGE	max 12m (reduced in case of rain)
PROTECTION INDEX	IP 66
Ø REFLECTOR	80 mm
SUPPLIED WITH	- 1 transmitter cell - 1 reflector
WEIGHT	1.145 kg
OPERATING TEMPERATURE	+5°C / +40°C





# Safety accessories signaling light

## MASTERPRO ORANGE LIGHT



Signal the opening and closing movement of the door.

Recommended to signal the movement of the door and necessary in case of exit on the public road.

Description	Reference
	x 1
MASTERPRO 230V ORANGE LIGHT	9015034
MASTERPRO 24V ORANGE LIGHT	9026384

Fixing screws and dowels supplied.

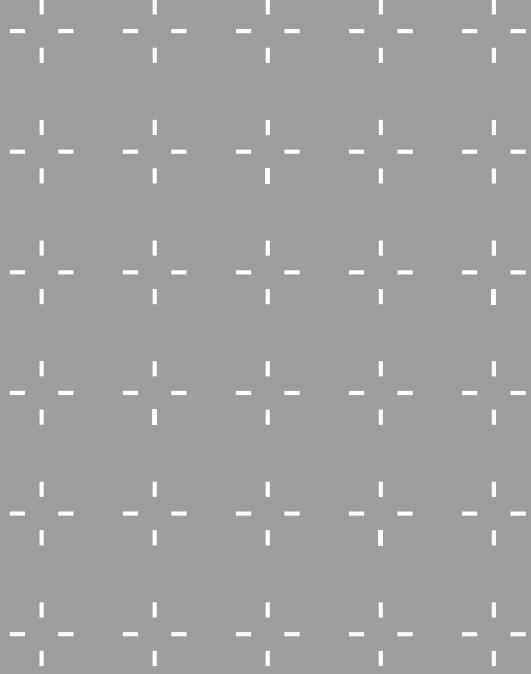
## Technical characteristics

	MASTERPRO ORANGE LIGHT 230V	MASTERPRO ORANGE LIGHT 24V
Reference	9015034	9026384
Use	230V	24V AC/DC
Blink management	By the orange light	By motor or control box
Electrical insulation class	Class I	Class III (TBTS)
Dimensions (H x Ø)	92 x 107 mm	92 x 107 mm
Operating temperature	From -20°C to +60°C	From -20°C to +60°C
Index of Protection	IP54	IP54
Power	25 W	3 W
Weight	374 gr	435 gr
Built-in antenna	-	Hz 433.42 MHz
Compatibility	SD100 Hz and SD510 control box	GM motor range for sectional garage doors and SD510 control box



# NOTES

**CONTROL SYSTEMS  
& SAFETY ACCESSORIES**



## 05. References



## 05. References

Motors references	p. 120
Control and accessory references	p. 124



# Motor references

## CENTRAL MOTORS

RÉFÉRENCE	DÉSIGNATION	PACKING BY	PAGE
CENTRIS motors - 230 volts / 50 Hz			
2008527	CENTRIS S 60/200 230/50 AF	1	14
2007112	CENTRIS M 60/200 230/50 AF	1	14
2007113	CENTRIS M 60/200 230/50 SF	1	14
2007114	CENTRIS M 60/220 230/50 AF	1	14
2007115	CENTRIS M 60/220 230/50 SF	1	14
2007117	CENTRIS L 60/200 230/50 AF	1	14
2007118	CENTRIS L 60/200 230/50 SF	1	14
2007120	CENTRIS L 60/220 230/50 AF	1	14
2007121	CENTRIS L 60/220 230/50 SF	1	14
2007124	CENTRIS L 76/220 230/50 AF	1	14
2007231	CENTRIS L 76/240 230/50 AF	1	14
2007125	CENTRIS XL 60/220 230/50 AF	1	14
2007126	CENTRIS XL 60/220 230/50 SF	1	14
2007128	CENTRIS XL 76/220 230/50 AF	1	14
2007232	CENTRIS XL 76/240 230/50 AF	1	14
2007129	CENTRIS XXL 60/220 230/50 AF	1	14
2007131	CENTRIS XXL 76/220 230/50 AF	1	14
2007134	CENTRIS XXL 76/240 230/50 AF	1	14
CENTRIS motors - 220 volts / 60 Hz			
2007138	CENTRIS 90 60/220 220/60 AF	1	15
2007140	CENTRIS 170 60/220 220/60 AF	1	15
2007141	CENTRIS 170 76/240 220/60 AF	1	15
CENTRIS motors - 120 volts / 60 Hz			
2007119	CENTRIS 100 60/200 AFAD US	1	15
2007123	CENTRIS 100 60/220 AFAD US	1	15
2007130	CENTRIS 200 60/220 AFAD US	1	15
2007133	CENTRIS 200 76/220 AFAD US	1	15



## TUBULAR MOTORS

RÉFÉRENCE	DESIGNATION	PACKING BY	PAGE
T5 motors - 230 volts / 50 Hz			
2000412	540/12-230/50 X1 C2.5BL	1	28
2000432	550/12-230/50 X1 C2.5BL	1	28
T5 motors- 120 volts / 60 Hz			
2000652	540/12-120/60 X1 C2.5BL	1	28
2000653	550/12-120/60 X1 C2.5BL	1	28
T5 motors- 220 volts / 60 Hz			
2006161	538/14 220/60 SASO/1	1	28
DMI5 motors - 230 volts / 50 Hz			
2000756	DMI540/12-230/50 X1 C2.5BL	1	28
2000763	DMI550/12-230/50 X1 C2.5BL	1	28
DMI5 motors - 120 volts / 60 Hz			
2000775	DMI540/12-120/60 X1 C2.5BL	1	28
2000776	DMI550/12-120/60 X1 C2.5BL	1	28
DMI5 motors - 220 volts / 60 Hz			
2006164	DMI538/14-220/60 SASO/1	1	28
T6 motors - 230 volts / 50 Hz			
2000922	NT6 80N/12T 230/50 X1 2.5BL	1	30
2000934	NT6 120N/12T 230/50 X1 C2.5BL	1	30
T6 motors - 120 volts / 60 Hz			
2000986	T680/14 120/60 X1 C2.5 BLANC	1	30
2000987	T6100/14 120/60 X1 C2.5 BLANC	1	30
T6 motors- 220 volts / 60 Hz			
2006165	NT6 60N/14T 220/60 SASO/1	1	30
DMI6 motors - 230 volts / 50 Hz			
2001007	DMI680/12 230/50 X1 C2.5BL	1	30
2001013	DMI6120/12 230/50 X1 C2.5BL	1	30
DMI6 motors - 120 volts / 60 Hz			
2001042	DMI680/14 120/60 X1 C2.5BL	1	30
2001044	DMI6100/14 120/60 X1 C2.5BL	1	30
DMI6 motors - 220 volts / 60 Hz			
2006167	DMI680/14 220/60 SASO/1	1	30
2006168	DMI6100/14 220/60 SASO/1	1	30
T8S motors - 230 volts / 50 Hz, without safety end-limit system			
2008290	T8S 150 Ø94 230/50 NO FDGS	1	36
2008291	T8S 200 Ø94 230/50 NO FDGS	1	36
2008292	T8S 250 Ø94 230/50 NO FDGS	1	36
T8S motors - 120 volts / 60 Hz, without safety end-limit system			
2008288	T8S 200 Ø94 120/60 NO FDGS	1	36
2008289	T8S 280 Ø94 120/60 NO FDGS	1	36
T8S motors - 220 volts / 60 Hz, with safety end-limit system			
2008295	T8S 200 Ø94 220/60 SASO	1	36
T8SDMI motors - 230 volts / 50 Hz, without safety end-limit system			
2008304	T8SDMI 150 Ø94 230/50 NO FDGS	1	36
2008305	T8SDMI 200 Ø94 230/50 NO FDGS	1	36
2008306	T8SDMI 250 Ø94 230/50 NO FDGS	1	36
2008307	T8SDMI 300 Ø94 230/50 NO FDGS	1	36



## TUBULAR MOTORS

REFERENCE	DESIGNATION	PACKING BY	PAGE
T8SDMI motors - 120 volts / 60 Hz, without safety end-limit system			
2008302	T8SDMI 200 Ø94 120/60	1	36
2008303	T8SDMI 280 Ø94 120/60	1	36
T8SDMI motors - 220 volts / 60 Hz, without safety end-limit system			
2008309	T8SDMI 200 Ø94 220/60 SASO	1	36
2009720	T8SDMI 270 Ø94 220/60 SASO	1	36
T8F motors - 230 volts / 50 Hz			
2009654	T830/8F D94 230V/50HZ	1	40
T8 motors - 230 volts / 50 Hz, with safety end-limit system			
2004502	T8 150NM BASE Ø94 FDGS	1	40
2004252	T8 250NM FDC 21 trs BASE Ø94	1	40
2004504	T8 250NM BASE Ø94 FDGS	1	40
2007989	T8 300NM 230/50 BASE Ø94 FDGS	1	40
2006236	T8 350NM BASE D124 B FDGS	1	40
2006237	T8 450NM BASE D124 B FDGS	1	40
T8 motors - 230 volts / 50 Hz, without safety end-limit system			
2007851	T8 150NM BASE Ø94 WITHOUT FDGS	1	40
2007855	T8 350N BASE 124 B WITHOUT FDGS	1	40
2007857	T8 450N BASE 124 B WITHOUT FDC	1	40
T8 motors - 120 volts / 60 Hz, without safety end-limit system			
2004248	T8 200NM 120V/60 BASE Ø94 U	1	40
T8 motors - 220 volts / 60 Hz, with safety end-limit system			
2006435	T845 220V/60HZ K	1	40
T8M motors - 230 volts / 50 Hz, with safety end-limit system			
2004503	T8M 150NM BASE Ø94 FDGS	1	40
2004505	T8M 250NM BASE Ø94 FDGS	1	40
2007406	T8M 250NM FDC 21TRS BASE D94	1	40
2007990	T8M 300NM 230/50 BASE D94 FDGS	1	40
2006242	T8M 350NM BASE D124 B FDGS	1	40
2006243	T8M 450NM BASE D124 B FDGS	1	40
T8M motors - 230 volts / 50 Hz, without safety end-limit system			
2007852	T8M 150NM BASE Ø94 WITHOUT FDGS	1	40
2007854	T8M 250NM BASE Ø94 WITHOUT FDGS	1	40
2007992	T8M 300NM BASE Ø94 WITHOUT FDGS 230/50	1	40
2007856	T8M 350NM BASE Ø124 WITHOUT FDGS	1	40
2007858	T8M 450NM BASE Ø124 WITHOUT FDGS	1	40
T8M motors - 120 volts / 60 Hz, without safety end-limit system			
2004249	T8M 200NM 120V/60 BASE Ø94 UR	1	40
T8M motors - 220 volts / 60 Hz, with safety end-limit system			
2006680	T845M 220V/60HZ K	1	40
T9 motors - 230/400 volts / 50 Hz, with safety end-limit system			
2006761	T9 300NM BASE Ø94 C FDGS	1	42
2006790	T9 400NM BASE D124 C FDGS	1	42
2006791	T9 500NM BASE D124 C FDGS	1	42
2006792	T9 600NM BASE D124 C FDGS	1	42
2006793	T9 800NM BASE D124 C FDGS	1	42
T9M motors - 230/400 volts / 50 Hz, with safety end-limit system			
2006762	T9M 300NM BASE Ø94 C FDGS	1	42
2006794	T9M 400NM BASE D124 C FDGS	1	42
2006795	T9M 500NM BASE D124 C FDGS	1	42
2006796	T9M 600NM BASE D124 C FDGS	1	42
2006797	T9M 800NM BASE D124 C FDGS	1	42
T9M motors - 220 volts / 60 Hz, with safety end-limit system			
2009727	T9M 250/8 Ø94 FDGS	1	42
2009340	T9M 400 Ø124 C FDGS CORTINAS	1	42
2009728	T9M 600/10 Ø124 FDGS	1	42
2009729	T9M 600/10 R Ø158 FDGS	1	42



## SIDE MOTORS

REFERENCE	DESIGNATION	PACKING BY	PAGE
T9M motors - 230/400 volts / 50 Hz, with safety end-limit system			
2006762	MOTOR T9M 300NM BASE Ø94 C FDGS	1	46
2006794	MOTOR T9M 400N BASE 124 C FDGS	1	46
2006795	MOTOR T9M 500N BASE 127 C FDGS	1	46
2006796	MOTOR T9M 600N BASE 124 C FDGS	1	46
2006797	MOTOR T9M 800N BASE 124 C FDGS	1	46
T9M motors - 220 volts / 60 Hz, with safety end-limit system			
2009727	T9M 250/8 Ø94 FDGS	1	46
2009340	T9M 400 Ø124 C FDGS CORTINAS	1	46
2009728	T9M 600/10 Ø124 FDGS	1	46
2009729	T9M 600/10 R Ø158 FDGS	1	46
SIMUBOX motors - SINGLE-PHASE POWER SUPPLY: 230 volts / 50 Hz, for roller shutter doors			
2009128	SIMUBOX 200/12 MONO	1	60
2009129	SIMUBOX 250/08 MONO	1	60
SIMUBOX motors - THREE-PHASE POWER SUPPLY: 400 volts 3~/50 Hz, for roller shutter doors			
2009132	SIMUBOX 220/12 TRI	1	64
2009152	SIMUBOX 300/12 TRI	1	64
2009133	SIMUBOX 430/08 TRI	1	64
2009130	SIMUBOX 220/12 EI TRI	1	64
2009388	SIMUBOX 300/12 EI TRI	1	64
2009131	SIMUBOX 430/08 EI TRI	1	64
SIMUBOX SI motors - 230/400 volts / 50 Hz, for roller shutter doors			
2004885	SIMUBOX SI 250N/15RPM-SINGLE-PHASE	1	70
2004886	SIMUBOX SI 400N/15RPM-THREE-PHASE	1	70
2004887	SIMUBOX SI 550N/15RPM-THREE-PHASE	1	70
2004888	SIMUBOX SI 750N/15RPM-THREE-PHASE	1	70
2004889	SIMUBOX SI 1000N/10RPM-THREE-PHASE	1	70
SIMUBOX motors - SINGLE-PHASE POWER SUPPLY: 230 volts / 50 Hz, for sectional doors			
2009134	SIMUBOX 80/25 MONO	1	72
SIMUBOX motors - THREE-PHASE POWER SUPPLY: 400 volts 3~/50 Hz, for sectional doors			
2009136	SIMUBOX 120/25 TRI	1	72
2009135	SIMUBOX 120/25 EI TRI	1	72





# Control and accessory references (except motors)

## ORDER BY ASCENDING ORDER OF REFERENCE

REFERENCE	DESIGNATION	PACKING BY	PAGE
550121	DRIVE SHAFT WITH HASP	1	50, 66, 67
1780600	BOBBIN FLANGE 133X4 SHAFT 40	1	50, 66, 67
1780601	BOBBIN FLANGE 168X4.5 SHAFT 40	1	50, 66, 67
1781019	BALLS BEARING DIAM 30MM	1	68
1781024	BOBBIN FLANGE 101.6X3.6 SHAFT 30	1	34, 35, 38, 39, 42, 48, 49, 66, 67
1781025	BOBBIN FLANGE 133X4 SHAFT 30	1	34, 35, 38, 39, 42, 48, 49, 50, 66, 67
1781056	BOBBIN FLANGE 102X2 SHAFT 30	1	34, 35, 38, 39, 42, 48, 49, 66, 67
1781057	BOBBIN FLANGE 108X4SHAFT 30	1	34, 35, 38, 39, 42, 48, 49
1841022	HZ/RTS STANDARD RECEIVER	1	92
2001548	KEY SWITCH CANNOT BE DISMANTLED UNST. SURF. MOUNT.	1	100
2003848	BOBBIN OPP.SIDE DIAM 127SHAFT 20	1	56, 68
2003849	BOBBIN OPP.SIDE DIAM 127SHAFT 35	1	57, 68
2003851	BOBBIN OPP.SIDE DIAM 158 SHAFT 35	1	57, 68
2003920	BOBBIN FLANGE 133X2.5 SHAFT 30	1	34, 35, 38, 39, 42, 48, 49, 50, 66, 67
2003921	BOBBIN FLANGE 159X4.5 SHAFT 30	1	39, 42, 49, 50
2003928	BOBBIN FLANGE 133X2.5 SHAFT 40	1	50, 66, 67
2003929	BOBBIN FLANGE 159X4.5 SHAFT 40	1	50, 66, 67
2003930	BOBBIN FLANGE 193.7X5.4 SHAFT 40	1	50
2004155	NICK CUT OFF JOINT Ø10/Ø14 M4	100	54
2004194	ADJUSTABLE BOBBIN FOR TUBE 159X4.5 Ø30	1	56, 57
2004841	SAFT D30/C18	1	34, 35, 38, 39, 48
2004964	UNIVERSAL KEY BOX	1	100
2005002	BRACKET BOX SI for 250.15 / 400.15 / 550.15	1	73, 74
2005003	BRACKET BOX SI for 750.15 / 1000.10	1	73, 74
2005004	PLATE BOX SI 550	1	74
2005005	PLATE BOX SI 1000	1	74
2005006	SHAFT D30 FOR BOX SI 250	1	73, 74
2005007	SHAFT D40 FOR BOX SI 550	1	73, 74
2005008	SHAFT D55 FOR BOX SI 1000	1	73, 74
2005010	WELDINGPLATES D30/124 FOR TUBE 133X4.0	1	73, 74
2005012	WELDINGPLATES D40/124 FOR TUBE 133X4.0	1	73, 74
2005013	WELDINGPLATES D40/149 FOR TUBE 159X4.5	1	73, 74
2005016	WELDINGPLATES D55/149 FOR TUBE 159X4.5	1	51, 73, 74
2005018	WELDINGPLATES D55/182 FOR TUBE 193.7X5.4	1	51, 73, 74
2005020	SHAFT D30 FOR BEARING BOX SI 250	1	73, 74
2005021	SHAFT D40 FOR BEARING BOX SI 550	1	73, 74
2005022	SHAFT D55 FOR BEARING BOX SI 1000	1	73, 74
2005023	BEARING D30 BOX SI 250	1	73, 74



2005024	BEARING D40 BOX SI 550	1	73, 74
2005041	BEARING D55 BOX SI 1000	1	73, 74
2006527	HAND CRANK HOOK D14L1200 R9010 X1	1	53, 80
2006528	HAND CRANK HOOK D14L1200 R9010 X10	10	53, 80
2006531	HAND CRANK HOOK D14L1500 R9010 X1	1	53, 80
2006532	HAND CRANK HOOK D14L1500 R9010 X10	10	53, 80
2006535	HAND CRANK HOOK D14L2600 R9010 X1	1	53, 80
2006536	HAND CRANK HOOK D14L2600 R9010 X10	10	53, 80
2006537	HAND CRANK HOOK D14L3000 R9010 X1	1	53, 80
2006538	HAND CRANK HOOK D14L3000 R9010 X10	10	53, 80
2006541	HAND CRANK HOOK D14L1500 R7035 X1	1	53, 80
2006542	HAND CRANK HOOK D14L1500 R7035 X10	10	53, 80
2006543	HAND CRANK HOOK D14L1600 R9010 X1	1	53, 80
2006544	HAND CRANK HOOK D14L1600 R9010 X10	10	53, 80
2006549	HAND CRANK HOOK D14L2000 R9010 X1	1	53, 80
2006550	HAND CRANK HOOK D14L2000 R9010 X10	10	53, 80
2006637	CRANK INVISIBLE BOX OUTLET X1	1	54, 78
2006752	KEY BOX SURF. MOUNT. UNSTABLE	1	99, 102
2006754	WATERPROOF LEVER BOX SURF. MOUNT. UNSTABLE	1	99, 102
2006755	WATERPROOF MIXED LEVER BOX SURF. MOUNT.	1	99, 102
2006756	WATERPROOF PUSH BUTTON BOX SURF. MOUNT.	1	99, 102
2007042	JOINT EYE DIAM 10 PLASTIC	1	53
2007846	NEW TRANSMITTER SIMU ACCES HZ 4C	1	93
2007927	SAFETY BRAKE 95NM SQUARE 18 MM	1	32, 33, 34, 35, 107
2007928	SAFETY BRAKE 95NM SQUARE 18 MM CABLE 5M	1	32, 33, 34, 35, 107
2007929	SAFETY BRAKE 147NM SQUARE 18 MM	1	32, 33, 34, 35, 38, 39, 48, 107
2007930	SAFETY BRAKE 147NM SQUARE 18 MM CABLE 5 M	1	32, 33, 34, 35, 38, 39, 48, 107
2007931	SAFETY BRAKE 332NM DIA.30 MM	1	38, 39, 49, 50, 66, 67, 107
2007932	SAFETY BRAKE 552NM DIA.40 MM	1	50, 66, 67, 107
2007933	SAFETY BRAKE 1063NM DIA.50 MM	1	51, 107
2007998	SHAFT D55-50 FOR SAFETY BRAKE 1063NM	1	51
2008000	BOBBIN FLANGE 168X3.5 SHAFT 55	1	51
2008001	BOBBIN ZF80 FOR SAFETY BRAKE 95/137NM	1	32, 33
2008002	BOBBIN OCT70 FOR SAFETY BRAKE 95/137NM	1	32, 33
2008003	BOBBIN LP89 FOR SAFETY BRAKE 95/137NM	1	32, 33
2008038	NEW TRANSMITTER SIMU ACCES HZ 4C X16	16	93
2008065	90°UNIVERSAL JOINT HEXA 7 GREY	1	54
2008066	90°UNIVERSAL JOINT HEXA 7 WHITE	1	54
2008069	90°UNIVERSAL JOINT SQUARE 6 GREY	1	54
2008070	90°UNIVERSAL JOINT SQUARE 6 WHITE	1	54
2008236	SIDE PLATE 450MM SAF.BRAKE+ANGL.BRAC.	1	51
2008237	450MM SAFETY BRAKE 1000NM+ANCL.BRAC	1	51
2008332	UNIVERSAL KEY SWITCH without branding	1	100
2008367	DECLUTCH KEY SWITCH SIMU	1	16, 98, 101
2008369	WALL MOUNTED HZ TRANSMITTER 1C WHITE	1	95
2008370	WALL MOUNTED HZ TRANSMITTER 1CWHITE/10	10	95
2008394	REFLEX PHOTOCELL SIMU	1	111
2008495	WALL MOUNTED HZ TRANSMITTER 1C WHITE/100	100	95
2008778	DECLUTCH SECU BOX CM+SWITCH SIMU	1	16, 98, 101



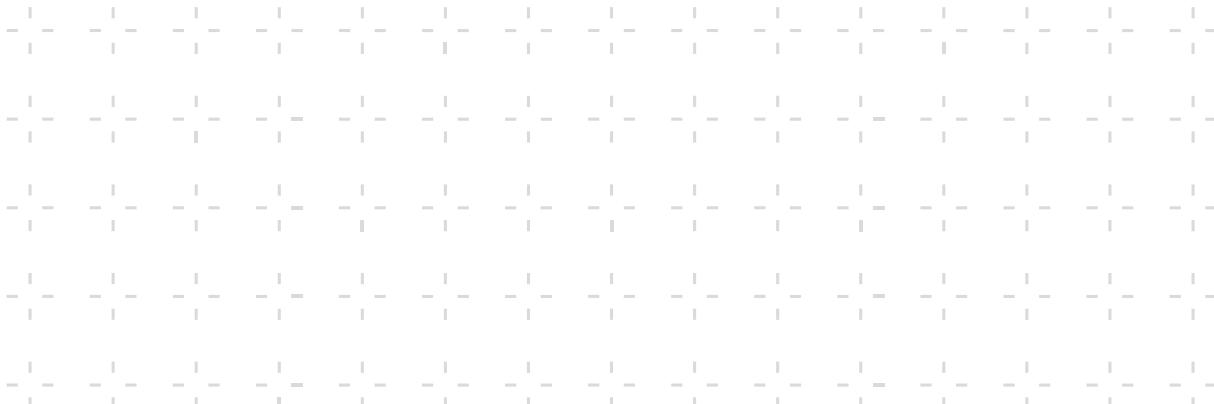
2008779	SD510	1	89
2008799	TRANSMITTER HZ MOBILE 1C	1	95
2008886	WALLCLIP TSA 3B x10	1	93
2009527	MASTER PRO BITECH cells	1	110
2009611	SIMUDRIVE SD350	1	88
2009612	SIMUDRIVE SD100HZ	1	86
2009766	SEQUENTIAL HZ WALL SWITCH	1	96
2009771	DIGICODE HZ 2C	1	94
2270140	WALL BRACKET FOR T8M/T9M D89	1	52
4200472	ACE DIA30/160 WASHER	1	38, 39, 42, 49, 50, 66, 67
9000848	HANDLE H7 EYE DMI L325	1	52
9000907	OVERRIDE EYE FOR SIDE MOTOR	1	80
9000987	20 SETTING SCREWDRIVER T5	1	55
9001297	WHEEL Ø94 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9001312	ADAPTOR KIT Ø97 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9001313	ADAPTOR KIT Ø100 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9001413	ANGLE BRACKET T8 UP TO 300 N.M.	1	42, 48, 49
9001414	ANGLE BRACKET WALL T8 UP TO 300 N.M.	1	52
9011735	ADAPTOR KIT OCT102 FOR MOTOR Ø80 150Nm	1	38, 39, 42, 48, 49
9011781	20 FLEXIBLE SETTING SCREWDRIVER T5	1	55
9012736	KIT CHAIN BOX SI	1	79
9013406	ALUMINIUM RAIL SD	1	108
9013437	ADAPTOR KIT Ø131 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9013438	ADAPTOR KIT Ø133 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9013439	ADAPTOR KIT Ø149 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9013525	ADAPTOR KIT Ø152 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9013526	ADAPTOR KIT Ø158 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9013527	ADAPTOR KIT Ø160 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9013528	ADAPTOR KIT Ø168 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9013529	ADAPTOR KIT Ø124 FOR MOTOR 350/450NM	1	50
9013530	ADAPTOR KIT Ø127 FOR MOTOR 350/450NM	1	50
9013531	ADAPTOR KIT Ø131 FOR MOTOR 350/450NM	1	50
9013532	ADAPTOR KIT Ø133 FOR MOTOR 350/450NM	1	50
9013533	ADAPTOR KIT Ø149 FOR MOTOR 350/450NM	1	50
9013534	ADAPTOR KIT Ø158 FOR MOTOR 350/450NM	1	50
9013535	ADAPTOR KIT Ø160 FOR MOTOR 350/450NM	1	50
9013536	ADAPTOR KIT Ø168 FOR MOTOR 350/450NM	1	50
9013537	ADAPTOR KIT Ø127 FOR MOTOR 500/800NM	1	50
9013538	ADAPTOR KIT Ø149 FOR MOTOR 500/800NM	1	50, 51
9013539	ADAPTOR KIT Ø158 FOR MOTOR 500/800NM	1	50, 51
9013540	ADAPTOR KIT Ø160 FOR MOTOR 500/800NM	1	50, 51
9013541	ADAPTOR KIT Ø168 FOR MOTOR 500/800NM	1	50, 51
9013542	ADAPTOR KIT Ø181 FOR MOTOR 500/800NM	1	50, 51
9013822	ADAPTOR KIT Ø127 FOR MOTOR Ø80 B	1	38, 39, 42, 48, 49
9013824	ADAPTOR KIT Ø124 FOR MOTOR Ø80 B	1	38, 39, 42, 48, 49
9013826	ADAPTOR KIT Ø119 FOR MOTOR Ø80 B	1	38, 39, 42, 48, 49
9014877	JOINT EYE PLASTIC DIAM 10	1	53
9015034	ORANGE LIGHT MASTERPRO 230V	1	112
9015134	ANGLE BRACKET FIX T8/9 D80 OBLONG	1	42, 48, 49
9015221	PROFIL CAOUT OSE 20/40/11 40M	1	108
9015363	KIT:ADAPTATION D60/D34 FOR CENTRIS	1	16
9015364	KIT:ADAPTATION D60/D42 FOR CENTRIS	1	16
9015366	KIT:ADAPTATION D60/D48 FOR CENTRIS	1	16



9015574	KIT WHEEL Ø124 FOR MOTOR T950 & 960	1	50
9016332	SHORT EYE OUTLET LG 63MM	1	52
9016636	Wheel Ø95 FOR MOTOR Ø80	1	38, 39, 42, 48, 49
9016704	ALUMINIUM RAIL RUBER PROFIL CIAL 10X2.5M	1	108
9016731	SPACER KIT 220 - 240 FOR CENTRIS	1	16
9016875	ALUMINIUM RAIL OP PGE 10X3M	1	108
9017157	PLATE CM 280X280 T6 T8 T9 Ø80	1	34, 35, 42, 48, 49
9017158	PLATE CM 330X330 T6 T8 T9 Ø80	1	34, 35, 42, 48, 49
9017159	PLATE CM 330X330 T8 T9 Ø89	1	50
9017160	PLATE CM 330X330 SIMUBOX	1	66
9017161	PLATE CM 400X400 T8 T9 Ø80	1	42, 49
9017162	PLATE CM 400X400 T8 T9 Ø89	1	50
9017163	PLATE CM 400X400 SIMUBOX	1	66
9017164	PLATE CM 450X450 T980 Ø89	1	50
9017165	PLATE CO 280X280 ANTICHUTE	1	34, 35, 38, 42, 48, 49
9017167	PLATE CO 330X330 SAFETY BRAKE	1	34, 35, 38, 42, 48, 49, 50, 66
9017168	PLATE CO 330X330 FOR BOBBIN	1	39
9017169	PLATE CO 400X400 SAFETY BRAKE	1	38, 42, 49, 50, 66
9017171	PLATE CO 450X450 SAFETY BRAKE	1	50
9017172	ANGLE BRACKET FOR PLATE 280 + SCREWS	1	34, 35, 42, 48, 49
9017173	ANGLE BRACKET FOR PLATE 330 + SCREWS	1	34, 35, 42, 48, 49, 50, 66
9017174	ANGLE BRACKET FOR PLATE 400 + SCREWS	1	42, 49, 50, 66
9017175	ANGLE BRACKET FOR PLATE 450 + SCREWS	1	50
9017176	ANGLE BRACKET FOR SAFETY BRAKE 332NM + SCREWS	1	38, 39, 49, 50, 66, 107
9017177	ANGLE BRACKET FOR SAFETY BRAKE 552NM + SCREWS	1	50, 66, 107
9017178	ANGLE BRACKET FOR SAFETY BRAKE 1063NM + SCREWS	1	51, 107
9017179	BALL BEARING INA DIAM.30 + SCREWS	1	56, 57, 66, 68
9017180	OPP SIDE ANGLE BRACKET ->BOBBIN SHAFT 35 + SCREWS	1	57, 66, 68
9017181	BRAKET KIT TYPE 6 FOR PLATE	1	34
9017182	CLAMP FOR BOBBIN DIAM 20MM + SCREWS	1	56, 68
9017271	CLASSIC KIT DECLUTCH HANDLE MC SIMU	1	16
9017544	CLASSIC KIT HANDLE + CABLE MC SIMU	1	16
9017950	WALL BRACKET FOR DMI	1	33
9018069	BRACKET FOR T8S/T8S DMI MOTOR /1	1	37, 39
9018070	BRACKET FOR T8S/T8S DMI MOTOR /10	10	37, 39
9018121	ADAPTOR KIT OCT125 HEROAL Ø80 200Nm	1	38, 39, 42, 48, 49
9018127	BRACKET KIT FOR T8S/T8S DMI MOTOR /1	1	37, 38
9018370	KIT BRACKET T8S T8SDMI COMPTACT/1	1	37
9018569	RING KIT HEXA 7 FOR T8SDMI LG:270	1	52
9019238	KIT BRACKETT6DMI TUBE D133	1	35
9019458	CHAIN MANUAL OVERRIDE T8SDMI KIT SIMU WITHOUT CHAIN	1	37, 53
9019460	CHAIN MANUAL OVERRIDE	1	37, 53
9019540	PLATE CM 330x330 T8 SDMI	1	38
9019568	PROFIL CAOUTC OSE 3CH 14/40/01	1	108
9019839	KIT BRACKET T8S/T8SDMI COMPACT WELDABLE /1	1	37
9019914	ADAPTOR SET.D126 MOTOR D80	1	38
9020748	BARRELS WITH SAME KEYS	1	103
9020749	SHORT BLANK KEY 28MM	plastic bag with 10 products	103
9021160	KIT CONNEXION LP ACCES	1	109



9026384	ORANGE LIGHT MASTERPRO 24V	1	112
9146500	MOUNTING BRACKET FOR SIDE MOTOR	1	67
9146501	OVERRIDE CHAIN FOR SIDE MOTOR LENGTH 10M	1	79
9146510	WALL BRACKET FOR SIMUBOX	1	67
9146521	BLOCK ROD	1	66, 78
9146566	WASHER DIA 30 FOR TUBE	1	39, 42, 49, 50, 66, 67
9146580	DRIVE SHAFT WITH HASP	5	38, 39, 42, 49, 50, 66, 67
9146583	STOP COLLAR FOR SOMFY	1	78
9340020	EYE+HANDLE+SLEEVE	10	53
9520079	MSIX BRACKET:KIT->CIC PLATE	1	35
9520187	BRACKET T5:PLATE 100X100 IMBAC	1	32
9521015	ADAPTOR NT5 F5039 D.85	1	32, 33
9521022	ADAPTOR NT5 IMBAC OCT70 1.2	1	32, 33
9521033	ADAPTOR NT5 ZURFLUH 80	1	32, 33
9530018	BRACKET T6 PLATE 120MM FIX:4X85MM/DISTA CENTER 100	1	32
9530110	ADAPTOR KIT NT6F5039	1	32, 33
9530114	ADAPTOR KIT NT6TUBE ZF 80	1	32, 33
9530117	ADAPTOR KIT NT6SIMU OCTO 70X1,2	1	32, 33
9530122	ADAPTOR KIT NT6TUBE OCTO 114	1	32, 33
9530124	ADAPTOR KIT NT6TUBE D 101.6X3.6	1	34, 35
9530125	ADAPTOR KIT NT6D101.6X1.6 MISCHLER 100	1	34, 35
9530126	ADAPTOR KIT NT6TUBE D108X4	1	34, 35
9530127	ADAPTOR KIT NT6TUBE D133X4	1	34, 35
9530128	ADAPTOR KIT NT6TUBE D133X2.5	1	34, 35
9541089	ANGLES BRACKETS ->835/45 940/50/60	1	50, 51
9541103	ANGLE BRAKCKET KIT / WALL MONTING	1	52
9542008	WINDING CO.DIAM.94-BALL BEARING	1	56, 68
9542009	WINDING CO-DIAM.97-BALL BEARING	5	56, 68
9542012	WINDING CO.DIAM.124-SHAFT 20	1	56, 68
9542521	PLUG END CO D124 AXE 30	1	56, 57, 68
9542522	PLUG END CO D127 SHAFT 30	1	56, 57, 68
9685136	LONG EYE OUTLET	1	52
9685142	INVISIBLE BOX OUTLET	1	54
9706034	DMI BRACKET 100 X 100	1	33



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