



# ROLLER SHUTTER

MOTORS,  
CONTROLS  
& ACCESSORIES



[www.simu.com](http://www.simu.com)

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MANUFACTURERS OF MOTORS

AND AUTOMATIC CONTROLS

FOR ROLLER SHUTTERS, SUN BLINDS,

INDUSTRIAL AND COMMERCIAL SHUTTERS

SINCE 1952



For over 60 years, SIMU has built on its industrial knowledge and expertise, and founding values to offer customers all over the world quality products and services.

In 60 years, SIMU has become one of the reference brands on the roller shutter, industrial and commercial shutter motor, control and accessory market.

## OUR VALUES...

EXPRESS OUR AMBITIONS AND PERSONALITY.  
THEY GUIDE US AND DIRECT US EVERYDAY.

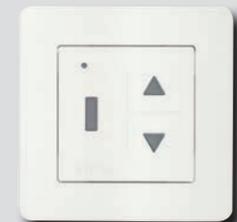
### RELIABILITY

Whether it's in our products, services, processes, or in our discussions with our customers, we constantly aim for quality and excellence.



### SIMPLICITY

Simple solutions, organisation, discussions, respect...  
Close relationships is what SIMU is all about.



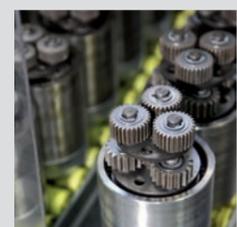
### PROXIMITY

Knowing our customers well, meeting their needs and sometimes anticipating these needs, working in an atmosphere of trust and friendliness: our closeness with our customers reflects our commitment!



### PRACTICALITY

We listen, we observe, and then we make recommendations. Because our customers' expectations are concrete and specific, we provide efficient responses.



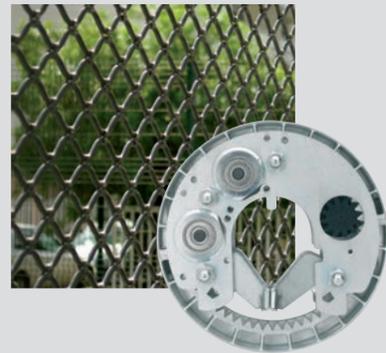
# OUR KNOWLEDGE ...

AND EXPERTISE HAS ONLY ONE GOAL:  
TO MEET THE NEEDS OF SHUTTER PROFESSIONALS  
BY BRINGING THEM THE BEST SOLUTIONS!



## MOTORS FOR ROLLER SHUTTERS

SIMU invented the tubular motor for roller shutters in 1959.



## MOTORISED SOLUTIONS FOR INDUSTRIAL AND COMMERCIAL SHUTTERS

SIMU is a real expert on the market, with knowledge of all current technology at its fingertips: tubular motors, central motors, external motors.

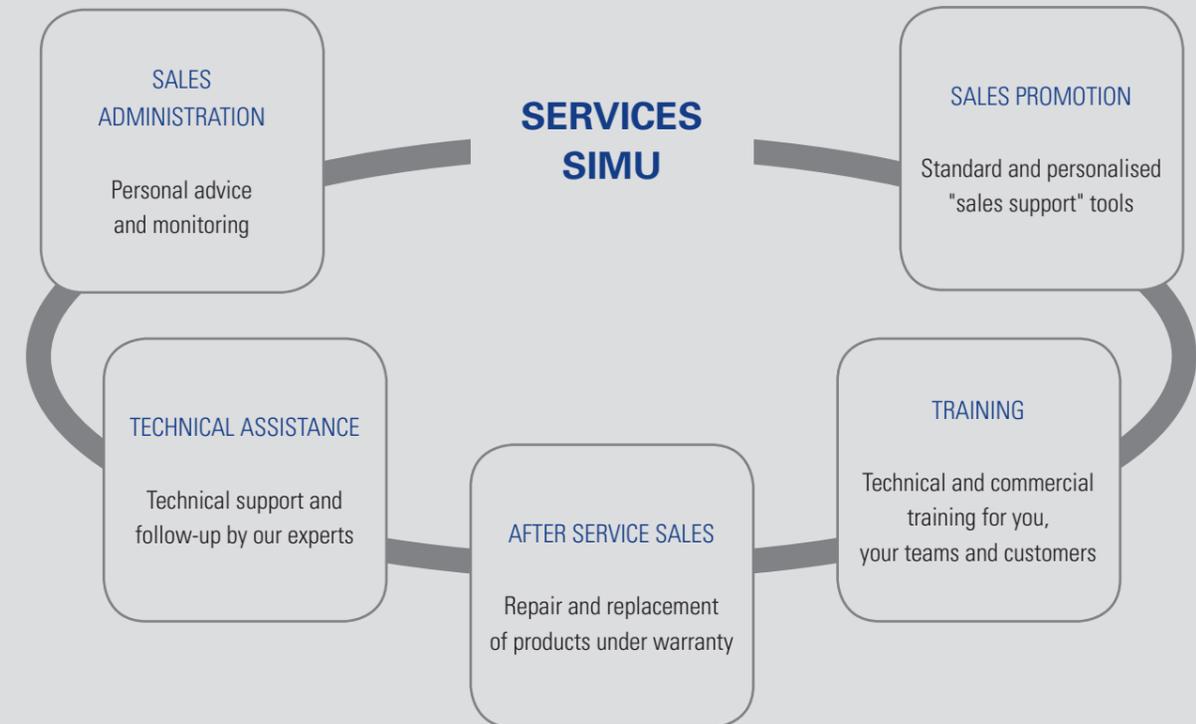


## CONTROL SYSTEMS AND AUTOMATION

Thanks to SIMU-Hz technology, SIMU is a real expert in radio control.

# MAKING PROGRESS TOGETHER...

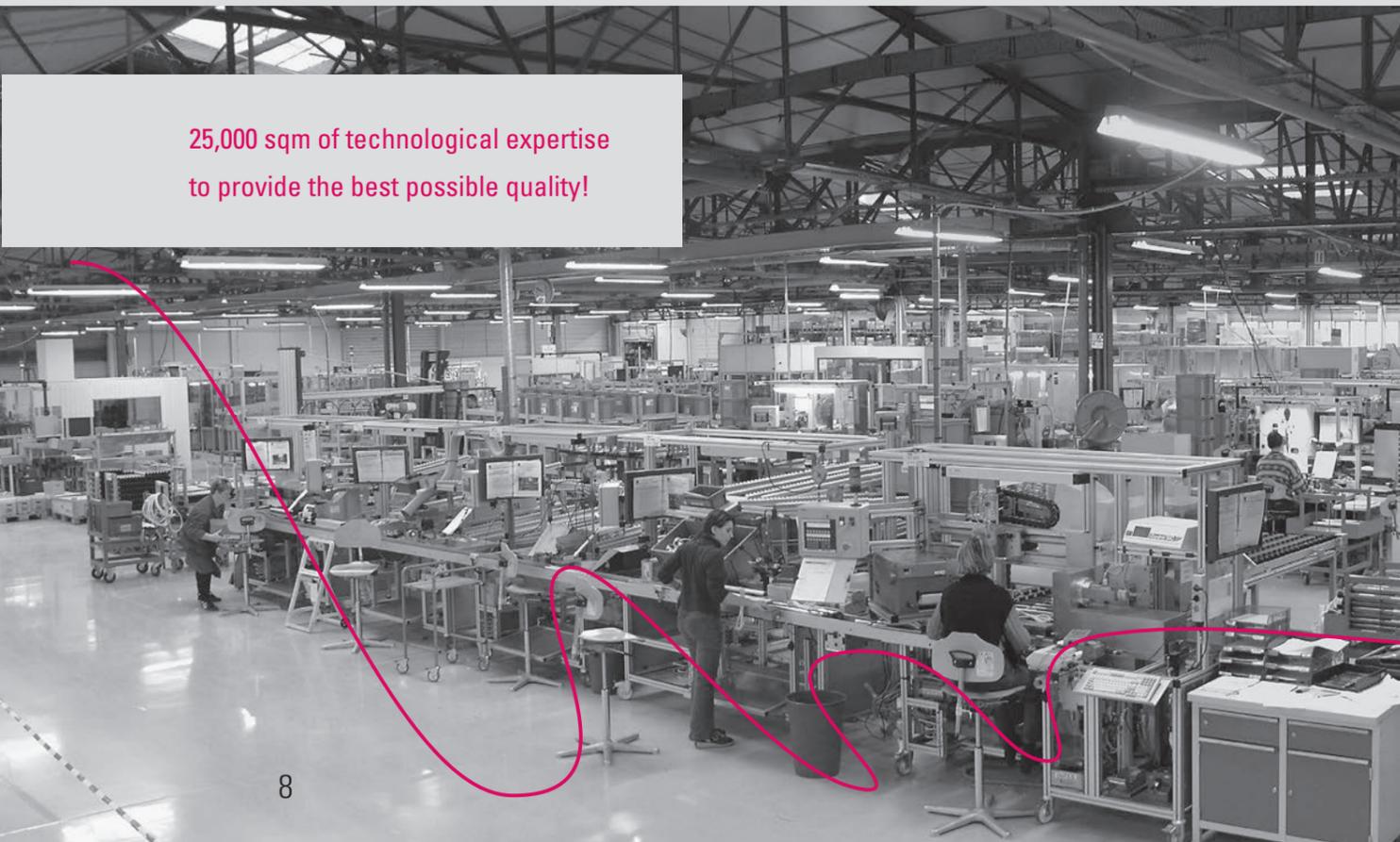
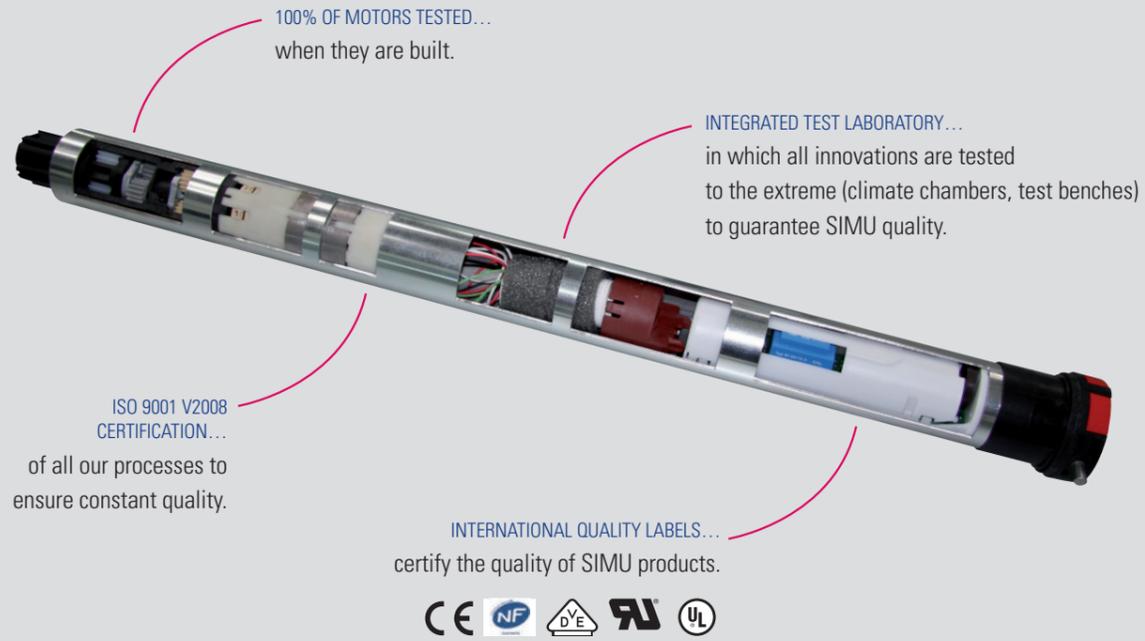
OFFERING YOU A COMPLETE RANGE OF SERVICES.



## CUSTOMER SERVICE CONTACT

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E-MAIL: [service@simu.com](mailto:service@simu.com)

# OUR COMMITMENT TO QUALITY!



25,000 sqm of technological expertise to provide the best possible quality!

# WE ARE LOCATED...

ALL AROUND THE WORLD

For international contact details, please call +33 (0)3 84 64 75 00



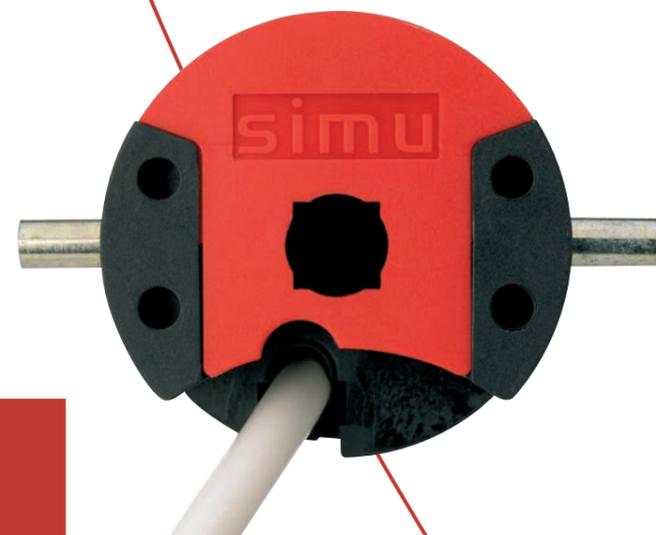
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MOTORIZED

MECHANISMS



# SELECTING THE MOTOR

## TO MATCH THE DIFFERENT TUBES...

### THE SELECTION CHARTS AND LIMITS OF USE MENTIONED IN THIS CATALOGUE

...are given for information and vary according to each installation characteristic (in particular: type of slats, friction, conditions of installation, variation in power supply voltage, torque variations due to the kinematics and spring strength of each awning).

Neither the manufacturer nor the seller can be responsible for bodywork and material damage.

Recommendations for the use of tubes require careful attention as well (see profiler's charts). Each awning and roller shutter manufacturer will have to test the products in order to determine his own selection charts.

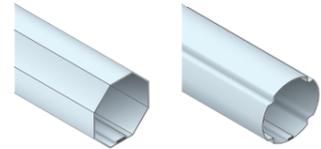
Please ask us about any specific cases.

#### NOTA

If needed, we can also make personalized selection charts according to your closure specification.

The request form is available on page 17.

### ROLLER SHUTTER WITH OCTA 40 & ZF 45 TUBE



OCTA 40

ZF 45

#### ATTENTION

Maximum fabric weight: **30 kg**

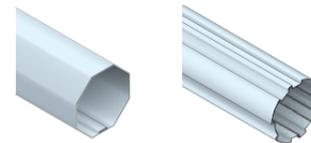
The following charts give the fabric liftable weight (in kg), according to the roller shutter characteristics and the motor torque:

| TYPE OF LINK          | SIZE OF LATH | SHUTTER HEIGHT | MOTOR TORQUE |       |       |       |       |       |  |
|-----------------------|--------------|----------------|--------------|-------|-------|-------|-------|-------|--|
|                       |              |                | 3 Nm         | 4 Nm  | 6 Nm  | 9 Nm  | 10 Nm | 13 Nm |  |
| Spring fastener       | 40           | 1,5 m          | 8 Kg         | 11 Kg | 17 Kg | 25 Kg | 28 Kg | -     |  |
|                       |              | 2,4 m          | 8 Kg         | 10 Kg | 15 Kg | 23 Kg | 25 Kg | -     |  |
|                       |              | 3 m            | 7 Kg         | 9 Kg  | 14 Kg | 21 Kg | 23 Kg | 30 Kg |  |
| V.A.S. or V.A.R. lock | 40           | 1,5 m          | 8 Kg         | 11 Kg | 16 Kg | 24 Kg | 27 Kg | -     |  |
|                       |              | 2,4 m          | 8 Kg         | 10 Kg | 15 Kg | 23 Kg | 25 Kg | -     |  |
|                       |              | 3 m            | 7 Kg         | 9 Kg  | 14 Kg | 20 Kg | 23 Kg | 29 Kg |  |
| Easylink lock         | 40           | 1,5 m          | 8 Kg         | 11 Kg | 16 Kg | 25 Kg | 28 Kg | -     |  |
|                       |              | 2,4 m          | 8 Kg         | 10 Kg | 15 Kg | 23 Kg | 26 Kg | -     |  |
|                       |              | 3 m            | 7 Kg         | 9 Kg  | 14 Kg | 21 Kg | 23 Kg | 30 Kg |  |

#### NOTA

Spring fastener: system compatible with all **Ø 40** motors **excepted with T3.5 AUTO motor.**

### ROLLER SHUTTER WITH OCTA 50 & ZF 54 TUBE



OCTA 50

ZF 54

#### ATTENTION

Maximum fabric weight: **40 kg**

The following charts give the fabric liftable weight (in kg), according to the roller shutter characteristics and the motor torque:

| TYPE OF LINK          | SIZE OF LATH | SHUTTER HEIGHT | MOTOR TORQUE |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------|--------------|----------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       |              |                | 3 Nm         | 4 Nm  | 5 Nm  | 6 Nm  | 8 Nm  | 9 Nm  | 10 Nm | 13 Nm | 15 Nm | 17 Nm | 20 Nm | 25 Nm |
| Spring fastener       | 40           | 1,5 m          | 8 Kg         | 11 Kg | 14 Kg | 16 Kg | 22 Kg | 24 Kg | 27 Kg | 35 Kg | -     | -     | -     | -     |
|                       |              | 2,4 m          | 8 Kg         | 10 Kg | 13 Kg | 15 Kg | 20 Kg | 23 Kg | 25 Kg | 33 Kg | 38 Kg | -     | -     | -     |
|                       |              | 3 m            | 7 Kg         | 9 Kg  | 12 Kg | 14 Kg | 19 Kg | 21 Kg | 24 Kg | 31 Kg | 35 Kg | 40 Kg | -     | -     |
|                       | 55           | 1,5 m          | 8 Kg         | 10 Kg | 13 Kg | 15 Kg | 20 Kg | 23 Kg | 25 Kg | 33 Kg | 38 Kg | -     | -     | -     |
|                       |              | 2,4 m          | 7 Kg         | 9 Kg  | 12 Kg | 14 Kg | 18 Kg | 21 Kg | 23 Kg | 30 Kg | 35 Kg | 39 Kg | -     | -     |
|                       |              | 3 m            | 6 Kg         | 9 Kg  | 11 Kg | 13 Kg | 17 Kg | 19 Kg | 22 Kg | 28 Kg | 32 Kg | 37 Kg | -     | -     |
| Rigid fastener        | 40           | 1,5 m          | 8 Kg         | 11 Kg | 13 Kg | 16 Kg | 21 Kg | 24 Kg | 27 Kg | 34 Kg | 40 Kg | -     | -     | -     |
|                       |              | 2,4 m          | 8 Kg         | 10 Kg | 13 Kg | 15 Kg | 20 Kg | 23 Kg | 26 Kg | 33 Kg | 38 Kg | -     | -     | -     |
|                       |              | 3 m            | 7 Kg         | 9 Kg  | 12 Kg | 14 Kg | 18 Kg | 21 Kg | 23 Kg | 30 Kg | 35 Kg | 39 Kg | -     | -     |
|                       | 55           | 1,5 m          | 7 Kg         | 10 Kg | 12 Kg | 15 Kg | 20 Kg | 22 Kg | 25 Kg | 32 Kg | 37 Kg | -     | -     | -     |
|                       |              | 2,4 m          | 7 Kg         | 9 Kg  | 12 Kg | 14 Kg | 19 Kg | 21 Kg | 24 Kg | 31 Kg | 35 Kg | 40 Kg | -     | -     |
|                       |              | 3 m            | 6 Kg         | 8 Kg  | 11 Kg | 13 Kg | 17 Kg | 19 Kg | 21 Kg | 27 Kg | 32 Kg | 36 Kg | -     | -     |
| V.A.S. or V.A.R. lock | 40           | 1,5 m          | 6 Kg         | 8 Kg  | 11 Kg | 13 Kg | 17 Kg | 19 Kg | 21 Kg | 27 Kg | 32 Kg | 36 Kg | -     | -     |
|                       |              | 2,4 m          | 6 Kg         | 8 Kg  | 10 Kg | 11 Kg | 15 Kg | 17 Kg | 19 Kg | 25 Kg | 29 Kg | 32 Kg | 38 Kg | -     |
|                       |              | 3 m            | 5 Kg         | 7 Kg  | 9 Kg  | 10 Kg | 14 Kg | 15 Kg | 17 Kg | 22 Kg | 26 Kg | 29 Kg | 34 Kg | -     |
|                       | 55           | 1,5 m          | 6 Kg         | 8 Kg  | 10 Kg | 12 Kg | 16 Kg | 18 Kg | 20 Kg | 25 Kg | 29 Kg | 33 Kg | 39 Kg | -     |
|                       |              | 2,4 m          | 5 Kg         | 7 Kg  | 9 Kg  | 11 Kg | 14 Kg | 16 Kg | 18 Kg | 23 Kg | 26 Kg | 30 Kg | 35 Kg | -     |
|                       |              | 3 m            | 5 Kg         | 6 Kg  | 8 Kg  | 9 Kg  | 12 Kg | 14 Kg | 16 Kg | 20 Kg | 23 Kg | 26 Kg | 31 Kg | 39 Kg |
| Easylink lock         | 40           | 1,5 m          | 7 Kg         | 9 Kg  | 11 Kg | 13 Kg | 18 Kg | 20 Kg | 22 Kg | 29 Kg | 33 Kg | -     | -     | -     |
|                       |              | 2,4 m          | 6 Kg         | 8 Kg  | 10 Kg | 12 Kg | 16 Kg | 18 Kg | 20 Kg | 26 Kg | 30 Kg | 34 Kg | -     | -     |
|                       |              | 3 m            | 5 Kg         | 7 Kg  | 9 Kg  | 11 Kg | 14 Kg | 16 Kg | 18 Kg | 23 Kg | 27 Kg | 31 Kg | -     | -     |
|                       | 55           | 1,5 m          | 6 Kg         | 8 Kg  | 10 Kg | 12 Kg | 16 Kg | 18 Kg | 21 Kg | 27 Kg | 31 Kg | 35 Kg | -     | -     |
|                       |              | 2,4 m          | 6 Kg         | 7 Kg  | 9 Kg  | 11 Kg | 15 Kg | 17 Kg | 19 Kg | 24 Kg | 28 Kg | 31 Kg | -     | -     |
|                       |              | 3 m            | 5 Kg         | 7 Kg  | 8 Kg  | 10 Kg | 13 Kg | 15 Kg | 17 Kg | 21 Kg | 25 Kg | 28 Kg | 33 Kg | -     |

#### NOTA

Spring and rigid fasteners: system compatible with all **Ø 40** and **Ø 50** motors

**excepted with T3.5 AUTO, T5 AUTO, T5 AUTO Short and T5 AUTO Short Hz motors.**



# MOTOR SELECTION

## REQUEST FORM

### PERSONALIZED MOTOR SELECTION CHARTS:

If needed, SIMU can provide personalized motor selection charts according to a selected motor range, the lath dimensions and weight, the typology of the roller tube and the selected fasteners.

You just need to fill out the following form and return it by email or fax:

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

fax : **+33 3 84 64 75 99**

### PERSONALIZED SELECTION CHARTS - REQUEST FORM

COMPANY .....

CONTACT NAME .....

PHONE: ..... FAX : .....

E-MAIL : .....

#### TYPE OF MOTORIZATION

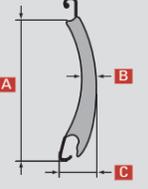
SELECT THE MOTOR AND ENCIRCLE THE TORQUES YOU USE:

| MOTOR DIAMETER | TYPE | MOTOR TORQUE |       |       |       |       |       |        |        |       |       |
|----------------|------|--------------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
|                |      | 3 Nm         | 4 Nm  | 6 Nm  | 9 Nm  | 10 Nm | 13 Nm | -      | -      | -     | -     |
| 40 mm          |      |              |       |       |       |       |       |        |        |       |       |
| 50 mm          |      | 6 Nm         | 8 Nm  | 10 Nm | 15 Nm | 20 Nm | 25 Nm | 30 Nm  | 35 Nm  | 40 Nm | 50 Nm |
| 60 mm          |      | 40 Nm        | 55 Nm | 60 Nm | 70 Nm | 80 Nm | 85 Nm | 100 Nm | 120 Nm | -     | -     |

To see the torques that are available for each type of motor, please see on the Motor chapter of the catalogue.

#### SPECIFICATION OF THE SHUTTER

PLEASE FILL THE SPECIFICATION OF THE SHUTTER YOU USE:

| TUBE  |                     | LOCK  |                               | BOTTOM LATH   |                          | LATH  |                   |                           | FABRIC  |                 |                  |                 |                         |
|---|---------------------|---|-------------------------------|---|--------------------------|---|-------------------|---------------------------|---|-----------------|------------------|-----------------|-------------------------|
|  |                     |  |                               |  |                          |  |                   |                           |  |                 |                  |                 |                         |
| Type  | Ø of the tube<br>mm | Type  | Ø of the tube with lock<br>mm | Bottom lath height<br>mm  | Bottom lath weight<br>kg | Description   | Module<br>A<br>mm | Thickness mini<br>B<br>mm | Nominale thickness<br>C<br>mm   | Max. width<br>m | Max. height<br>m | Max. area<br>m² | Shutter weight<br>kg/m² |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |
|   |                     |   |                               |   |                          |   |                   |                           |   |                 |                  |                 |                         |

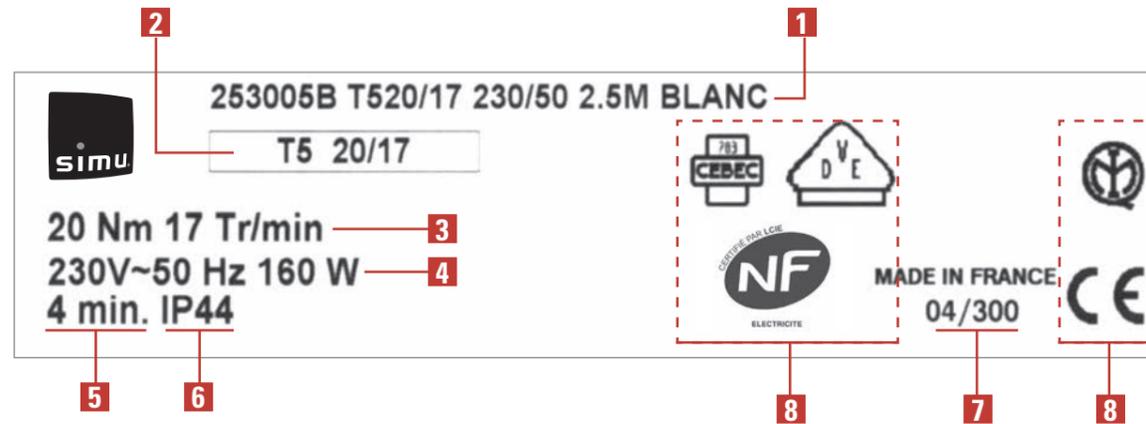
CONTACT [service@simu.com](mailto:service@simu.com)

FAX **+33 3 84 64 75 99**

## HOW TO READ

### A MOTOR STICKER?

In order to give you as much information as possible (technical data, manufacturing dates, labels), a sticker is pasted on each SIMU motor. It gives you the opportunity to locate quickly motors in workshop and it ensures the traceability of the motors. You will find below a detailed explanation of a motor sticker structure.



- 1** Product technical reference (only for internal use) and description.
- 2** Motor name, torque and speed.
- 3** Motor torque and speed.
- 4** Motor power supply, frequency and power.
- 5** Guaranteed for an operating time of 4 minutes, in a continuous operation.
- 6** Protection index against solid and liquid bodies.
- 7** Year and day of manufacturing.
- 8** Standards & Certification

# MOTOR RANGE

## SUMMARY TABLE

|                         |  | DIRECT CURRENT MOTORS  |         |         | ALTERNATIVE CURRENT MOTORS |               |         |                  |         |   |             |         |                                     |         |         |        |               |             |   |          |       |                                     |
|-------------------------|--|------------------------|---------|---------|----------------------------|---------------|---------|------------------|---------|---|-------------|---------|-------------------------------------|---------|---------|--------|---------------|-------------|---|----------|-------|-------------------------------------|
|                         |  | Ø40                    |         | Ø50     | Ø40                        |               |         | Ø50              |         |   |             |         |                                     |         | Ø60     |        |               |             |   |          |       |                                     |
|                         |  | simu-Hz RADIO          |         | WIRED   | WIRED                      | simu-Hz RADIO |         | simu-Hz RADIO    |         | simu-Hz RADIO with Built-in manual override |             |         | WIRED with Built-in manual override |         |         |        | simu-Hz RADIO |             | simu-Hz RADIO with Built-in manual override |          | WIRED | WIRED with Built-in manual override |
|                         |  | p. 22-24               |         | p. 28   | p. 30                      | p. 32         | p. 34   | p. 36            | p. 38   |   | p. 40       | p. 42   | p. 44                               | p. 46   | p. 48   | p. 50  | p. 52         | p. 54       | p. 56                                       | p. 58    | p. 60 | p. 62                               |
|                         |  | T3.5 E Hz DC / Autosun | T3.5 DC | T5 DC   | T3.5 Hz.02                 | T3.5 AUTO     | T3.5    | T5 AUTO SHORT Hz | T5 E Hz | T5 Hz.02                                    | DMI 5 Hz.01 | T5 AUTO | T5 AUTO SHORT                       | T5 E    | T5      | DMI 5  | T6 Hz.02      | DMI 6 Hz.01 | T6  | DMI 6    |       |                                     |
| POWER SUPPLY            | 230 V - 50 Hz  |                        |         |         | x                          | x             | x       | x                | x       | x   | x           | x       | x                                   | x       | x       | x      | x             | x           | x   | x        | x     |                                     |
|                         | 120 V - 60 Hz  |                        |         |         |                            |               | x       |                  |         | x   | x           |         |                                     |         | x       | x      | x             | x           | x   | x        | x     |                                     |
|                         | 12 VDC   | x                      | x       | x       |                            |               |         |                  |         |   |             |         |                                     |         |         |        |               |             |   |          |       |                                     |
|                         | 24 VDC   |                        | x       | x       |                            |               |         |                  |         |   |             |         |                                     |         |         |        |               |             |   |          |       |                                     |
| SPECIFICATION           | Range of torque (Nm)                                       | 3 à 10                 | 3 à 10  | 15 à 35 | 3 à 13                     | 4 à 13        | 3 à 13  | 6                | 8 à 50  | 8 à 50                                      | 8 à 50      | 6 à 35  | 6                                   | 8 à 50  | 8 à 50  | 8 à 50 | 60 à 120      | 60 à 120    | 40 à 120                                    | 40 à 120 |       |                                     |
|                         | Minimum Ø inside the tube (mm)                             | 37                     | 37      | 47      | 37                         | 37            | 37      | 47               | 47      | 47  | 47          | 47      | 47                                  | 47      | 47      | 47     | 60            | 60          | 60  | 60       |       |                                     |
|                         | Overall dimensions of the motor with adaptor mini/max (mm) | 471                    | 373     | 621     | 471/511                    | 471/511       | 415/471 | 387              | 621/695 | 621/695                                     | 757/797     | 521/695 | 387                                 | 621/695 | 521/621 | 617    | 758           | 878         | 718   | 704      |       |                                     |
|                         | Built-in manual override                                   |                        |         |         |                            |               |         |                  |         |   | x           |         |                                     |         |         | x      |               | x           |   | x        |       |                                     |
|                         | Parallel wiring  |                        |         |         | x                          | x**           |         | x                | x       | x   | x           | x**     | x**                                 | x**     |         |        | x             | x           |   |          |       |                                     |
| END-LIMIT SETTING       | Fixed position   | x                      | x       | x       | x                          |               | x       |                  | x       | x   | x           |         |                                     | x       | x       | x      | x             | x           | x   | x        |       |                                     |
|                         | Automatic setting and re-adjustment                        | x                      |         |         |                            |               |         | x                |         |   |             |         |                                     | x       |         |        |               |             |   |          |       |                                     |
|                         | Plug & Play motor  |                        |         |         |                            | x             |         | x                |         |   |             | x       | x                                   |         |         |        |               |             |   |          |       |                                     |
|                         | ...from the setting screws, on the motor head              |                        | x       | x       |                            |               | x       |                  |         |   | x           |         |                                     |         | x       | x      |               | x           | x   | x        |       |                                     |
|                         | ...from a specific setting switch                          |                        |         |         |                            |               |         |                  |         |   |             |         |                                     | x       |         |        |               |             |   |          |       |                                     |
| FUNCTIONS               | Intermediate position                                      | x                      |         |         | x                          |               |         | x                | x       | x   |             |         |                                     |         |         |        | x             |             |   |          |       |                                     |
|                         | Protection against frost                                   | x                      |         |         |                            | x             |         | x                | x       |   |             | x       | x                                   | x       |         |        |               |             |   |          |       |                                     |
|                         | Obstacle detection   | x                      |         |         |                            | x             |         | x                | x       |   |             | x       | x                                   | x       |         |        |               |             |   |          |       |                                     |
| SIMU-HZ COMPATIBILITY   | COLOR+ range / COLOR Multi / TIMER Easy & Multi            | x                      |         |         | x                          |               |         | x                | x       | x   | x           |         |                                     |         |         |        | x             | x           |   |          |       |                                     |
|                         | Sequential Hz transmitter / TSA+                           |                        |         |         | x*                         |               |         | x*               | x*      | x*  | x           |         |                                     |         |         |        | x*            | x           |   |          |       |                                     |
|                         | Sun sensor Hz  |                        |         |         | x                          |               |         | x                | x       | x   | x           |         |                                     |         |         |        | x             | x           |   |          |       |                                     |
|                         | Dry contact transmitter                                    | x                      |         |         | x                          |               |         | x                | x       | x   | x           |         |                                     |         |         |        | x             | x           |   |          |       |                                     |
| ACCESSORY COMPATIBILITY | Compatible with spring fasteners                           | x                      | x       | x       | x                          |               | x       |                  | x       | x   | x           |         |                                     | x       | x       | x      | x             | x           | x   | x        |       |                                     |
|                         | Compatible with locks                                      | x                      | x       | x       | x                          |               | x       |                  | x       | x   | x           |         |                                     | x       | x       | x      | x             | x           | x   | x        |       |                                     |
|                         | Stops / Locks required                                     |                        |         |         |                            | x             |         | x                |         |   |             | x       | x                                   |         |         |        |               |             |   |          |       |                                     |

x\* : cannot be used for end-limit setting

x\*\* : 3 motors maximum in parallel per switch

# T3.5 E Hz DC MOTOR

DIRECT CURRENT & RADIO ELECTRONIC, Ø 40 MM



## SELV LOW VOLTAGE POWER SUPPLY BY BATTERY

...for wet areas or if there is no of power supply.

## SIMU AUTOSUN SOLUTION

...this system is comprised of the T3.5 E Hz DC motor, a battery and a specific solar panel. It allows the installation of autonomous roller shutters (see on page 24).

## MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

## ELECTRONIC END-LIMIT SYSTEM

...4 possible setting modes of the end-limits (see below).

## STOP ON OBSTACLE FUNCTION

## FROST DETECTION FUNCTION

...the motor stops when opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

## INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

### 4 POSSIBLE SETTING MODES

**A AUTOMATIC MODE**  
 Shutters with locks and with stoppers  
 - automatic setting of the up limit position  
 - and automatic setting of the down limit position

**B SEMI-AUTOMATIC DOWN MODE**  
 Shutters with locks and without stoppers  
 - automatic setting of the down limit position  
 - and manual setting of the up limit position from the radio transmitter\*

**C SEMI-AUTOMATIC UP MODE**  
 Shutters without locks and with stoppers  
 - automatic setting of the up limit position  
 - and manual setting of the down limit position from the radio transmitter\*

**D MANUAL MODE**  
 Shutters without locks and without stoppers  
 - manual setting of the up limit position from the radio transmitter\*  
 - and manual setting of the down limit position from the radio transmitter\*

\* Sequential Hz transmitter not compatible

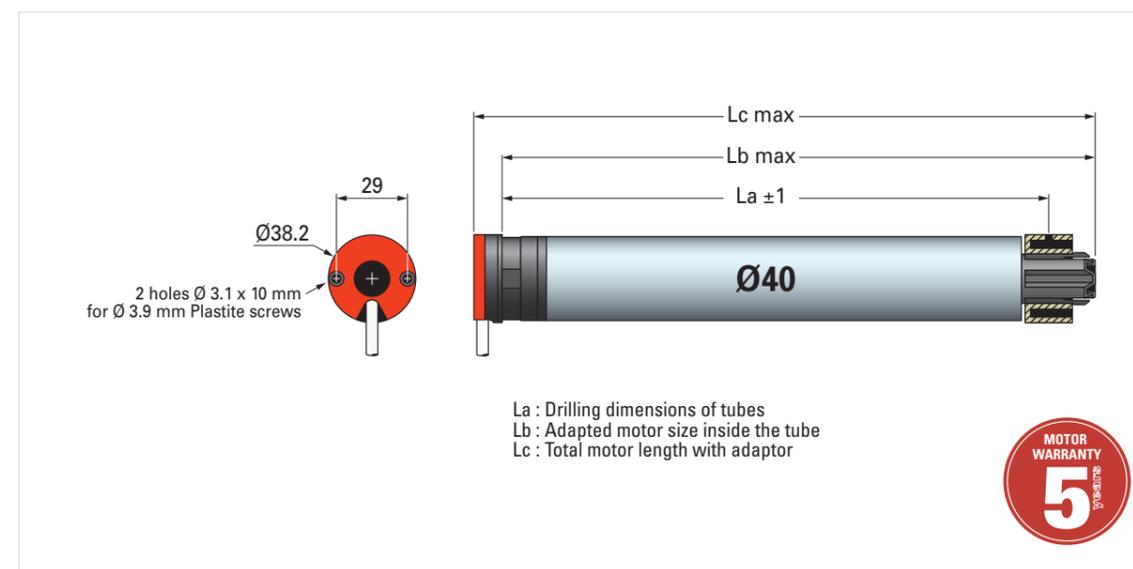
## RANGE

### POWER SUPPLY 12 VDC

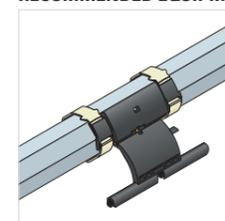
| DESCRIPTION          | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|----------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T3.5 E Hz DC - 3/23  | 3 Nm   | 23 rpm | 17 W  | 1,4 A   | 433 mm | 457 mm | 471 mm | 0,77 kg | 2006996   |
| T3.5 E Hz DC - 6/18  | 6 Nm   | 18 rpm | 26 W  | 2,2 A   | 433 mm | 457 mm | 471 mm | 0,8 kg  | 2006998   |
| T3.5 E Hz DC - 10/12 | 10 Nm  | 12 rpm | 30 W  | 2,4 A   | 433 mm | 457 mm | 471 mm | 0,8 kg  | 2007000   |

Other references are available on pages 25 and 170

## DIMENSIONS



### RECOMMENDED EQUIPMENT



Locks  
page 82 to 86



Conical stoppers  
page 163  
or stoppers integrated into the guide rails

## SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 12 Volts (Ni-MH) battery   |
| <b>END-LIMIT</b>                  | Electronic system with operating limited to 3 min.   |
| <b>END-LIMIT READJUSTMENT</b>     | every 59 cycles during 3 cycles  |
| <b>PROTECTION INDEX</b>           | IP 44  |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C  |
| <b>POWER CABLE</b>                | 0.4 meters (3x0,75 mm <sup>2</sup> wires, white H03 VVF)   |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>SECURE COMMUNICATION</b>       | Encrypted control orders<br>+ Rolling code with 16 million possible combinations   |
| <b>RANGE</b>                      | ~200m in free field<br>and ~20m through 2 reinforced concrete walls<br>(depends on the environment and on the radio pollution) |
| <b>MOTOR HEAD THICKNESS</b>       | 14 mm  |
| <b>4 CYCLES PER DAY</b>           | non consecutive  |

STANDARD

# AUTOSUN

## AUTONOMOUS SOLUTION



### SYSTEM OPERATING WITH SOLAR ENERGY

...for facade or roof roller shutters.

### COMPLETE SYSTEM

...comprised of the T3.5 E Hz DC motor (see on page 22), a battery and a specific solar panel. It allows the installation of autonomous roller shutters.

### MOTOR WITH BUILT-IN RADIO RECEIVER

### NO WIRING

...either to the electrical network or to the control points.

## OPERATING PRINCIPLE AND INTEGRATION

- No wiring required inside the house, so no disturbance to existing walls
- No need to call an electrician
- Free, clean and renewable energy

**AUTOSUN is a complete system made up of a solar panel, a battery and a direct current radio motor with electronic end-limits.**

#### 1 THE SOLAR PANEL

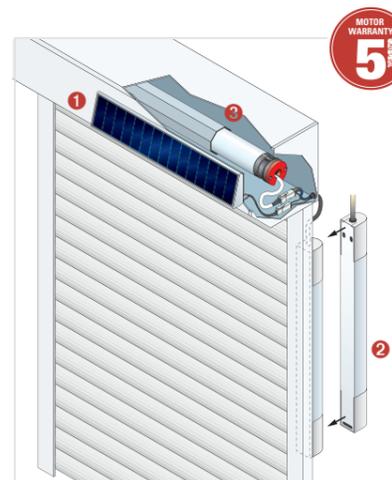
- converts solar energy into electrical energy.
- is integrated into an aluminum support.
- is fixed by bonding (self-adhesive tape) or by using specific clamps: on a renovation box or on the wall of the building with the specific clamps for wall integrated rollet shutter systems.

#### 2 THE BATTERY

- stores the energy transmitted by the solar panel.
- is connected to the solar panel and the motor.
- is integrated into an aluminum rod.
- is fixed by bonding (self-adhesive tape) or by using specific clamps: on a guide rail, or on the roller shutter box, or on the masonry.
- can be reloaded by the supply of a backup power supply.

#### 3 THE T3.5 E Hz DC MOTOR

- is connected to the battery and uses its energy to operate the shutter.
- is controlled by radio control SIMU-Hz, so no wiring required to the control points.
- is available in 3, 6 and 10 Nm.
- is equipped with a stop on obstacle and frost detection system.
- can record a user's favorite position. By pressing the STOP button, it will automatically go to that position.



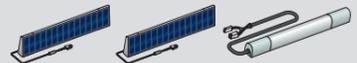
# AUTOSUN

## REFERENCES

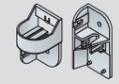
### MOTOR REFERENCES

| DESCRIPTION   | TORQUE | SPEED  | REFERENCE |         |         |
|---|--------|--------|-----------|---------|---------|
|   |        |        | x 1       | x 10    | x 100   |
|  T3.5 E Hz DC - 12 VDC | 3 Nm   | 23 rpm | 2006996   | 2006997 | -       |
| T3.5 E Hz DC - 12 VDC   | 6 Nm   | 18 rpm | 2006998   | 2006999 | 2007753 |
| T3.5 E Hz DC - 12 VDC   | 10 Nm  | 12 rpm | 2007000   | 2007001 | -       |

### REFERENCES OF THE SOLAR SETS

| DESCRIPTION   | MOTOR TORQUE | MOTOR SPEED | REFERENCE |
|---|--------------|-------------|-----------|
|    | 3 Nm         | 23 rpm      | 2007002   |
|   | 6 Nm         | 18 rpm      | 2007003   |
|   | 10 Nm        | 12 rpm      | 2007005   |
|    | 6 Nm         | 18 rpm      | 2007004   |
|   | 10 Nm        | 12 rpm      | 2007006   |
|   | -            | -           | 9014731   |
|  | -            | -           | 9014732   |

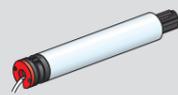
### COMPONENT AND ACCESSORY REFERENCES

| PRODUCT   | DESCRIPTION   | REFERENCE     |
|---|---|---------------|
|  | Solar panel   | 9014736       |
|  | Battery   | 9014734       |
|  | Set of 10 clamps for solar panel on facade                        | 9015562 (x10) |
|  | Set of 10 clamps for AUTOSUN battery fixing                       | 9017661 (x10) |
|  | Wire for an assembly with 2 solar panels                          | 5050240A      |
|  | Back up power supply (100/240 VAC - 50/60 Hz) for inside use only | 9014738       |

# AUTOSUN

## AUTONOMOUS SOLUTION

### SPECIFICATION



See the MOTORS chapter on page 22



**DELIVERED VOLTAGE** 95,5 mA maxi  
**PROTECTION INDEX** IP X4  
**FIXING** on renovation box or or facade with specific clamps (see on page 25)  
**DIMENSIONS** 500 x 47 x 20 mm



**TECHNOLOGY** NI-MH  
**NOMINAL VOLTAGE** 12 Volts  
**CAPACITY** 2.2 Ah  
**PROTECTION INDEX** IP X4  
**AMBIENT TEMPERATURE OF USE** from -20°C to +60°C  
**LIFETIME** ± 5 years  
**DIMENSIONS** 503 x 27 x 30 mm  
**WEIGHT** 790 g

# AUTOSUN

## SELECTION CHARTS

The composition of an AUTOSUN system has to fit to the geographic zone of installation and to the roller shutter orientation. Only one solar panel will be necessary in sunny areas, whereas 2 solar panels will be necessary in fairly or not very sunny areas to ensure an optimal operation. The following maps and charts indicate the number of solar panels you have to use according to the geographic area and orientation of the installation.

These maps only show areas for which AUTOSUN has been studied and designed. For other areas, please, consult us.

### IN EUROPE



| MOTOR TORQUE | EAST / WEST / SOUTH ORIENTATION area 1 | NORTH ORIENTATION area 2 | NORTH ORIENTATION area 1 and area 2 |
|--------------|--|--------------------------|-------------------------------------|
| 3 Nm         | 1 solar panel                          | 1 solar panel            | 1 solar panel                       |
| 6 Nm         | 1 solar panel                          | 1 solar panel            | 2 solar panels                      |
| 10 Nm        | 1 solar panel                          | 2 solar panels           | 2 solar panels*                     |

\* 1 cycle per day to the maximum

### IN USA (EXCEPT IN ALASKA), TURKEY AND THE LEBANON



| MOTOR TORQUE | EAST / WEST / SOUTH ORIENTATION | NORTH ORIENTATION |
|--------------|---------------------------------|-------------------|
| 3 Nm         | 1 solar panel                   | 1 solar panel     |
| 6 Nm         | 1 solar panel                   | 2 solar panels    |
| 10 Nm        | 2 solar panels                  | 2 solar panels*   |

\* 1 cycle per day to the maximum

### IN AUSTRALIA



| MOTOR TORQUE | EAST / WEST / NORTH ORIENTATION | SOUTH ORIENTATION |
|--------------|---------------------------------|-------------------|
| 3 Nm         | 1 solar panel                   | 1 solar panel     |
| 6 Nm         | 1 solar panel                   | 2 solar panels    |
| 10 Nm        | 1 solar panel                   | 2 solar panels*   |

\* 1 cycle per day to the maximum

# T3.5 DC MOTOR

DIRECT CURRENT WIRED, Ø 40 MM



SELV LOW VOLTAGE POWER SUPPLIED BY BATTERY OR NETWORK + TRANSFORMER

...for wet areas or if there is no of power supply.

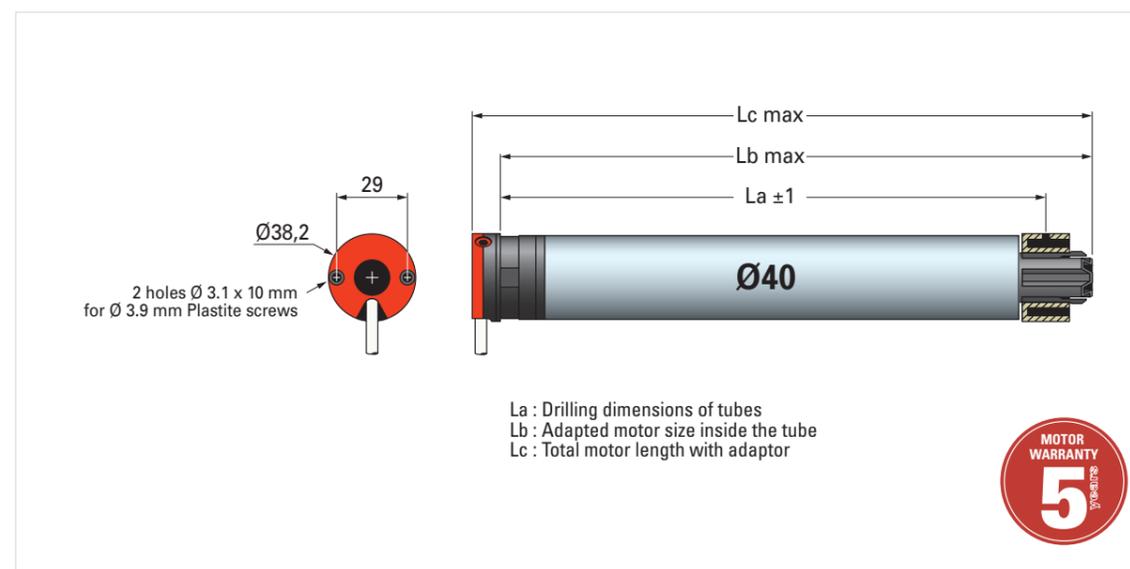
PROGRESSIVE END-LIMIT SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

EASY WIRING

...no earth connection required.

## DIMENSIONS



## RANGE

### POWER SUPPLY 12 VDC

| DESCRIPTION            | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE      |
|------------------------|--------|--------|-------|---------|--------|--------|--------|---------|----------------|
| <b>T3.5 DC - 3/23</b>  | 3 Nm   | 23 rpm | 17 W  | 1,4 A   | 335 mm | 359 mm | 373 mm | 0,82 kg | <b>2006973</b> |
| <b>T3.5 DC - 6/18</b>  | 6 Nm   | 18 rpm | 26 W  | 2,2 A   | 335 mm | 359 mm | 373 mm | 0,85 kg | <b>2006975</b> |
| <b>T3.5 DC - 10/12</b> | 10 Nm  | 12 rpm | 30 W  | 2,4 A   | 335 mm | 359 mm | 373 mm | 0,85 kg | <b>2006977</b> |

Other references are available on page 170

### POWER SUPPLY 24 VDC

| DESCRIPTION            | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE      |
|------------------------|--------|--------|-------|---------|--------|--------|--------|---------|----------------|
| <b>T3.5 DC - 3/28</b>  | 3 Nm   | 28 rpm | 22 W  | 0,9 A   | 335 mm | 359 mm | 373 mm | 0,82 kg | <b>2006974</b> |
| <b>T3.5 DC - 6/18</b>  | 6 Nm   | 18 rpm | 26 W  | 1,05 A  | 335 mm | 359 mm | 373 mm | 0,85 kg | <b>2006976</b> |
| <b>T3.5 DC - 10/12</b> | 10 Nm  | 12 rpm | 29 W  | 1,2 A   | 335 mm | 359 mm | 373 mm | 0,85 kg | <b>2006978</b> |

Other references are available on page 170

## SPECIFICATION

|                                    |   |
|------------------------------------|---|
| <b>POWER SUPPLY</b>                | 12 VDC ±3V or 24 VDC ±6V                                  |
| <b>PROGRESSIVE END-LIMIT</b>       | with a capacity of 40 rounds                              |
| <b>PROTECTION INDEX</b>            | IP 44   |
| <b>AMBIENT TEMPERATURE OF USE</b>  | from -10°C to +40°C and exceptionally from -20°C to +60°C |
| <b>POWER CABLE</b>                 | 2.5 meters (2x0,75 mm <sup>2</sup> wires, white H05 VVF)  |
| <b>OPERATING TIME OF THE MOTOR</b> | limited to 5 min./hour                                    |
| <b>MOTOR HEAD THICKNESS</b>        | 14 mm   |
| <b>4 CYCLES PER DAY</b>            | non consecutive   |

STANDARD

# T5 DC MOTOR

DIRECT CURRENT WIRED, Ø 50 MM



SELV LOW VOLTAGE POWER SUPPLIED BY BATTERY OR NETWORK + TRANSFORMER

...for wet areas or if there is no of power supply.

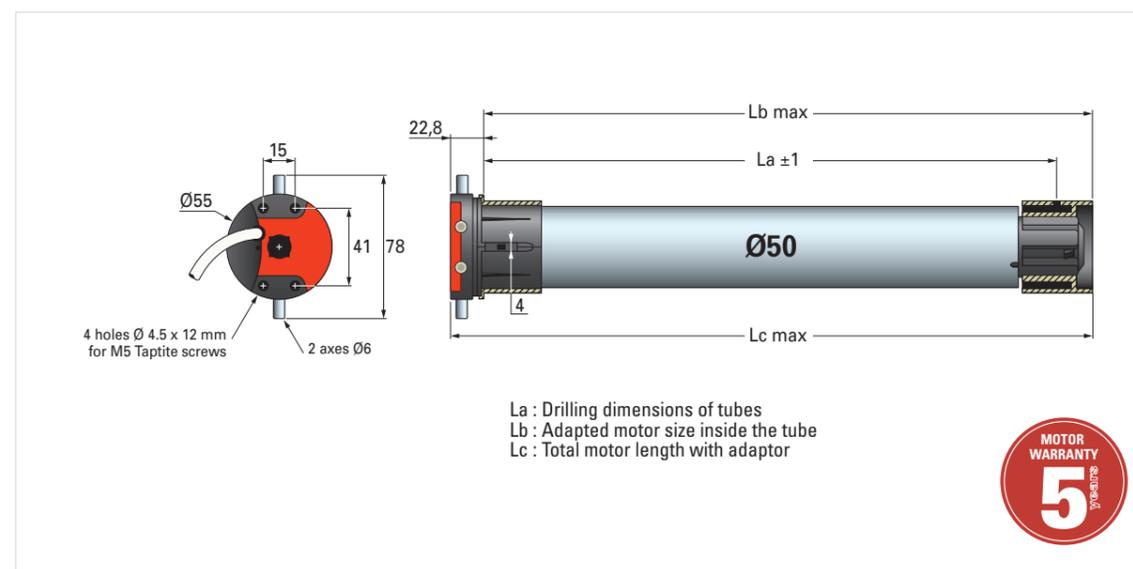
PROGRESSIVE END-LIMIT SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

EASY WIRING

...no earth connection required.

## DIMENSIONS



## RANGE

### POWER SUPPLY 12 VDC

| DESCRIPTION          | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE      |
|----------------------|--------|--------|-------|---------|--------|--------|--------|---------|----------------|
| <b>T5 DC - 15/14</b> | 15 Nm  | 14 rpm | 61 W  | 5,1 A   | 585 mm | 598 mm | 621 mm | 1,8 kg  | <b>2004492</b> |
| <b>T5 DC - 20/10</b> | 20 Nm  | 10 rpm | 59 W  | 4,9 A   | 585 mm | 598 mm | 621 mm | 1,81 kg | <b>2004493</b> |
| <b>T5 DC - 35/7</b>  | 35 Nm  | 7 rpm  | 58 W  | 4,8 A   | 585 mm | 598 mm | 621 mm | 1,84 kg | <b>2004494</b> |

### POWER SUPPLY 24 VDC

| DESCRIPTION          | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE      |
|----------------------|--------|--------|-------|---------|--------|--------|--------|---------|----------------|
| <b>T5 DC - 15/14</b> | 15 Nm  | 14 rpm | 62 W  | 2,6 A   | 585 mm | 598 mm | 621 mm | 1,8 kg  | <b>2004495</b> |
| <b>T5 DC - 20/10</b> | 20 Nm  | 10 rpm | 62 W  | 2,6 A   | 585 mm | 598 mm | 621 mm | 1,81 kg | <b>2004496</b> |
| <b>T5 DC - 35/7</b>  | 35 Nm  | 7 rpm  | 55 W  | 2,3 A   | 585 mm | 598 mm | 621 mm | 1,84 kg | <b>2004497</b> |

## SPECIFICATION

|                                   |   |
|-----------------------------------|---|
| <b>POWER SUPPLY</b>               | 12 Volts or 24 Volts                                      |
| <b>PROGRESSIVE END-LIMIT</b>      | with a capacity of 28 rounds                              |
| <b>PROTECTION INDEX</b>           | IP 44   |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C |
| <b>POWER CABLE</b>                | 2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VVF)  |
| <b>BASE DIAMETER OF THE CROWN</b> | for Ø50 x 1.5 mm round tube                               |
| <b>MOTOR HEAD THICKNESS</b>       | 22.8 mm   |
| <b>4 CYCLES PER DAY</b>           | non consecutive   |

STANDARD

# T3.5 Hz.02 MOTOR

RADIO ELECTRONIC, Ø 40 MM



MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

ELECTRONIC END-LIMIT SYSTEM

REMOTE SETTING OF THE UP AND DOWN END-LIMITS

...from a SIMU-Hz transmitter (excepted a sequential Hz transmitter).

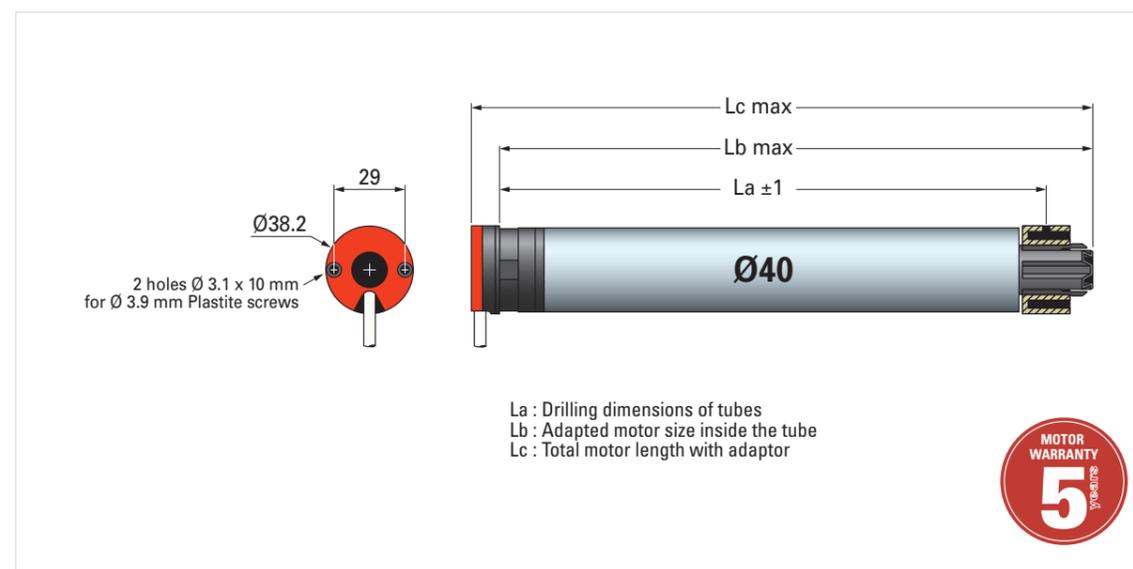
INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

CLASS 2 MOTOR

...no earth connection required.

## DIMENSIONS



## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION       | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T3.5 Hz.02 - 3/25 | 3 Nm   | 25 rpm | 90 W  | 0,4 A   | 473 mm | 497 mm | 511 mm | 1,14 kg | 2006285   |
| T3.5 Hz.02 - 4/12 | 4 Nm   | 12 rpm | 75 W  | 0,35 A  | 433 mm | 457 mm | 471 mm | 1,07 kg | 2006287   |
| T3.5 Hz.02 - 9/12 | 9 Nm   | 12 rpm | 105 W | 0,5 A   | 473 mm | 497 mm | 511 mm | 1,25 kg | 2006291   |
| T3.5 Hz.02 - 13/8 | 13 Nm  | 8 rpm  | 100 W | 0,5 A   | 473 mm | 497 mm | 511 mm | 1,27 kg | 2006293   |

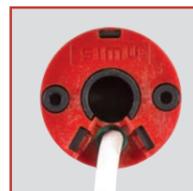
Other references are available on pages 170-171

## SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 230 Volts - 50 Hz  |
| <b>THERMAL CUT-OUT</b>            | 4 minutes  |
| <b>END-LIMIT</b>                  | Electronic system with operating limited to 3 min.   |
| <b>PROTECTION INDEX</b>           | IP 44  |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C  |
| <b>POWER CABLE</b>                | 3 meters (2x0.75mm <sup>2</sup> wires, white H05 VVF and H05 RRF)  |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>SECURE COMMUNICATION</b>       | Encrypted control orders<br>+ Rolling code with 16 million possible combinations   |
| <b>RANGE</b>                      | ~200m in free field<br>and ~20m through 2 reinforced concrete walls<br>(depends on the environment and on the radio pollution) |
| <b>MOTOR HEAD THICKNESS</b>       | 14 mm  |
| <b>4 CYCLES PER DAY</b>           | non consecutive  |
| <b>INSULATION CLASS</b>           | Class II motor   |
| <b>CERTIFICATION</b>              |  |
| <b>&amp; STANDARD</b>             |  |

# T3.5 AUTO MOTOR

WIRED ELECTRONIC, Ø 40 MM



## AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS

...the roller shutter must be equipped with up and down stoppers.

## STOP ON OBSTACLE FUNCTION

...the motor stops when closing in the case of an obstruction.

## FROST DETECTION FUNCTION

...the motor stops when opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

## PERMANENT READJUSTMENT OF END-LIMITS

...thanks to the self-learning and constant revising of the up and down end-limit positions. It adapts thus to the variations in length of the shutter curtain over time.

## CLASS 2 MOTOR

...no earth connection required.

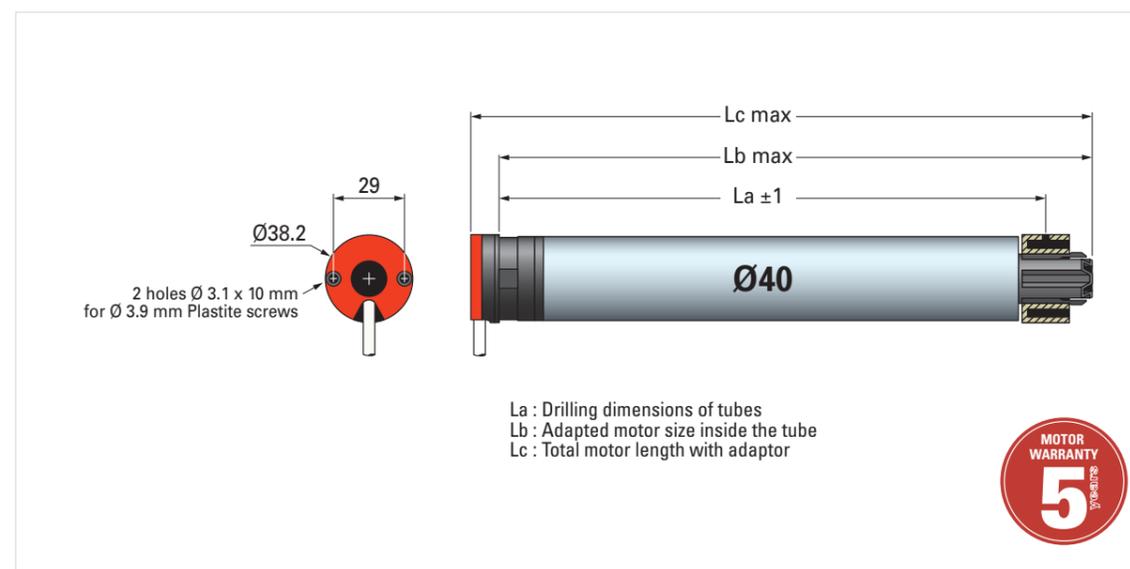
## RANGE

### POWER SUPPLY 230V - 50 Hz

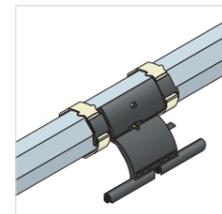
| DESCRIPTION      | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T3.5 AUTO - 4/12 | 4 Nm   | 12 rpm | 75 W  | 0,35 A  | 433 mm | 457 mm | 471 mm | 1,03 kg | 2007356   |
| T3.5 AUTO - 9/12 | 9 Nm   | 12 rpm | 105 W | 0,5 A   | 473 mm | 497 mm | 511 mm | 1,2 kg  | 2007357   |
| T3.5 AUTO - 13/8 | 13 Nm  | 8 rpm  | 100 W | 0,5 A   | 473 mm | 497 mm | 511 mm | 1,23 kg | 2007358   |

Other references are available on page 171

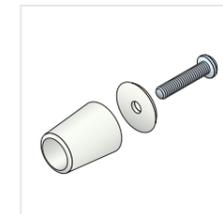
## DIMENSIONS



## REQUIRED EQUIPMENT



Locks  
page 82 to 86



Conical stoppers  
page 163  
or stoppers integrated  
into the guide rails

## SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 230 Volts - 50 Hz  |
| <b>THERMAL CUT-OUT</b>            | 4 minutes  |
| <b>END-LIMIT</b>                  | Electronic system with operating limited to 3 min.<br>The readjustment is automatic and permanent. |
| <b>PROTECTION INDEX</b>           | IP 44  |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C  |
| <b>POWER CABLE</b>                | 2.5 meters (4x0,75 mm <sup>2</sup> wires, white H03 VVF)   |
| <b>MOTOR HEAD THICKNESS</b>       | 14 mm  |
| <b>4 CYCLES PER DAY</b>           | non consecutive  |
| <b>INSULATION CLASS</b>           | Class II motor <input type="checkbox"/>  |
| <b>CERTIFICATION</b>              | NF   |
| <b>&amp; STANDARD</b>             | CE   |

# T3.5 MOTOR

## WIRED, Ø 40 MM



PROGRESSIVE END-LIMIT SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

### RANGE

#### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T3.5 - 3/25 | 3 Nm   | 25 rpm | 90 W  | 0,4 A   | 433 mm | 457 mm | 471 mm | 1,12 kg | 2004356   |
| T3.5 - 4/12 | 4 Nm   | 12 rpm | 75 W  | 0,35 A  | 377 mm | 401 mm | 415 mm | 1,02 kg | 2004352   |
| T3.5 - 6/12 | 6 Nm   | 12 rpm | 90 W  | 0,4 A   | 433 mm | 457 mm | 471 mm | 1,11 kg | 2004359   |
| T3.5 - 9/12 | 9 Nm   | 12 rpm | 105 W | 0,5 A   | 433 mm | 457 mm | 471 mm | 1,22 kg | 2004362   |
| T3.5 - 13/8 | 13 Nm  | 8 rpm  | 100 W | 0,5 A   | 433 mm | 457 mm | 471 mm | 1,25 kg | 2004367   |

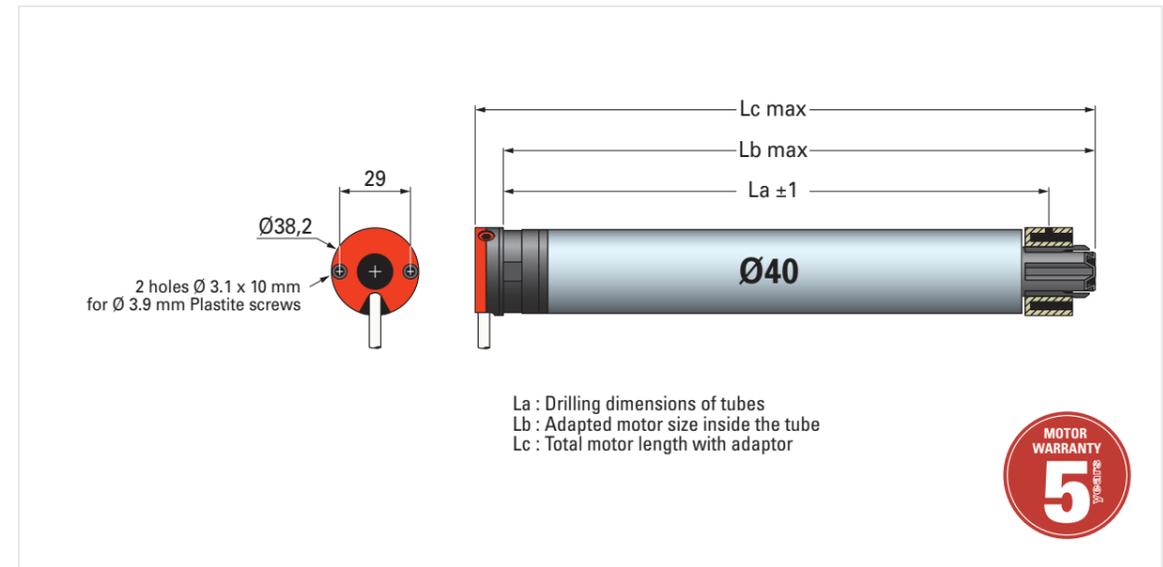
Other references are available on page 171

#### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T3.5 - 4/30 | 4 Nm   | 30 rpm | 100 W | 0,95 A  | 433 mm | 457 mm | 471 mm | 1,07 kg | 2004351   |
| T3.5 - 6/14 | 6 Nm   | 14 rpm | 105 W | 0,95 A  | 433 mm | 457 mm | 471 mm | 1,16 kg | 2004371   |
| T3.5 - 9/14 | 9 Nm   | 14 rpm | 135 W | 1,2 A   | 433 mm | 457 mm | 471 mm | 1,2 kg  | 2004372   |

Other references are available on page 171

### DIMENSIONS



### SPECIFICATION

- POWER SUPPLY** 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)
- THERMAL CUT-OUT** 4 minutes (230V) or 5 minutes (120V)
- PROGRESSIVE END-LIMIT** with a capacity of 40 rounds
- PROTECTION INDEX** IP 44
- AMBIENT TEMPERATURE OF USE** from -10°C to +40°C and exceptionally from -20°C to +60°C
- POWER CABLE 230 V** 2.5 meters (4x0,75 mm<sup>2</sup> wires, white H05 VVF)
- POWER CABLE 120 V** 2.5 meters (4xAWG19 wires, white 05 VVF)
- MOTOR HEAD THICKNESS** 14 mm
- 4 CYCLES PER DAY** non consecutive
- INSULATION CLASS** Class I motor

**CERTIFICATION & STANDARD**

# T5 AUTO SHORT Hz MOTOR

## SHORT & RADIO ELECTRONIC, Ø 50 MM



### SIMU-HZ RADIO RECEIVER

...integrated in the deported electronic plate.

### AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS

...the roller shutter must be equipped with up and down stoppers.

### MOTOR SUITABLE FOR SHORT WIDTH ROLLER SHUTTERS

...thanks to its length of only 387mm, including the adaptor.

### STOP ON OBSTACLE FUNCTION

...the motor stops when closing in the case of an obstruction.

### FROST DETECTION FUNCTION

...the motor stops when opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

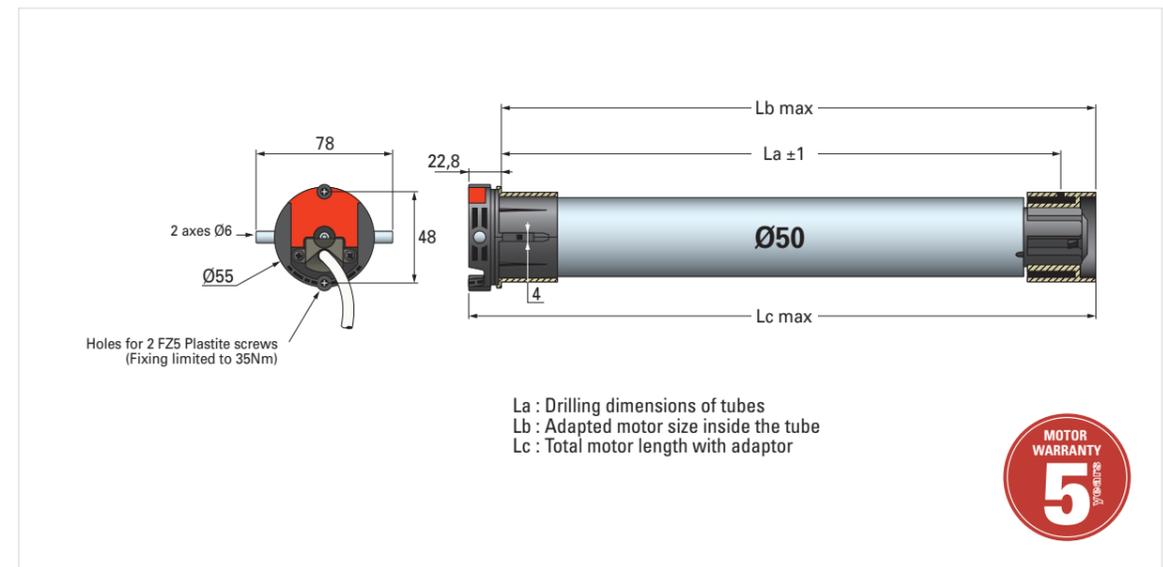
### INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

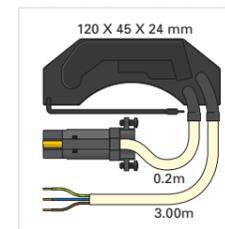
### PERMANENT READJUSTMENT OF END-LIMITS

...thanks to the self-learning and constant revising of the up and down end-limit positions. It adapts thus to the variations in length of the shutter curtain over time.

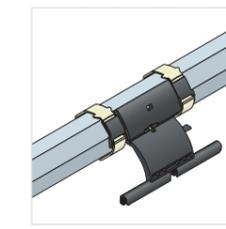
## DIMENSIONS



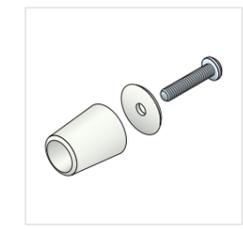
### DEPORTED ELECTRONIC PLATE



### REQUIRED EQUIPMENT



Locks  
page 82 to 86



Conical stoppers  
page 163  
or stoppers integrated  
into the guide rails

## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION      | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T5 AUTO Short Hz | 6 Nm   | 17 rpm | 90 W  | 0,4 A   | 351 mm | 364 mm | 387 mm | 1,63 kg | 2006744   |

Other references are available on page 171

## SPECIFICATION

|                                     |   |
|-------------------------------------|---|
| <b>POWER SUPPLY</b>                 | 230 Volts - 50 Hz   |
| <b>THERMAL CUT-OUT</b>              | 4 minutes   |
| <b>END-LIMIT</b>                    | Electronic system integrated in the deported plate with operating limited to 3min. The readjustment is automatic and permanent. |
| <b>PROTECTION INDEX</b>             | IP 44   |
| <b>AMBIENT TEMPERATURE OF USE</b>   | from -10°C to +40°C and exceptionally from -20°C to +60°C   |
| <b>POWER CABLE</b>                  | 3 meters (3x0.75 mm <sup>2</sup> wires, white H05 VVF)  |
| <b>RADIO FREQUENCY</b>              | 433.42 MHz  |
| <b>SECURE COMMUNICATION</b>         | Encrypted control orders<br>+ Rolling code with 16 million possible combinations  |
| <b>RANGE</b>                        | ~200m in free field and ~20m through 2 reinforced concrete walls (depends on the environment and on the radio pollution)        |
| <b>BASE DIAMETER OF THE CROWN</b>   | for Ø50 x 1.5 mm round tube   |
| <b>MOTOR HEAD THICKNESS</b>         | 22.8 mm   |
| <b>4 CYCLES PER DAY</b>             | non consecutive   |
| <b>INSULATION CLASS</b>             | Class I motor   |
| <b>CERTIFICATION &amp; STANDARD</b> | NF, DVE, CE   |

# T5 E Hz MOTOR

RADIO ELECTRONIC, Ø 50 MM



simu-Hz  
Radio System

MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

ELECTRONIC END-LIMIT SYSTEM

4 possible setting modes of the end-limits (see below).

STOP ON OBSTACLE FUNCTION

...the motor stops when closing in the case of an obstruction.

FROST DETECTION FUNCTION

...the motor stops when opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

INTERMEDIATE POSITION FUNCTION

...It is possible to record a user's favorite position.

## 4 POSSIBLE SETTING MODES

**A AUTOMATIC MODE**  
Shutters **with locks and with stoppers**  
- automatic setting of the up limit position  
- and automatic setting of the down limit position

**B SEMI-AUTOMATIC DOWN MODE**  
Shutters **with locks and without stoppers**  
- automatic setting of the down limit position  
- and manual setting of the up limit position from the radio transmitter\*

**C SEMI-AUTOMATIC UP MODE**  
Shutters **without locks and with stoppers**  
- automatic setting of the up limit position  
- and manual setting of the down limit position from the radio transmitter\*

**D MANUAL MODE**  
Shutters **without locks and without stoppers**  
- manual setting of the up limit position from the radio transmitter\*  
- and manual setting of the down limit position from the radio transmitter\*

\* Sequential Hz transmitter not compatible

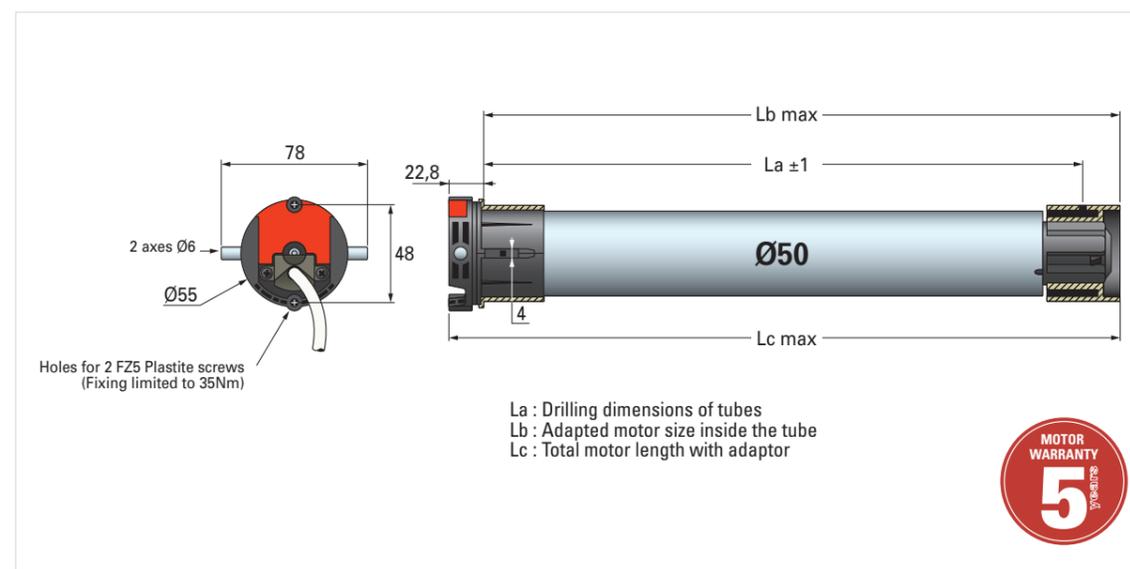
## RANGE

POWER SUPPLY 230V - 50 Hz

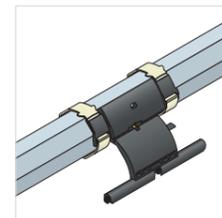
| DESCRIPTION     | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-----------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T5 E Hz - 8/17  | 8 Nm   | 17 rpm | 100 W | 0,45 A  | 585 mm | 598 mm | 621 mm | 1,96 kg | 2005366   |
| T5 E Hz - 10/17 | 10 Nm  | 17 rpm | 120 W | 0,5 A   | 585 mm | 598 mm | 621 mm | 2,01 kg | 2005367   |
| T5 E Hz - 15/17 | 15 Nm  | 17 rpm | 140 W | 0,65 A  | 585 mm | 598 mm | 621 mm | 2,27 kg | 2005368   |
| T5 E Hz - 20/17 | 20 Nm  | 17 rpm | 160 W | 0,75 A  | 659 mm | 672 mm | 695 mm | 2,39 kg | 2005369   |
| T5 E Hz - 25/17 | 25 Nm  | 17 rpm | 170 W | 0,8 A   | 659 mm | 672 mm | 695 mm | 2,48 kg | 2005370   |
| T5 E Hz - 35/17 | 35 Nm  | 17 rpm | 240 W | 1,1 A   | 659 mm | 672 mm | 695 mm | 2,67 kg | 2005371   |
| T5 E Hz - 50/12 | 50 Nm  | 12 rpm | 240 W | 1,1 A   | 659 mm | 672 mm | 695 mm | 2,7 kg  | 2005372   |

Other references are available on pages 171-172

## DIMENSIONS



## RECOMMENDED EQUIPMENT



Locks  
page 82 to 86



Conical stoppers  
page 163  
or stoppers integrated into the guide rails

## SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 230 Volts - 50 Hz  |
| <b>THERMAL CUT-OUT</b>            | 4 minutes  |
| <b>END-LIMIT</b>                  | Electronic system with operating limited to 3 min.   |
| <b>END-LIMIT READJUSTMENT</b>     | every 60 cycles during 4 cycles  |
| <b>PROTECTION INDEX</b>           | IP 44  |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C  |
| <b>POWER CABLE</b>                | 2.5 or 5 meters (3x0.75 mm <sup>2</sup> wires, white H05 VVF)  |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>SECURE COMMUNICATION</b>       | Encrypted control orders<br>+ Rolling code with 16 million possible combinations   |
| <b>RANGE</b>                      | ~200m in free field and ~20m through 2 reinforced concrete walls (depends on the environment and on the radio pollution) |
| <b>BASE DIAMETER OF THE CROWN</b> | for Ø50 x 1.5 mm round tube  |
| <b>MOTOR HEAD THICKNESS</b>       | 22.8 mm  |
| <b>4 CYCLES PER DAY</b>           | non consecutive  |
| <b>INSULATION CLASS</b>           | Class I motor  |

CERTIFICATION & STANDARD   

# T5 Hz.02 MOTOR

RADIO ELECTRONIC, Ø 50 MM



MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

ELECTRONIC END-LIMIT SYSTEM

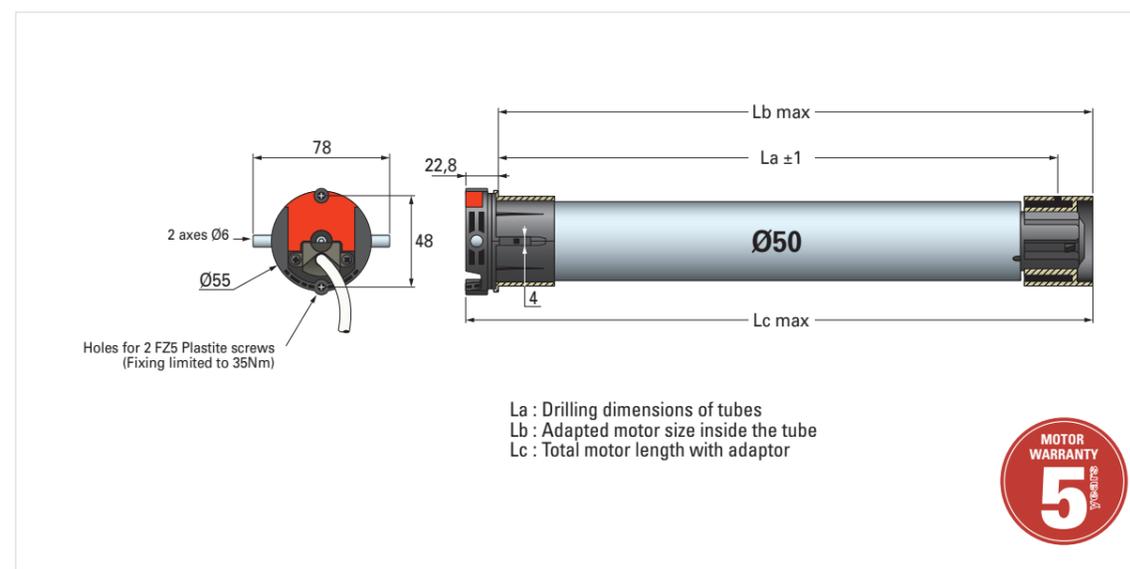
REMOTE SETTING OF THE UP AND DOWN END-LIMITS

...from a SIMU-Hz transmitter (excepted a sequential Hz transmitter).

INTERMEDIATE POSITION FUNCTION

...It is possible to record a user's favorite position.

## DIMENSIONS



## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION      | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T5 Hz.02 - 8/17  | 8 Nm   | 17 rpm | 100 W | 0,45 A  | 585 mm | 598 mm | 621 mm | 1,96 kg | 2004661   |
| T5 Hz.02 - 10/17 | 10 Nm  | 17 rpm | 120 W | 0,5 A   | 585 mm | 598 mm | 621 mm | 2,01 kg | 2004662   |
| T5 Hz.02 - 15/17 | 15 Nm  | 17 rpm | 140 W | 0,65 A  | 585 mm | 598 mm | 621 mm | 2,27 kg | 2004663   |
| T5 Hz.02 - 20/17 | 20 Nm  | 17 rpm | 160 W | 0,75 A  | 659 mm | 672 mm | 695 mm | 2,39 kg | 2005093   |
| T5 Hz.02 - 25/17 | 25 Nm  | 17 rpm | 170 W | 0,8 A   | 659 mm | 672 mm | 695 mm | 2,48 kg | 2004664   |
| T5 Hz.02 - 35/17 | 35 Nm  | 17 rpm | 240 W | 1,1 A   | 659 mm | 672 mm | 695 mm | 2,67 kg | 2004665   |
| T5 Hz.02 - 50/12 | 50 Nm  | 12 rpm | 240 W | 1,1 A   | 659 mm | 672 mm | 695 mm | 2,7 kg  | 2004666   |

Other references are available on page 172

### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION      | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T5 Hz.02 - 10/12 | 10 Nm  | 12 rpm | 80 W  | 0,7 A   | 585 mm | 598 mm | 621 mm | 2,25 kg | 2006352   |
| T5 Hz.02 - 15/18 | 15 Nm  | 18 rpm | 145 W | 1,3 A   | 585 mm | 598 mm | 621 mm | 2,3 kg  | 2005133   |
| T5 Hz.02 - 20/12 | 20 Nm  | 12 rpm | 130 W | 1,1 A   | 585 mm | 598 mm | 621 mm | 2,3 kg  | 2006353   |
| T5 Hz.02 - 25/18 | 25 Nm  | 18 rpm | 180 W | 1,6 A   | 659 mm | 672 mm | 695 mm | 2,6 kg  | 2005134   |
| T5 Hz.02 - 30/12 | 30 Nm  | 12 rpm | 170 W | 1,5 A   | 659 mm | 672 mm | 695 mm | 2,6 kg  | 2005136   |
| T5 Hz.02 - 35/18 | 35 Nm  | 18 rpm | 250 W | 2,1 A   | 659 mm | 672 mm | 695 mm | 2,9 kg  | 2005135   |
| T5 Hz.02 - 50/12 | 50 Nm  | 12 rpm | 250 W | 2,1 A   | 659 mm | 672 mm | 695 mm | 2,9 kg  | 2005137   |

Other references are available on page 172

## SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)  |
| <b>THERMAL CUT-OUT</b>            | 4 minutes (230V) or 5 minutes (120V)   |
| <b>END-LIMIT</b>                  | Electronic system with operating limited to 3 min.   |
| <b>PROTECTION INDEX</b>           | IP 44  |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C  |
| <b>POWER CABLE 230V</b>           | 2.5 or 5 meters (3x0.75mm <sup>2</sup> wires, white H05 VVF)   |
| <b>POWER CABLE 120V</b>           | 2 meters (3xAWG19 wires, white 05 VVF)   |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>SECURE COMMUNICATION</b>       | Encrypted control orders<br>+ Rolling code with 16 million possible combinations   |
| <b>RANGE</b>                      | ~200m in free field<br>and ~20m through 2 reinforced concrete walls<br>(depends on the environment and on the radio pollution) |
| <b>BASE DIAMETER OF THE CROWN</b> | for Ø50 x 1.5 mm round tube  |
| <b>MOTOR HEAD THICKNESS</b>       | 22.8 mm  |
| <b>4 CYCLES PER DAY</b>           | non consecutive  |
| <b>INSULATION CLASS</b>           | Class I motor  |

**CERTIFICATION**     
**& STANDARD** 

# DMI 5 Hz.01 MOTOR

## RADIO, Ø 50 MM



MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

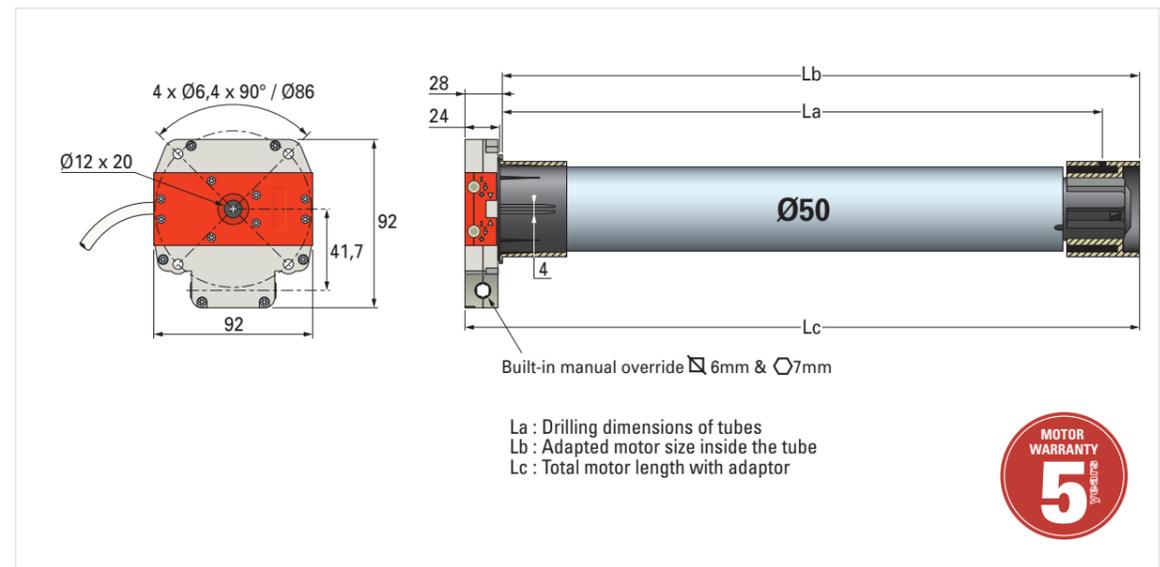
BUILT-IN MANUAL OVERRIDE

PROGRESSIVE END-LIMIT SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD  
...on either sides of the head.

COMPACT MOTOR HEAD  
...only 24mm thickness

### DIMENSIONS



### RANGE

#### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION         | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|---------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| DMI 5 Hz.01 - 10/17 | 10 Nm  | 17 rpm | 120 W | 0,5 A   | 716 mm | 729 mm | 757 mm | 2,85 kg | 2004667   |
| DMI 5 Hz.01 - 25/17 | 25 Nm  | 17 rpm | 170 W | 0,8 A   | 716 mm | 729 mm | 757 mm | 3,27 kg | 2004668   |
| DMI 5 Hz.01 - 35/17 | 35 Nm  | 17 rpm | 240 W | 1,1 A   | 756 mm | 769 mm | 797 mm | 3,44 kg | 2004669   |
| DMI 5 Hz.01 - 50/12 | 50 Nm  | 12 rpm | 240 W | 1,1 A   | 756 mm | 769 mm | 797 mm | 3,46 kg | 2004670   |

#### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION         | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|---------------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| DMI 5 Hz.01 - 15/18 | 15 Nm  | 18 rpm | 145 W | 1,3 A   | 716 mm | 729 mm | 757 mm | 3,91 kg | 2004671   |
| DMI 5 Hz.01 - 25/18 | 25 Nm  | 18 rpm | 180 W | 1,6 A   | 756 mm | 769 mm | 797 mm | 4,15 kg | 2004672   |
| DMI 5 Hz.01 - 30/12 | 30 Nm  | 12 rpm | 170 W | 1,5 A   | 756 mm | 769 mm | 797 mm | 4,2 kg  | 2004673   |
| DMI 5 Hz.01 - 35/18 | 35 Nm  | 18 rpm | 250 W | 2,1 A   | 756 mm | 769 mm | 797 mm | 4,3 kg  | 2004674   |
| DMI 5 Hz.01 - 50/12 | 50 Nm  | 12 rpm | 250 W | 2,1 A   | 756 mm | 769 mm | 797 mm | 4,4 kg  | 2004675   |

### SPECIFICATION

- POWER SUPPLY** 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)
- THERMAL CUT-OUT** 4 minutes (230V) or 5 minutes (120V)
- PROGRESSIVE END-LIMIT REDUCING RATIO** with a capacity of 30 rounds of the manual override: 27/1
- PROTECTION INDEX** IP 44
- AMBIENT TEMPERATURE OF USE** from -10°C to +40°C and exceptionally from -20°C to +60°C
- POWER CABLE 230V** 2.5 meters (3x0,75 mm<sup>2</sup> wires, white H05 VVF)
- POWER CABLE 120V** 2.5 meters (3xAWG19 wires, white H05 VVF)
- RADIO FREQUENCY** 433.42 MHz
- SECURE COMMUNICATION** Encrypted control orders  
+ Rolling code with 16 million possible combinations
- RANGE** ~200m in free field  
and ~20m through 2 reinforced concrete walls  
(depends on the environment and on the radio pollution)
- BASE DIAMETER OF THE CROWN** for Ø50 x 1.5 mm round tube
- MOTOR HEAD THICKNESS** 24 mm
- 4 CYCLES PER DAY** non consecutive
- INSULATION CLASS** Class I motor



# T5 AUTO MOTOR

WIRED ELECTRONIC, Ø 50 MM



## AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS

...the roller shutter must be equipped with up and down stoppers.

## STOP ON OBSTACLE FUNCTION

...the motor stops when closing in the case of an obstruction.

## FROST DETECTION FUNCTION

...the motor stops when opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

## PERMANENT READJUSTMENT OF END-LIMITS

...because of the constant auto-learning and revision of the up and down end-limit positions. It adapts thus to the variations in length of the shutter curtain over time.

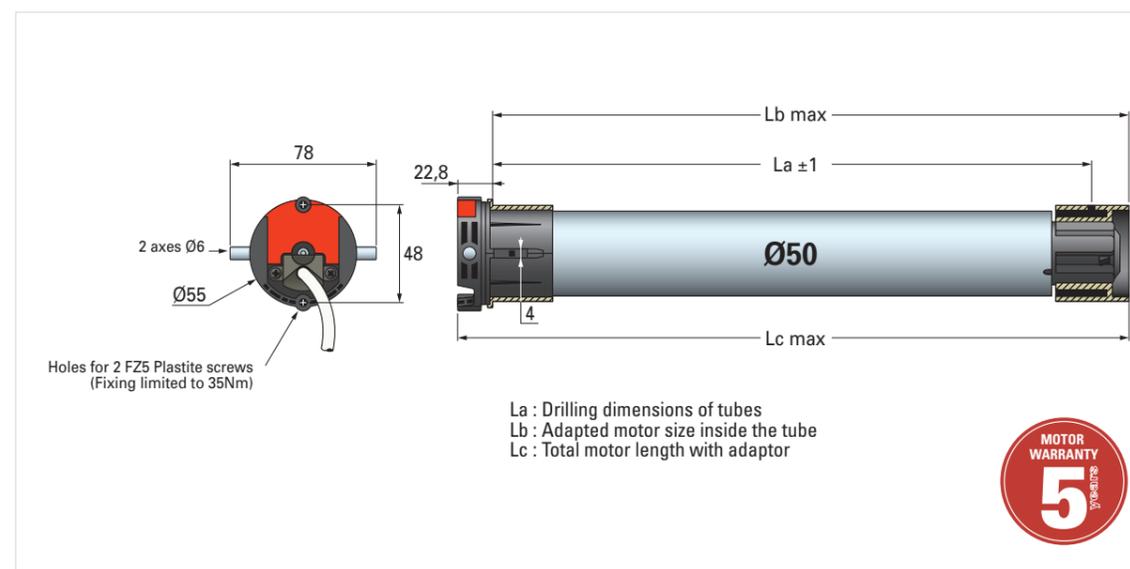
## RANGE

### POWER SUPPLY 230V - 50 Hz

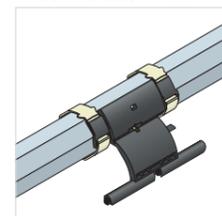
| DESCRIPTION            | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE      |
|------------------------|--------|--------|-------|---------|--------|--------|--------|---------|----------------|
| <b>T5 AUTO - 6/17</b>  | 6 Nm   | 17 rpm | 90 W  | 0,4 A   | 485 mm | 498 mm | 521 mm | 1,76 kg | <b>2006700</b> |
| <b>T5 AUTO - 10/17</b> | 10 Nm  | 17 rpm | 120 W | 0,5 A   | 485 mm | 498 mm | 521 mm | 1,83 kg | <b>2006701</b> |
| <b>T5 AUTO - 15/17</b> | 15 Nm  | 17 rpm | 140 W | 0,65 A  | 505 mm | 518 mm | 541 mm | 1,98 kg | <b>2006702</b> |
| <b>T5 AUTO - 20/17</b> | 20 Nm  | 17 rpm | 160 W | 0,75 A  | 659 mm | 672 mm | 695 mm | 2,38 kg | <b>2006703</b> |
| <b>T5 AUTO - 25/17</b> | 25 Nm  | 17 rpm | 170 W | 0,8 A   | 659 mm | 672 mm | 695 mm | 2,48 kg | <b>2006704</b> |
| <b>T5 AUTO - 35/17</b> | 35 Nm  | 17 rpm | 240 W | 1,1 A   | 659 mm | 672 mm | 695 mm | 2,58 kg | <b>2006705</b> |

Other references are available on pages 173-174

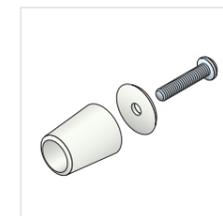
## DIMENSIONS



## REQUIRED EQUIPMENT



Locks  
page 82 to 86



Conical stoppers  
page 163  
or stoppers integrated  
into the guide rails

## SPECIFICATION

|                                     |  |
|-------------------------------------|--|
| <b>POWER SUPPLY</b>                 | 230 Volts - 50 Hz  |
| <b>THERMAL CUT-OUT</b>              | 4 minutes  |
| <b>END-LIMIT</b>                    | Electronic system with operating limited to 3 min.<br>The readjustment is automatic and permanent. |
| <b>PROTECTION INDEX</b>             | IP 44  |
| <b>AMBIENT TEMPERATURE OF USE</b>   | from -10°C to +40°C and exceptionally from -20°C to +60°C  |
| <b>POWER CABLE</b>                  | 2.5 or 5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VVF)                                      |
| <b>BASE DIAMETER OF THE CROWN</b>   | for Ø50 x 1.5 mm round tube  |
| <b>MOTOR HEAD THICKNESS</b>         | 22,8 mm  |
| <b>4 CYCLES PER DAY</b>             | non consecutive  |
| <b>INSULATION CLASS</b>             | Class I motor  |
| <b>CERTIFICATION &amp; STANDARD</b> | NF, DVE, CE  |

# T5 AUTO SHORT MOTOR

SHORT WIRED ELECTRONIC, Ø 50 MM



## AUTOMATIC SETTING OF THE UP AND DOWN END-LIMITS

...the roller shutter must be equipped with up and down stoppers.

## MOTOR SUITABLE FOR SHORT WIDTH ROLLER SHUTTERS

...thanks to its length of only 387mm, including the adaptor.

## STOP ON OBSTACLE FUNCTION

...the motor stops when closing in the case of an obstruction.

## FROST DETECTION FUNCTION

...the motor stops when opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

## PERMANENT READJUSTMENT OF END-LIMITS

...because of the constant auto-learning and revision of the up and down end-limit positions. It adapts thus to the variations in length of the shutter curtain over time.

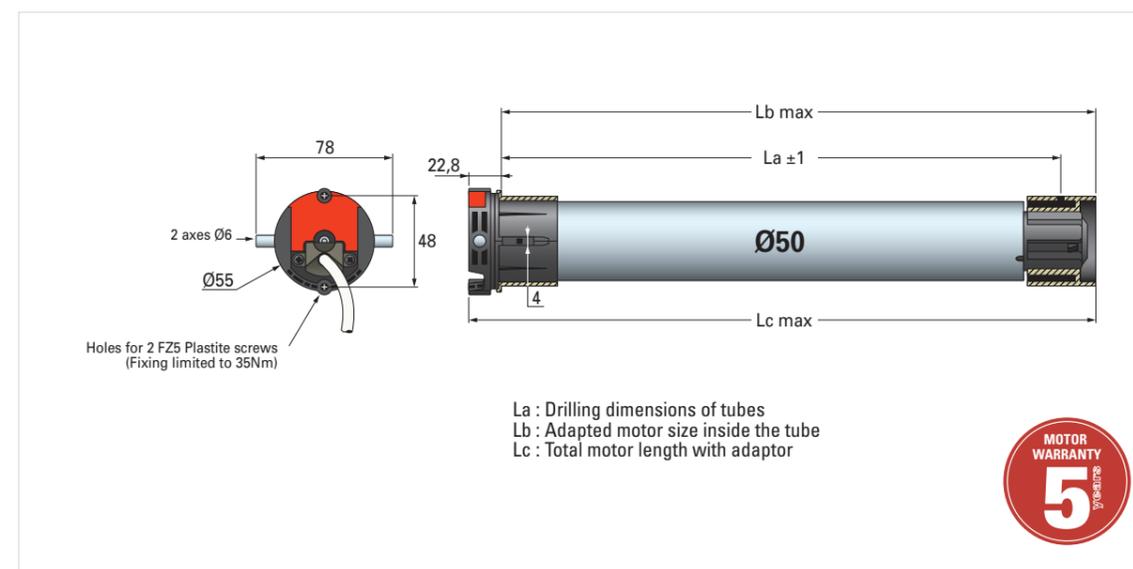
## RANGE

### POWER SUPPLY 230V - 50 Hz

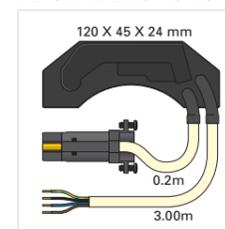
| DESCRIPTION          | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE      |
|----------------------|--------|--------|-------|---------|--------|--------|--------|---------|----------------|
| <b>T5 AUTO Short</b> | 6 Nm   | 17 rpm | 90 W  | 0,4 A   | 351 mm | 364 mm | 387 mm | 1,63 kg | <b>2006742</b> |

Other references are available on page 174

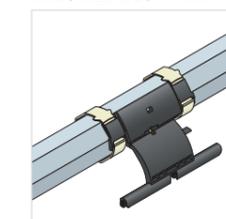
## DIMENSIONS



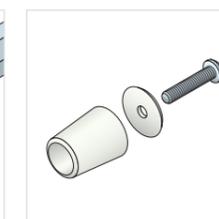
### DEPORTED ELECTRONIC PLATE



### REQUIRED EQUIPMENT



Locks  
page 82 to 86



Conical stoppers  
page 163  
or stoppers integrated into the guide rails

## SPECIFICATION

|                                   |   |
|-----------------------------------|---|
| <b>POWER SUPPLY</b>               | 230 Volts - 50 Hz   |
| <b>THERMAL CUT-OUT</b>            | 4 minutes   |
| <b>END-LIMIT</b>                  | Electronic system integrated in the deported plate with operating limited to 3min. The readjustment is automatic and permanent. |
| <b>PROTECTION INDEX</b>           | IP 44   |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C   |
| <b>POWER CABLE</b>                | 3 meters (4x0,75 mm <sup>2</sup> wires, white H05 VVF)  |
| <b>BASE DIAMETER OF THE CROWN</b> | for Ø50 x 1.5 mm round tube   |
| <b>MOTOR HEAD THICKNESS</b>       | 22.8 mm   |
| <b>4 CYCLES PER DAY</b>           | non consecutive   |
| <b>INSULATION CLASS</b>           | Class I motor   |
| <b>CERTIFICATION</b>              | NF D'E  |
| <b>&amp; STANDARD</b>             | CE  |

# T5 E MOTOR

WIRED ELECTRONIC, Ø 50 MM



## ELECTRONIC END-LIMIT SYSTEM

4 possible setting modes of the end-limits (see below).

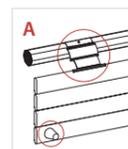
## STOP ON OBSTACLE FUNCTION

...the motor stops when closing in the case of an obstruction.

## FROST DETECTION FUNCTION

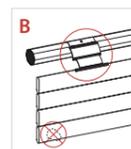
...the motor stops when opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.

### 4 POSSIBLE SETTING MODES



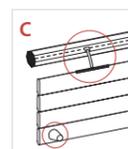
#### AUTOMATIC MODE

Shutters **with locks and with stoppers**  
 - automatic setting of the up limit position  
 - and automatic setting of the down limit position



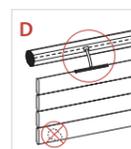
#### SEMI-AUTOMATIC DOWN MODE

Shutters **with locks and without stoppers**  
 - automatic setting of the down limit position  
 - and manual setting of the up limit position from the specific setting switch.



#### SEMI-AUTOMATIC UP MODE

Shutters **without locks and with stoppers**  
 - automatic setting of the up limit position  
 - and manual setting of the down limit position from the specific setting switch



#### MANUAL MODE

Shutters **without locks and without stoppers**  
 - manual setting of the up limit position from the specific setting switch  
 - and manual setting of the down limit position from the specific setting switch

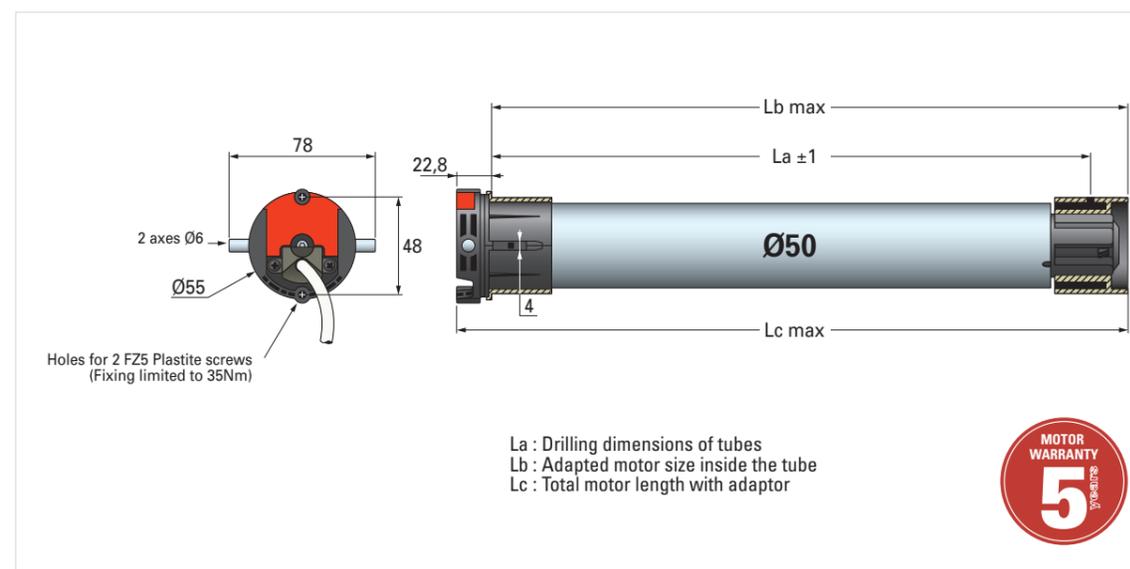
## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION  | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|--------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T5 E - 8/17  | 8 Nm   | 17 rpm | 100 W | 0,45 A  | 585 mm | 598 mm | 621 mm | 1,96 kg | 2005780   |
| T5 E - 10/17 | 10 Nm  | 17 rpm | 120 W | 0,5 A   | 585 mm | 598 mm | 621 mm | 2,01 kg | 2005781   |
| T5 E - 15/17 | 15 Nm  | 17 rpm | 140 W | 0,65 A  | 585 mm | 598 mm | 621 mm | 2,27 kg | 2005782   |
| T5 E - 20/17 | 20 Nm  | 17 rpm | 160 W | 0,75 A  | 659 mm | 672 mm | 695 mm | 2,39 kg | 2005783   |
| T5 E - 25/17 | 25 Nm  | 17 rpm | 170 W | 0,8 A   | 659 mm | 672 mm | 695 mm | 2,48 kg | 2005784   |
| T5 E - 35/17 | 35 Nm  | 17 rpm | 240 W | 1,1 A   | 659 mm | 672 mm | 695 mm | 2,67 kg | 2005785   |
| T5 E - 50/12 | 50 Nm  | 12 rpm | 240 W | 1,1 A   | 659 mm | 672 mm | 695 mm | 2,7 kg  | 2005786   |

Other references are available on page 174

## DIMENSIONS

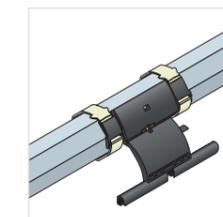


### SPECIFIC SETTING SWITCH



available on page 77

### RECOMMENDED EQUIPMENT



Locks  
page 82 to 86



Conical stoppers  
page 163  
or stoppers integrated into the guide rails

## SPECIFICATION

|                                     |   |
|-------------------------------------|---|
| <b>POWER SUPPLY</b>                 | 230 Volts - 50 Hz   |
| <b>THERMAL CUT-OUT</b>              | 4 minutes   |
| <b>END-LIMIT</b>                    | Electronic system with operating limited to 3 min.            |
| <b>END-LIMIT READJUSTMENT</b>       | every 60 cycles during 4 cycles                               |
| <b>PROTECTION INDEX</b>             | IP 44   |
| <b>AMBIENT TEMPERATURE OF USE</b>   | from -10°C to +40°C and exceptionally from -20°C to +60°C     |
| <b>POWER CABLE</b>                  | 2.5 or 5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VVF) |
| <b>BASE DIAMETER OF THE CROWN</b>   | for Ø50 x 1.5 mm round tube                                   |
| <b>MOTOR HEAD THICKNESS</b>         | 22.8 mm   |
| <b>4 CYCLES PER DAY</b>             | non consecutive   |
| <b>INSULATION CLASS</b>             | Class I motor   |
| <b>CERTIFICATION &amp; STANDARD</b> | NF, DVE, CE   |

# T5 MOTOR

WIRED, Ø 50 MM



PROGRESSIVE END-LIMIT SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

## RANGE

### POWER SUPPLY 230V - 50 Hz

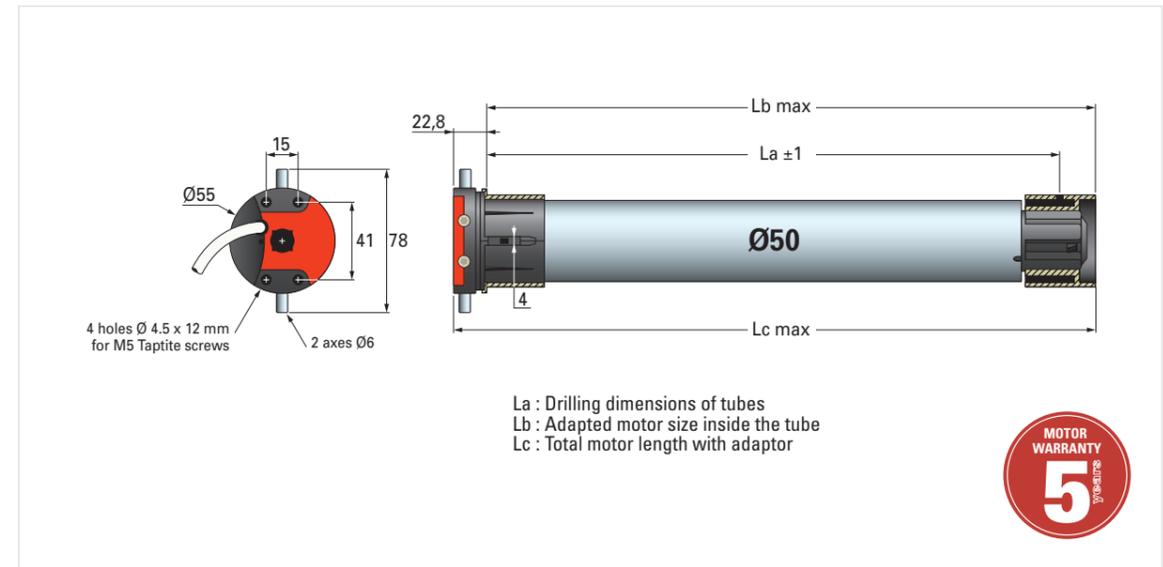
| DESCRIPTION | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T5 - 8/17   | 8 Nm   | 17 rpm | 100 W | 0,45 A  | 485 mm | 498 mm | 521 mm | 1,75 kg | 2000242   |
| T5 - 10/17  | 10 Nm  | 17 rpm | 120 W | 0,5 A   | 485 mm | 498 mm | 521 mm | 1,78 kg | 2000268   |
| T5 - 15/17  | 15 Nm  | 17 rpm | 140 W | 0,65 A  | 485 mm | 498 mm | 521 mm | 1,93 kg | 2000295   |
| T5 - 20/17  | 20 Nm  | 17 rpm | 160 W | 0,75 A  | 585 mm | 598 mm | 621 mm | 2,2 kg  | 2000322   |
| T5 - 25/17  | 25 Nm  | 17 rpm | 170 W | 0,8 A   | 585 mm | 598 mm | 621 mm | 2,3 kg  | 2000348   |
| T5 - 30/17  | 30 Nm  | 17 rpm | 240 W | 1,1 A   | 585 mm | 598 mm | 621 mm | 2,47 kg | 2000371   |
| T5 - 35/17  | 35 Nm  | 17 rpm | 240 W | 1,1 A   | 585 mm | 598 mm | 621 mm | 2,47 kg | 2000392   |
| T5 - 40/12  | 40 Nm  | 12 rpm | 240 W | 1,1 A   | 585 mm | 598 mm | 621 mm | 2,5 kg  | 2000412   |
| T5 - 50/12  | 50 Nm  | 12 rpm | 240 W | 1,1 A   | 585 mm | 598 mm | 621 mm | 2,55 kg | 2000432   |

Other references are available on pages 174-175

### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T5 - 10/12  | 10 Nm  | 12 rpm | 80 W  | 0,7 A   | 485 mm | 498 mm | 521 mm | 2,04 kg | 2000649   |
| T5 - 15/18  | 15 Nm  | 18 rpm | 145 W | 1,1 A   | 505 mm | 518 mm | 541 mm | 2,25 kg | 2000646   |
| T5 - 20/12  | 20 Nm  | 12 rpm | 130 W | 1,1 A   | 505 mm | 518 mm | 541 mm | 2,28 kg | 2000650   |
| T5 - 25/18  | 25 Nm  | 18 rpm | 180 W | 1,6 A   | 585 mm | 598 mm | 621 mm | 2,28 kg | 2000647   |
| T5 - 30/12  | 30 Nm  | 12 rpm | 170 W | 1,5 A   | 585 mm | 598 mm | 621 mm | 2,5 kg  | 2000651   |
| T5 - 35/18  | 35 Nm  | 18 rpm | 250 W | 2,1 A   | 585 mm | 598 mm | 621 mm | 2,77 kg | 2000648   |
| T5 - 40/12  | 40 Nm  | 12 rpm | 210 W | 1,8 A   | 585 mm | 598 mm | 621 mm | 2,76 kg | 2000652   |
| T5 - 50/12  | 50 Nm  | 12 rpm | 250 W | 2,1 A   | 585 mm | 598 mm | 621 mm | 2,48 kg | 2000653   |

## DIMENSIONS



## SPECIFICATION

- POWER SUPPLY** 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)
- THERMAL CUT-OUT** 4 minutes (230V) or 5 minutes (120V)
- PROGRESSIVE END-LIMIT** with a capacity of 28 rounds
- PROTECTION INDEX** IP 44
- AMBIENT TEMPERATURE OF USE** from -10°C to +40°C and exceptionally from -20°C to +60°C
- POWER CABLE 230 V** 2.5 meters (4x0,75 mm<sup>2</sup> wires, white H05 VVF)
- POWER CABLE 120 V** 2.5 meters (4xAWG19 wires, white 05 VVF)
- BASE DIAMETER OF THE CROWN** for Ø50 x 1.5 mm round tube
- MOTOR HEAD THICKNESS** 22.8 mm
- 4 CYCLES PER DAY** non consecutive
- INSULATION CLASS** Class I motor



# DMI 5 MOTOR

## WIRED, Ø 50 MM



BUILT-IN MANUAL OVERRIDE

PROGRESSIVE END-LIMIT SYSTEM

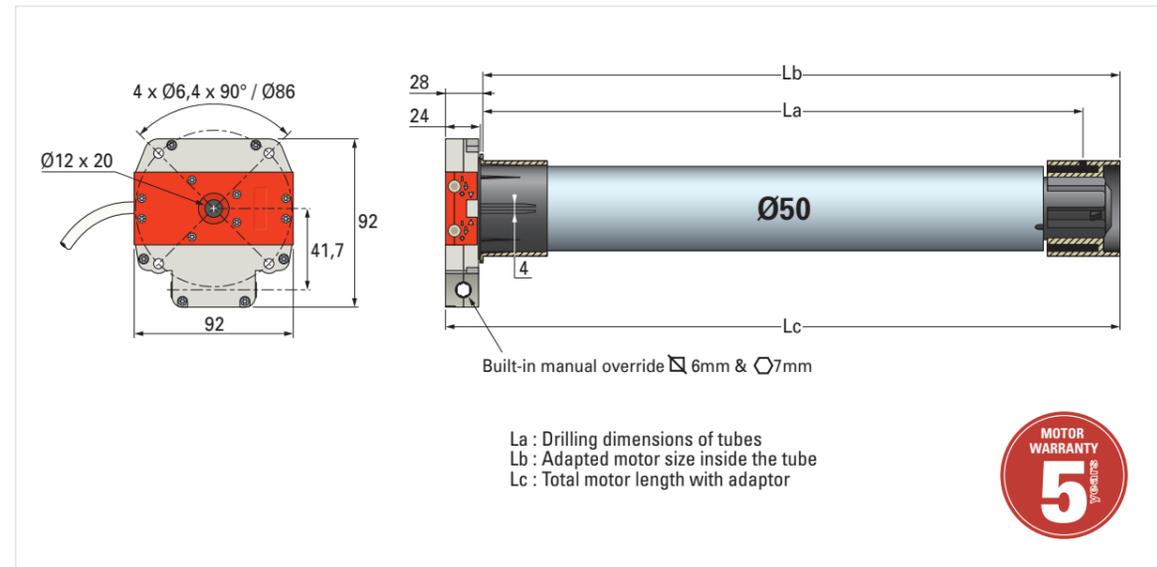
SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

...on either sides of the head.

COMPACT MOTOR HEAD

...only 24mm thickness.

## DIMENSIONS



## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION   | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|---------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| DMI 5 - 8/17  | 8 Nm   | 17 rpm | 100 W | 0,45 A  | 576 mm | 589 mm | 617 mm | 2,51 kg | 2000711   |
| DMI 5 - 10/17 | 10 Nm  | 17 rpm | 120 W | 0,5 A   | 576 mm | 589 mm | 617 mm | 2,59 kg | 2000717   |
| DMI 5 - 15/17 | 15 Nm  | 17 rpm | 140 W | 0,65 A  | 576 mm | 589 mm | 617 mm | 2,71 kg | 2000723   |
| DMI 5 - 20/17 | 20 Nm  | 17 rpm | 160 W | 0,75 A  | 576 mm | 589 mm | 617 mm | 2,84 kg | 2000730   |
| DMI 5 - 25/17 | 25 Nm  | 17 rpm | 170 W | 0,8 A   | 576 mm | 589 mm | 617 mm | 3 kg    | 2000737   |
| DMI 5 - 30/17 | 30 Nm  | 17 rpm | 240 W | 1,1 A   | 576 mm | 589 mm | 617 mm | 3,1 kg  | 2000743   |
| DMI 5 - 35/17 | 35 Nm  | 17 rpm | 240 W | 1,1 A   | 576 mm | 589 mm | 617 mm | 3,12 kg | 2000750   |
| DMI 5 - 40/12 | 40 Nm  | 12 rpm | 240 W | 1,1 A   | 576 mm | 589 mm | 617 mm | 3,12 kg | 2000756   |
| DMI 5 - 50/12 | 50 Nm  | 12 rpm | 240 W | 1,1 A   | 576 mm | 589 mm | 617 mm | 3,14 kg | 2000763   |

### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION   | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|---------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| DMI 5 - 10/12 | 10 Nm  | 12 rpm | 80 W  | 0,8 A   | 576 mm | 589 mm | 617 mm | 2,59 kg | 2000772   |
| DMI 5 - 15/18 | 15 Nm  | 18 rpm | 145 W | 1,3 A   | 576 mm | 589 mm | 617 mm | 2,77 kg | 2000769   |
| DMI 5 - 20/12 | 20 Nm  | 12 rpm | 130 W | 1,1 A   | 576 mm | 589 mm | 617 mm | 2,8 kg  | 2000773   |
| DMI 5 - 25/18 | 25 Nm  | 18 rpm | 180 W | 1,6 A   | 576 mm | 589 mm | 617 mm | 3,07 kg | 2000770   |
| DMI 5 - 30/12 | 30 Nm  | 12 rpm | 170 W | 1,5 A   | 576 mm | 589 mm | 617 mm | 3,01 kg | 2000774   |
| DMI 5 - 35/18 | 35 Nm  | 18 rpm | 250 W | 2,1 A   | 646 mm | 659 mm | 687 mm | 3,28 kg | 2000771   |
| DMI 5 - 40/12 | 40 Nm  | 12 rpm | 210 W | 1,8 A   | 646 mm | 659 mm | 687 mm | 3,28 kg | 2000775   |
| DMI 5 - 50/12 | 50 Nm  | 12 rpm | 250 W | 2,1 A   | 646 mm | 659 mm | 687 mm | 3,3 kg  | 2000776   |

## SPECIFICATION

|                                   |   |
|-----------------------------------|---|
| <b>POWER SUPPLY</b>               | 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)         |
| <b>THERMAL CUT-OUT</b>            | 4 minutes (230V) or 5 minutes (120V)                      |
| <b>PROGRESSIVE END-LIMIT</b>      | with a capacity of 28 rounds                              |
| <b>REDUCING RATIO</b>             | of the manual override: 27/1                              |
| <b>PROTECTION INDEX</b>           | IP 44   |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C |
| <b>POWER CABLE 230 V</b>          | 2.5 meters (4x0,75 mm <sup>2</sup> wires, white H05 VVF)  |
| <b>POWER CABLE 120 V</b>          | 2.5 meters (4xAWG19 wires, white 05 VVF)                  |
| <b>BASE DIAMETER OF THE CROWN</b> | for Ø50 x 1.5 mm round tube                               |
| <b>MOTOR HEAD THICKNESS</b>       | 24 mm   |
| <b>4 CYCLES PER DAY</b>           | non consecutive   |
| <b>INSULATION CLASS</b>           | Class I motor   |

CERTIFICATION & STANDARD

# T6 Hz.02 MOTOR

RADIO ELECTRONIC, Ø 60 MM



MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

ELECTRONIC END-LIMIT SYSTEM

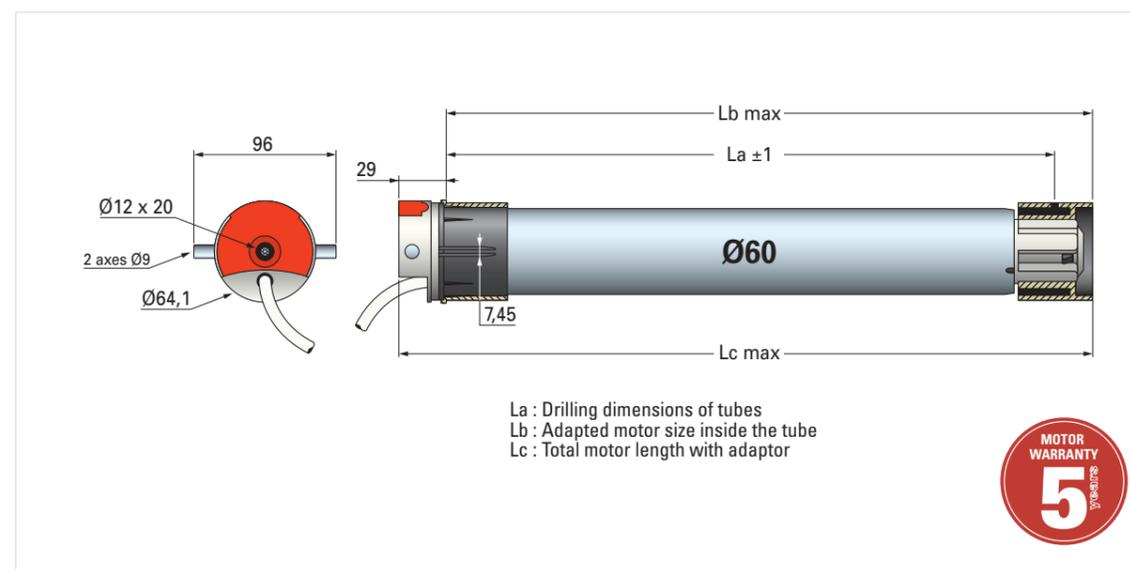
REMOTE SETTING OF THE UP AND DOWN END-LIMITS

...from a SIMU-Hz transmitter (excepted a sequential Hz transmitter).

INTERMEDIATE POSITION FUNCTION

...it is possible to record a user's favorite position.

## DIMENSIONS



## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION       | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT | REFERENCE |
|-------------------|--------|--------|-------|---------|--------|--------|--------|--------|-----------|
| T6 Hz.02 - 60/12  | 60 Nm  | 12 rpm | 240 W | 1,05 A  | 716 mm | 729 mm | 758 mm | 4,7 kg | 2006372   |
| T6 Hz.02 - 80/12  | 80 Nm  | 12 rpm | 290 W | 1,25 A  | 716 mm | 729 mm | 758 mm | 5 kg   | 2006373   |
| T6 Hz.02 - 100/12 | 100 Nm | 12 rpm | 350 W | 1,5 A   | 716 mm | 729 mm | 758 mm | 5,3 kg | 2006374   |
| T6 Hz.02 - 120/12 | 120 Nm | 12 rpm | 400 W | 1,8 A   | 716 mm | 729 mm | 758 mm | 5,5 kg | 2006375   |

Other references are available on page 176

### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION       | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT | REFERENCE |
|-------------------|--------|--------|-------|---------|--------|--------|--------|--------|-----------|
| T6 Hz.02 - 60/14  | 60 Nm  | 14 rpm | 285 W | 2,5 A   | 716 mm | 729 mm | 758 mm | 5 kg   | 2006060   |
| T6 Hz.02 - 80/14  | 80 Nm  | 14 rpm | 390 W | 3,4 A   | 716 mm | 729 mm | 758 mm | 5,4 kg | 2006061   |
| T6 Hz.02 - 100/14 | 100 Nm | 14 rpm | 430 W | 3,8 A   | 716 mm | 729 mm | 758 mm | 5,6 kg | 2006062   |

Other references are available on page 176

## SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)  |
| <b>THERMAL CUT-OUT</b>            | 4 minutes (230V) or 5 minutes (120V)   |
| <b>END-LIMIT</b>                  | Electronic system with operating limited to 3 min.   |
| <b>PROTECTION INDEX</b>           | IP 44  |
| <b>AMBIENT TEMPERATURE OF USE</b> | from -10°C to +40°C and exceptionally from -20°C to +60°C  |
| <b>POWER CABLE 230V</b>           | 2.5 meters (3x0.75 mm <sup>2</sup> wires, white H05 VVF)   |
| <b>POWER CABLE 120V</b>           | 2.5 meters (3xAWG19 wires, white 05 VVF)   |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>SECURE COMMUNICATION</b>       | Encrypted control orders<br>+ Rolling code with 16 million possible combinations   |
| <b>RANGE</b>                      | ~200m in free field<br>and ~20m through 2 reinforced concrete walls<br>(depends on the environment and on the radio pollution) |
| <b>BASE DIAMETER OF THE CROWN</b> | for Ø63 x 1.5 mm round tube  |
| <b>MOTOR HEAD THICKNESS</b>       | 29 mm  |
| <b>4 CYCLES PER DAY</b>           | non consecutive  |
| <b>INSULATION CLASS</b>           | Class I motor  |
| <b>CERTIFICATION</b>              |  |
| <b>&amp; STANDARD</b>             |  |

# DMI 6 Hz.01 MOTOR

RADIO, Ø 60 MM



MOTOR WITH BUILT-IN SIMU-HZ RADIO RECEIVER

BUILT-IN MANUAL OVERRIDE

PROGRESSIVE END-LIMIT SYSTEM

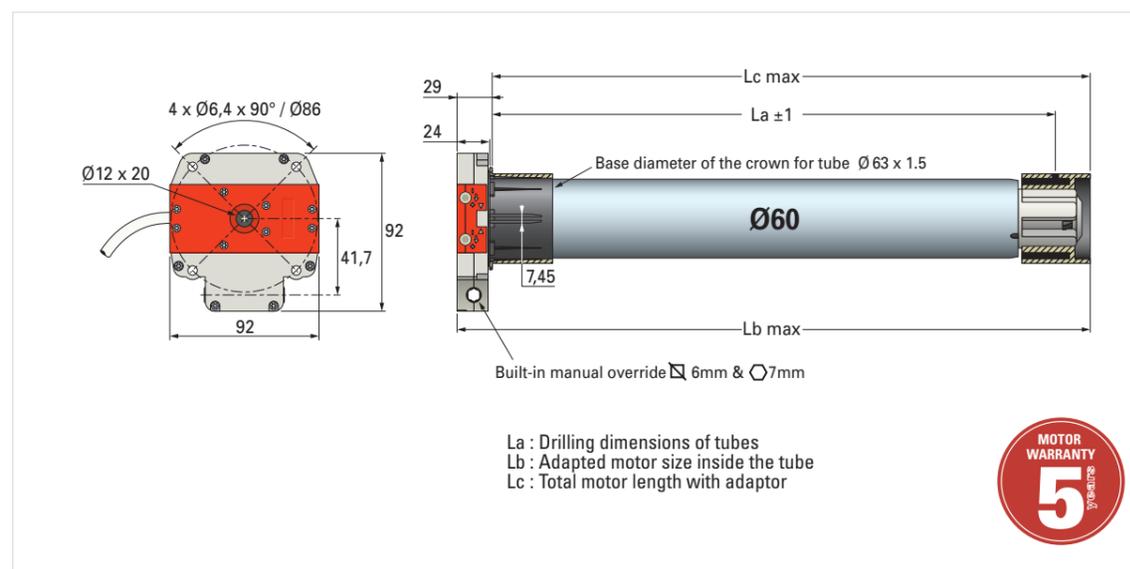
SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

...on either sides of the head.

COMPACT MOTOR HEAD

...only 24mm thickness.

## DIMENSIONS



## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION          | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT | REFERENCE |
|----------------------|--------|--------|-------|---------|--------|--------|--------|--------|-----------|
| DMI 6 Hz.01 - 60/12  | 60 Nm  | 12 rpm | 240 W | 1,05 A  | 836 mm | 849 mm | 878 mm | 5,4 kg | 2006376   |
| DMI 6 Hz.01 - 80/12  | 80 Nm  | 12 rpm | 290 W | 1,25 A  | 836 mm | 849 mm | 878 mm | 5,7 kg | 2006377   |
| DMI 6 Hz.01 - 100/12 | 100 Nm | 12 rpm | 350 W | 1,5 A   | 836 mm | 849 mm | 878 mm | 6 kg   | 2006378   |
| DMI 6 Hz.01 - 120/12 | 120 Nm | 12 rpm | 400 W | 1,8 A   | 836 mm | 849 mm | 878 mm | 6,2 kg | 2006379   |

### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION          | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT | REFERENCE |
|----------------------|--------|--------|-------|---------|--------|--------|--------|--------|-----------|
| DMI 6 Hz.01 - 60/14  | 60 Nm  | 14 rpm | 285 W | 2,5 A   | 836 mm | 849 mm | 878 mm | 5,8 kg | 2006056   |
| DMI 6 Hz.01 - 80/14  | 80 Nm  | 14 rpm | 390 W | 3,4 A   | 836 mm | 849 mm | 878 mm | 6,1 kg | 2006057   |
| DMI 6 Hz.01 - 100/14 | 100 Nm | 14 rpm | 430 W | 3,8 A   | 836 mm | 849 mm | 878 mm | 6,4 kg | 2006058   |

## SPECIFICATION

- POWER SUPPLY** 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)
- THERMAL CUT-OUT** 4 minutes (230V) or 5 minutes (120V)
- PROGRESSIVE END-LIMIT** with a capacity of 30 rounds
- REDUCING RATIO** of the manual override: 55/1
- PROTECTION INDEX** IP 44
- AMBIENT TEMPERATURE OF USE** from -10°C to +40°C and exceptionally from -20°C to +60°C
- POWER CABLE 230V** 2.5 meters (3x0,75 mm<sup>2</sup> wires, white H05 VVF)
- POWER CABLE 120V** 2.5 meters (3xAWG19 wires, white H05 VVF)
- RADIO FREQUENCY** 433.42 MHz
- SECURE COMMUNICATION** Encrypted control orders  
+ Rolling code with 16 million possible combinations
- RANGE** ~200m in free field  
and ~20m through 2 reinforced concrete walls  
(depends on the environment and on the radio pollution)
- BASE DIAMETER OF THE CROWN** for Ø63 x 1.5 mm round tube
- MOTOR HEAD THICKNESS** 24 mm
- 4 CYCLES PER DAY** non consecutive
- INSULATION CLASS** Class I motor

CERTIFICATION



& STANDARD

# T6 MOTOR

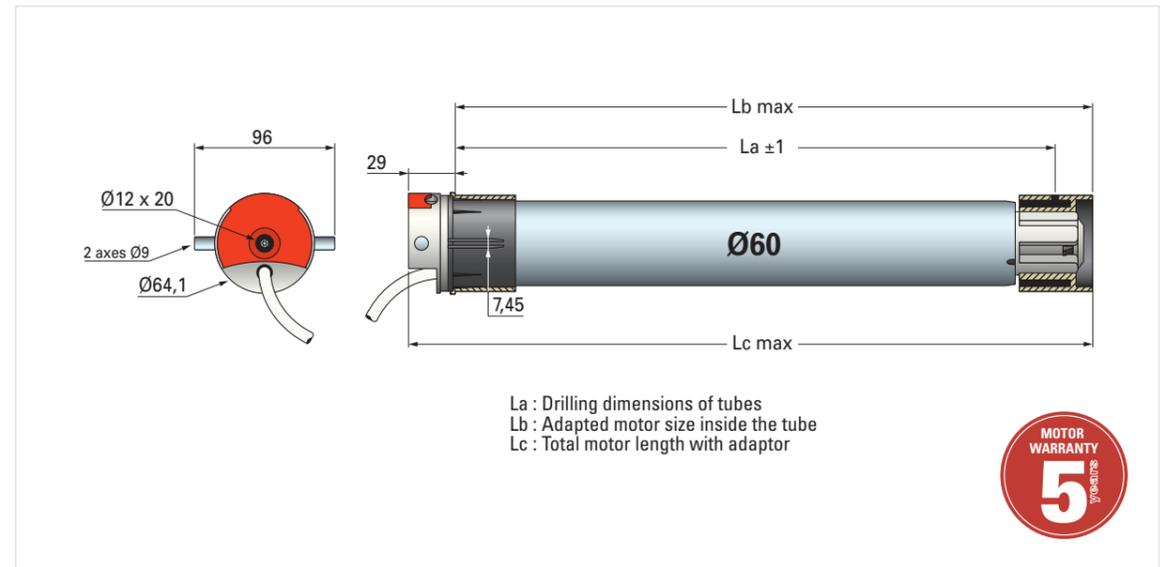
WIRED, Ø 60 MM



PROGRESSIVE END-LIMIT SYSTEM

SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

## DIMENSIONS



## RANGE

### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T6 - 40/17  | 40 Nm  | 17 rpm | 240 W | 1,05 A  | 676 mm | 689 mm | 718 mm | 4,43 kg | 2000892   |
| T6 - 55/17  | 55 Nm  | 17 rpm | 290 W | 1,25 A  | 676 mm | 689 mm | 718 mm | 4,64 kg | 2000898   |
| T6 - 70/17  | 70 Nm  | 17 rpm | 350 W | 1,5 A   | 676 mm | 689 mm | 718 mm | 4,97 kg | 2000904   |
| T6 - 85/17  | 85 Nm  | 17 rpm | 400 W | 1,8 A   | 676 mm | 689 mm | 718 mm | 5,17 kg | 2000910   |
| T6 - 60/12  | 60 Nm  | 12 rpm | 240 W | 1,05 A  | 676 mm | 689 mm | 718 mm | 4,43 kg | 2000916   |
| T6 - 80/12  | 80 Nm  | 12 rpm | 290 W | 1,25 A  | 676 mm | 689 mm | 718 mm | 4,64 kg | 2000922   |
| T6 - 100/12 | 100 Nm | 12 rpm | 350 W | 1,5 A   | 676 mm | 689 mm | 718 mm | 4,97 kg | 2000928   |
| T6 - 120/12 | 120 Nm | 12 rpm | 400 W | 1,8 A   | 676 mm | 689 mm | 718 mm | 5,17 kg | 2000934   |

### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|-------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| T6 - 60/14  | 60 Nm  | 14 rpm | 285 W | 2,5 A   | 676 mm | 689 mm | 718 mm | 4,66 kg | 2000985   |
| T6 - 80/14  | 80 Nm  | 14 rpm | 390 W | 3,4 A   | 676 mm | 689 mm | 718 mm | 4,97 kg | 2000986   |
| T6 - 100/14 | 100 Nm | 14 rpm | 430 W | 3,8 A   | 676 mm | 689 mm | 718 mm | 5,31 kg | 2000987   |

## SPECIFICATION

- POWER SUPPLY** 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)
- THERMAL CUT-OUT** 4 minutes (230V) or 5 minutes (120V)
- PROGRESSIVE END-LIMIT** with a capacity of 23 rounds
- PROTECTION INDEX** IP 44
- AMBIENT TEMPERATURE OF USE** from -10°C to +40°C and exceptionally from -20°C to +60°C
- POWER CABLE 230V** 2.5 meters (4x0,75 mm<sup>2</sup> wires, white H05 VVF)  
0.7 meters (4x0,75 mm<sup>2</sup> wires, black H05 RRF)
- POWER CABLE 120V** 2.5 meters (4xAWG19 wires, white 05 VVF)
- BASE DIAMETER OF THE CROWN** for Ø63 x 1.5 mm round tube
- MOTOR HEAD THICKNESS** 29 mm
- 4 CYCLES PER DAY** non consecutive
- INSULATION CLASS** Class I motor

**CERTIFICATION**     
**& STANDARD** 

# DMI 6 MOTOR

## WIRED, Ø 60 MM



BUILT-IN MANUAL OVERRIDE

PROGRESSIVE END-LIMIT SYSTEM

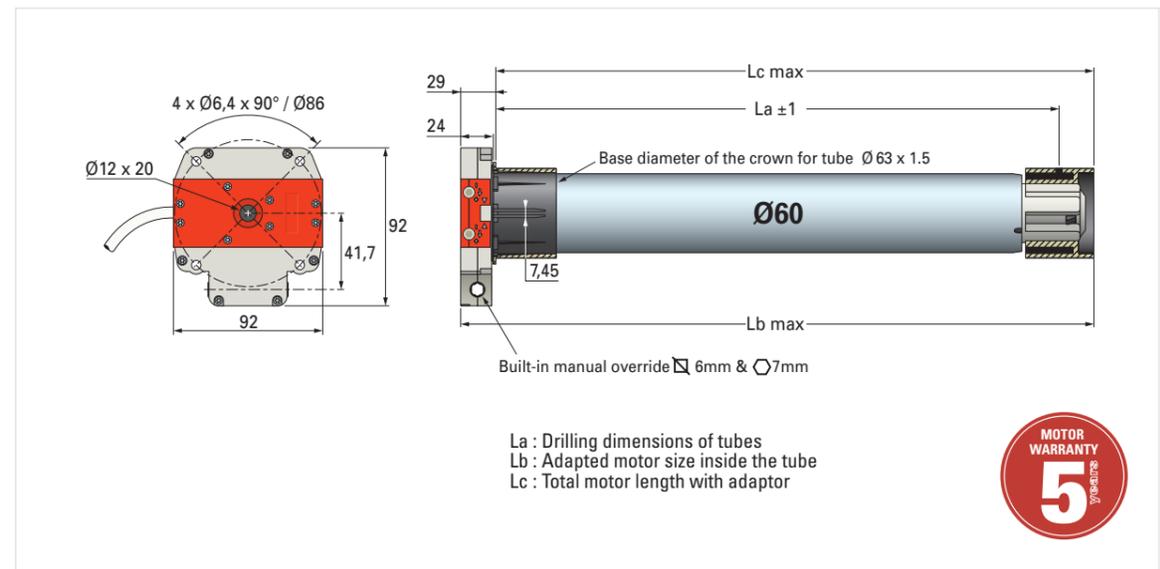
SETTING OF THE UP AND DOWN END-LIMITS ON THE MOTOR HEAD

...on either sides of the head.

COMPACT MOTOR HEAD

...only 24mm thickness.

### DIMENSIONS



### RANGE

#### POWER SUPPLY 230V - 50 Hz

| DESCRIPTION    | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|----------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| DMI 6 - 40/17  | 40 Nm  | 17 rpm | 240 W | 1,05 A  | 662 mm | 675 mm | 704 mm | 4,6 kg  | 2000991   |
| DMI 6 - 55/17  | 55 Nm  | 17 rpm | 290 W | 1,25 A  | 662 mm | 675 mm | 704 mm | 4,85 kg | 2000994   |
| DMI 6 - 70/17  | 70 Nm  | 17 rpm | 350 W | 1,5 A   | 662 mm | 675 mm | 704 mm | 5,17 kg | 2000997   |
| DMI 6 - 85/17  | 85 Nm  | 17 rpm | 400 W | 1,8 A   | 662 mm | 675 mm | 704 mm | 5,38 kg | 2001000   |
| DMI 6 - 60/12  | 60 Nm  | 12 rpm | 240 W | 1,05 A  | 662 mm | 675 mm | 704 mm | 4,63 kg | 2001003   |
| DMI 6 - 80/12  | 80 Nm  | 12 rpm | 290 W | 1,25 A  | 662 mm | 675 mm | 704 mm | 4,85 kg | 2001007   |
| DMI 6 - 100/12 | 100 Nm | 12 rpm | 350 W | 1,5 A   | 662 mm | 675 mm | 704 mm | 5,17 kg | 2001010   |
| DMI 6 - 120/12 | 120 Nm | 12 rpm | 400 W | 1,8 A   | 662 mm | 675 mm | 704 mm | 5,38 kg | 2001013   |

#### POWER SUPPLY 120V - 60 Hz

| DESCRIPTION    | TORQUE | SPEED  | POWER | CURRENT | La     | Lb     | Lc     | WEIGHT  | REFERENCE |
|----------------|--------|--------|-------|---------|--------|--------|--------|---------|-----------|
| DMI 6 - 60/14  | 60 Nm  | 14 rpm | 285 W | 2,5 A   | 662 mm | 675 mm | 704 mm | 4,87 kg | 2001040   |
| DMI 6 - 80/14  | 80 Nm  | 14 rpm | 390 W | 3,4 A   | 662 mm | 675 mm | 704 mm | 5,18 kg | 2001042   |
| DMI 6 - 100/14 | 100 Nm | 14 rpm | 430 W | 3,8 A   | 662 mm | 675 mm | 704 mm | 5,54 kg | 2001044   |

### SPECIFICATION

- POWER SUPPLY** 230 Volts - 50 Hz or 120 Volts - 60 Hz (US range)
- THERMAL CUT-OUT** 4 minutes (230V) or 5 minutes (120V)
- PROGRESSIVE END-LIMIT** with a capacity of 28 rounds
- REDUCING RATIO** of the manual override: 55/1
- PROTECTION INDEX** IP 44
- AMBIENT TEMPERATURE OF USE** from -10°C to +40°C and exceptionally from -20°C to +60°C
- POWER CABLE 230V** 2.5 meters (4x0,75 mm<sup>2</sup> wires, white H05 VVF)  
0.7 meters (4x0,75 mm<sup>2</sup> wires, black H05 RRF)
- POWER CABLE 120V** 2.5 meters (4xAWG19 wires, white 05 VVF)
- BASE DIAMETER OF THE CROWN** for Ø63 x 1.5 mm round tube
- MOTOR HEAD THICKNESS** 24 mm
- 4 CYCLES PER DAY** non consecutive
- INSULATION CLASS** Class I motor

CERTIFICATION   

& STANDARD 

# ADAPTOR SETS

## FOR Ø40, Ø50, Ø60 MOTORS

### INTERFACE ADAPTOR

| INTERFACE SET | DESCRIPTION  | REFERENCE      |
|---------------|--|----------------|
|               | Adaptor interface for Ø40 motor enabling to use adaptors made for Ø50 motors | <b>9001529</b> |

### Ø40 MOTORS

| TUBE                                   | DRIVE HUB   | CROWN       | DESCRIPTION   | REFERENCE      |
|--|-------------|-------------|---|----------------|
| <br>Deprat 40<br>External clamping     | <br>9500344 | <br>9132145 | Adaptor for Deprat octa 40 tube, external clamping      | <b>9001496</b> |
| <br>Octa 40 Imbac<br>External clamping | <br>9147545 | <br>9147327 | Adaptor for Imbac octa 40 tube external clamping        | <b>9001481</b> |
| <br>Octa 40<br>Internal clamping       | <br>9016084 | <br>9016085 | Off centered adaptor for octa 40 tube internal clamping | <b>9016635</b> |
| <br>ZF 45                              | <br>9500444 | <br>9500455 | Adaptor for ZF 45 tube                                  | <b>9001498</b> |

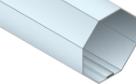
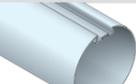
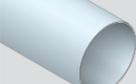
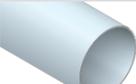
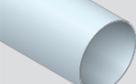
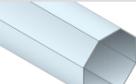
### Ø50 MOTORS

| TUBE              | DRIVE HUB   | CROWN       | DESCRIPTION                    | REFERENCE      |
|-------------------|-------------|-------------|--------------------------------|----------------|
| <br>Octa 50 Selve | <br>9705344 | <br>9705345 | Adaptor for Selve octa 50 tube | <b>9521054</b> |
| <br>ZF 54         | <br>9410423 | <br>9001165 | Adaptor for ZF 54 tube         | <b>9011000</b> |
| <br>Deprat 53     | <br>9420304 | <br>9521055 | Adaptor for Deprat 53 tube     | <b>9013091</b> |

*Adaptor set only*

|  |             |             |  |                |
|--|-------------|-------------|--|----------------|
| <br>Octa 60 Simbac                     | <br>9751001 | <br>9707025 | Adaptor for Simbac octa 60 tube                                      | <b>9521031</b> |
| <br>Octa 60                            | <br>9521050 | <br>9707025 | Adaptor for octa 60 tube with ABS drive hub - Right                  | <b>9521039</b> |
| <br>Octa 60                            | <br>9521049 | <br>9707025 | Adaptor for octa 60 tube with ABS drive hub - Left                   | <b>9521040</b> |
| <br>Deprat 62                          | <br>9410302 | <br>9410300 | Adaptor for Deprat 62 tube   | <b>9521014</b> |
| <br>ZF 64                              | <br>9410356 | <br>9410357 | Adaptor for ZF 64 tube   | <b>9521032</b> |
| <br>Octa 70 Simbac<br>1.2 mm thickness | <br>9606133 | <br>9910004 | Adaptor for Simbac octa 70 tube 1.2 mm thickness with drive hub stop | <b>9521022</b> |
| <br>Octa 70 Dohner                     | <br>9761002 | <br>9521046 | Adaptor for Dohner octa 70 tube                                      | <b>9521021</b> |
| <br>Deprat 89                          | <br>9420301 | <br>9707026 | Adaptor for Deprat 89 tube   | <b>9521015</b> |
| <br>ZF 80                              | <br>9420302 | <br>9011792 | Adaptor for ZF 80 tube   | <b>9521033</b> |
| <br>Round 102 x 2 mm                   | <br>9420304 | <br>9521055 | Adaptor for 102 x 2 mm tube  | <b>9521056</b> |
| <br>Round 102 x 2 mm                   | <br>9420304 | <br>9910004 | Adaptor for 102 x 2 mm tube with drive hub stop                      | <b>9521057</b> |

### Ø60 MOTORS

| TUBE   | DRIVE HUB  | CROWN  | DESCRIPTION   | REFERENCE      |
|--|--|--|---|----------------|
| <br>Octa 70 Simbac<br>1.2mm thickness | <br>9606133 9910062 | <br>9705340   | Adaptor for Simbac octa 70 tube 1.2mm thickness with drive hub stop | <b>9530117</b> |
| <br>ZF 80                             | <br>9420302         | <br>9128890   | Adaptor for ZF 80 tube  | <b>9530114</b> |
| <br>Deprat 89                         | <br>9420301         | <br>9420341   | Adaptor for Deprat 89 tube  | <b>9530110</b> |
| <br>Round 101.6 x 1.6mm               | <br>9420304 9910062 | <br>9420370   | Adaptor for 101.6 x 1.6mm tube with drive hub stop                  | <b>9000985</b> |
| <br>Round 101.6 x 3.6mm               | <br>9420309 9910062 | <br>9420371   | Adaptor for 101.6 x 3.6mm tube with drive hub stop                  | <b>9000986</b> |
| <br>Round 101.6 x 3.6mm              | <br>9420309        | <br>9420371  | Adaptor for 101.6 x 3.6mm tube                                      | <b>9530124</b> |
| <br>Octa 102 Alulux                 | <br>9761013       | <br>9762013 | Adaptor for Alulux octa 102 tube                                    | <b>9530131</b> |

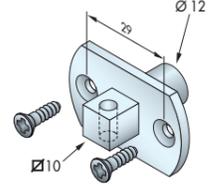
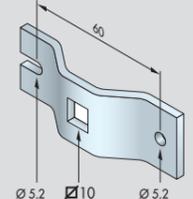
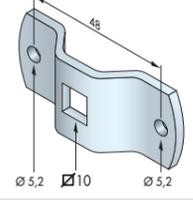
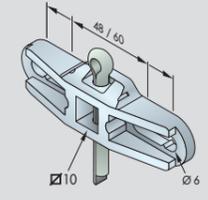
## BRACKETS FOR MOTOR SIDE

### Ø40, Ø50, Ø60 AND DMI MOTORS

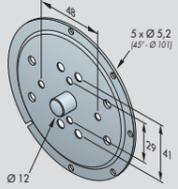
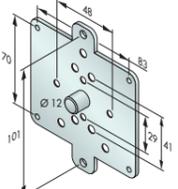
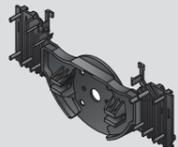
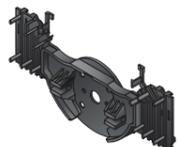
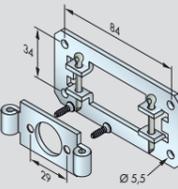
#### Ø40 MOTORS

| INTERFACE SET   | MAXI TORQUE  | DESCRIPTION   | REFERENCE      |
|---|--------------|---|----------------|
|  | <b>13 Nm</b> | Interface set for use with T3.5 motor with a T5 bracket with 2 Plastite screws 3.8x12 | <b>9016981</b> |

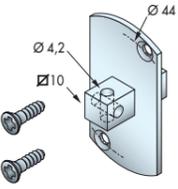
#### Ø40 MOTORS

| BRACKET   | APPLICATION                        | MAXI TORQUE  | DESCRIPTION   | REFERENCE            |
|---|------------------------------------|--------------|---|----------------------|
|    | WALL INTEGRATED SYSTEM             | <b>20 Nm</b> | Joining with 10mm square with 2 plastite screws 3.8 x 12mm                      | <b>9001527</b>       |
|   | WALL INTEGRATED SYSTEM             | <b>25 Nm</b> | Bracket with 10mm square 2 x Ø5mm holes 60 mm inter-axle                        | <b>9510101</b>       |
|  | WALL INTEGRATED SYSTEM             | <b>25 Nm</b> | Bracket with 10mm square 2 x Ø5mm holes 48 mm inter-axle                        | <b>9701240</b>       |
|  | WALL INTEGRATED SYSTEM             | <b>25 Nm</b> | Bracket with 10mm square 2 x Ø6mm oblongs from 48 to 60 mm inter-axle           | <b>9137029</b>       |
|  | COMBINED WINDOW SHUTTER RENOVATION | <b>35 Nm</b> | Universal bracket: Simbac Modulo, Deceuninck Starbox, Alphacan Lucoroll, etc... | <b>9013761 (x1)</b>  |
|  | COMBINED WINDOW SHUTTER RENOVATION | <b>35 Nm</b> | Universal bracket: Simbac Modulo, Deceuninck Starbox, Alphacan Lucoroll, etc... | <b>9012978 (x20)</b> |

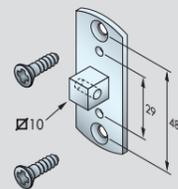
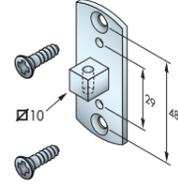
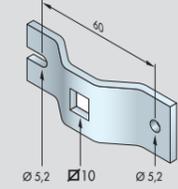
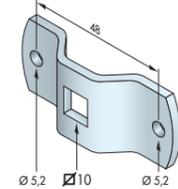
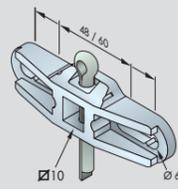
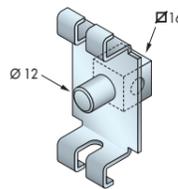
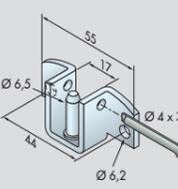
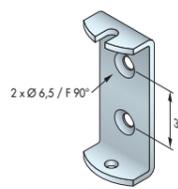
**Ø40 MOTORS**

| BRACKET   | APPLICATION             | MAXI TORQUE | DESCRIPTION  | REFERENCE      |
|---|-------------------------|-------------|--|----------------|
|    | COMBINED WINDOW SHUTTER | 20 Nm       | Rehau S762 draw  | 2005757        |
|    | COMBINED WINDOW SHUTTER | 20 Nm       | Thyssen bracket  | 2003200        |
|    | COMBINED WINDOW SHUTTER | 20 Nm       | S.K.S. bracket   | 2003206        |
|   | RENOVATION              | 20 Nm       | Butterfly bracket, cuttable from 137 to 205mm (Gaviota Simbac Mini 45° side frame) | 9001108 (x1)   |
|  | RENOVATION              | 20 Nm       | Butterfly bracket, cuttable from 137 to 205mm (Gaviota Simbac Mini 45° side frame) | 9015860 (x100) |
|  | RENOVATION              | 13 Nm       | Bracket for side frame with Ø 12 mm pivot with 2 plastite screws 3.8x12            | 9500815        |

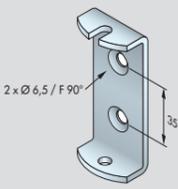
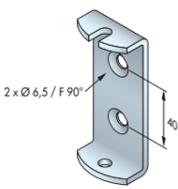
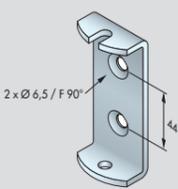
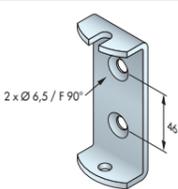
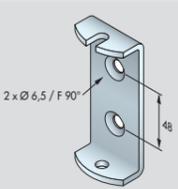
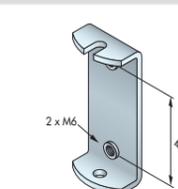
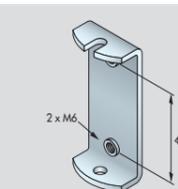
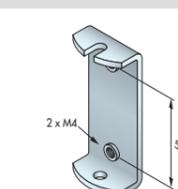
**Ø50 MOTORS**

| BRACKET   | APPLICATION            | MAXI TORQUE | DESCRIPTION  | REFERENCE |
|---|------------------------|-------------|--|-----------|
|  | WALL INTEGRATED SYSTEM | 20 Nm       | Joining with 10mm square, with 2 plastite screws 5 x 12 for T5 and T5 DC | 9013923   |

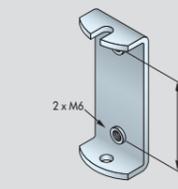
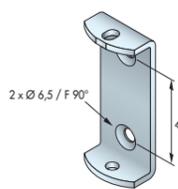
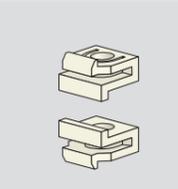
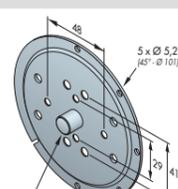
**Ø50 MOTORS**

| BRACKET   | APPLICATION            | MAXI TORQUE | DESCRIPTION   | REFERENCE |
|---|------------------------|-------------|---|-----------|
|    | WALL INTEGRATED SYSTEM | 25 Nm       | Joining with 10mm square with 2 plastite screws 5 x 16mm for T5 AUTO, AUTO short, AUTO short Hz, T5 E, E Hz, E Hz DC and T5 Hz.02 | 9910013   |
|    | WALL INTEGRATED SYSTEM | 25 Nm       | Joining with 10mm square with 2 plastite screws 5 x 16mm for T5 AUTO, AUTO short, AUTO short Hz, T5 E, E Hz, E Hz DC and T5 Hz.02 | 9910014   |
|    | WALL INTEGRATED SYSTEM | 25 Nm       | Bracket with 10mm square 2 x Ø5mm holes 60mm inter-axle   | 9510101   |
|   | WALL INTEGRATED SYSTEM | 25 Nm       | Bracket with 10mm square 2 x Ø5mm holes 48mm inter-axle   | 9701240   |
|  | WALL INTEGRATED SYSTEM | 25 Nm       | Bracket with 10mm square 2xØ6mm oblongs from 48 to 60mm inter-axle  | 9137029   |
|  | WALL INTEGRATED SYSTEM | 50 Nm       | Clamp with 10mm square with 16mm square   | 9016077   |
|  | WALL INTEGRATED SYSTEM | 30 Nm       | Bracket with 16mm square  | 9017188   |
|  | WALL INTEGRATED SYSTEM | 30 Nm       | T5 clamp Ø6.5 mm F 90° holes 30mm inter-axle  | 9520076   |

**Ø50 MOTORS**

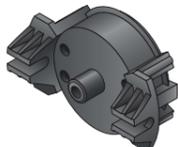
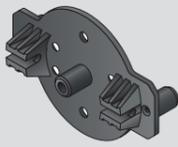
| BRACKET   | APPLICATION            | MAXI TORQUE | DESCRIPTION                                      | REFERENCE |
|---|------------------------|-------------|--|-----------|
|    | WALL INTEGRATED SYSTEM | 30 Nm       | T5 clamp<br>Ø6,5mm F 90° holes<br>35mm inter-axe | 9520054   |
|    | WALL INTEGRATED SYSTEM | 40 Nm       | T5 clamp<br>Ø6,5mm F 90° holes<br>40mm inter-axe | 9520048   |
|    | WALL INTEGRATED SYSTEM | 40 Nm       | T5 clamp<br>Ø6,5mm F 90° holes<br>44mm inter-axe | 9520064   |
|   | WALL INTEGRATED SYSTEM | 40 Nm       | T5 clamp<br>Ø6,5mm F 90° holes<br>46mm inter-axe | 9520062   |
|  | WALL INTEGRATED SYSTEM | 50 Nm       | T5 clamp<br>Ø6,5mm F 90° holes<br>48mm inter-axe | 9520104   |
|  | WALL INTEGRATED SYSTEM | 50 Nm       | T5 clamp<br>M6 holes<br>44mm inter-axe           | 9257403   |
|  | WALL INTEGRATED SYSTEM | 50 Nm       | T5 clamp<br>M6 holes<br>48mm inter-axe           | 9520040   |
|  | WALL INTEGRATED SYSTEM | 50 Nm       | T5 clamp<br>M4 holes<br>50mm inter-axe           | 9520038   |

**Ø50 MOTORS**

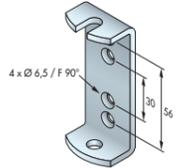
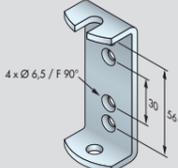
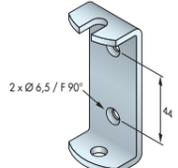
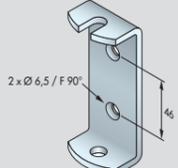
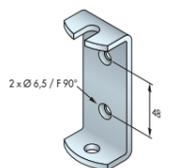
| BRACKET   | APPLICATION                        | MAXI TORQUE | DESCRIPTION   | REFERENCE      |
|---|------------------------------------|-------------|---|----------------|
|    | WALL INTEGRATED SYSTEM             | 50 Nm       | T5 clamp<br>M6 holes<br>60mm inter-axe  | 9520063        |
|    | WALL INTEGRATED SYSTEM             | 40 Nm       | T5 clamp with oblongs<br>Ø6,5mm F 90° holes<br>44mm inter-axe                             | 9012467        |
|    | COMBINED WINDOW SHUTTER RENOVATION | 35 Nm       | Universal bracket:<br><i>Simbac Modulo, Deceuninck Storbox, Alphacan Lucoroll, etc...</i> | 9013761 (x1)   |
| <b>Packaged by 1</b>  |                                    |             |   |                |
|   | COMBINED WINDOW SHUTTER RENOVATION | 35 Nm       | Universal bracket<br><i>Simbac Modulo, Deceuninck Storbox, Alphacan Lucoroll, etc...</i>  | 9012978 (x20)  |
| <b>Packaged by 20</b>   |                                    |             |   |                |
|  | COMBINED WINDOW SHUTTER            | 20 Nm       | Plastic clamp for ZF bracket  | 9013073 (x200) |
|  | COMBINED WINDOW SHUTTER            | 20 Nm       | Fixing set for ZF bracket   | 9011860 (x200) |
|  | COMBINED WINDOW SHUTTER            | 20 Nm       | Rehau S762 draw   | 2005757        |
|  | COMBINED WINDOW SHUTTER            | 20 Nm       | Thyssen bracket   | 2003200        |



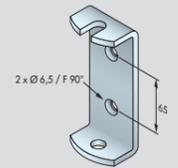
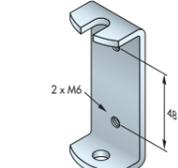
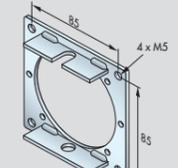
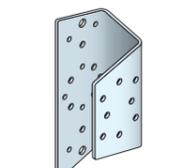
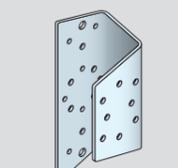
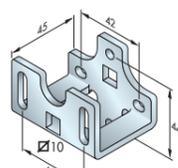
**Ø50 MOTORS**

| BRACKET   | APPLICATION | MAXI TORQUE | DESCRIPTION                                | REFERENCE |
|---|-------------|-------------|--|-----------|
|  | TUNNEL      | 30 Nm       | Bracket for tunnel end plate Coffrelite ZF | 9011606   |
|  | TUNNEL      | 30 Nm       | Bracket for tunnel end plate Edilcass ZF   | 9017534   |

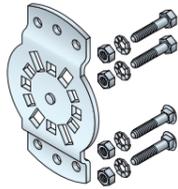
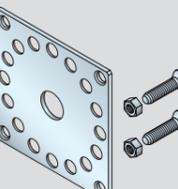
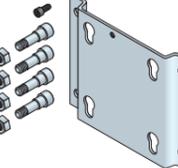
**Ø60 MOTORS**

| BRACKET   | APPLICATION            | MAXI TORQUE | DESCRIPTION                                 | REFERENCE |
|---|------------------------|-------------|---|-----------|
|   | WALL INTEGRATED SYSTEM | 40 Nm       | T6 clamp Ø6.5mm F 90° holes 30mm inter-axle | 9530051   |
|  | WALL INTEGRATED SYSTEM | 60 Nm       | T6 clamp Ø6.5mm F 90° holes 56mm inter-axle | 9530051   |
|  | WALL INTEGRATED SYSTEM | 45 Nm       | T6 clamp Ø6.5mm F 90° holes 44mm inter-axle | 9530043   |
|  | WALL INTEGRATED SYSTEM | 45 Nm       | T6 clamp Ø6.5mm F 90° holes 46mm inter-axle | 9530017   |
|  | WALL INTEGRATED SYSTEM | 45 Nm       | T6 clamp Ø6.5mm F 90° holes 48mm inter-axle | 9530104   |

**Ø60 MOTORS**

| BRACKET   | APPLICATION            | MAXI TORQUE | DESCRIPTION  | REFERENCE |
|---|------------------------|-------------|--|-----------|
|    | WALL INTEGRATED SYSTEM | 80 Nm       | T6 clamp Ø6.5mm F 90° holes 65mm inter-axle                                    | 9530040   |
|    | WALL INTEGRATED SYSTEM | 45 Nm       | T6 clamp 2 X M6 holes 48mm inter-axle  | 9530042   |
|    | RENOVATION             | 120 Nm      | Plate 100x100 - T6   | 9530018   |
|   | TUNNEL                 | 40 Nm       | Off-set bracket in U Use with clamp ref. 9530051 holes with 30mm inter-axle    | 9520202   |
|  | TUNNEL                 | 60 Nm       | Off-set bracket in U Use with clamp ref. 9530051 holes with 56mm inter-axle    | 9520202   |
|  | TUNNEL                 | 45 Nm       | Off-set bracket ZF 45mm Use with clamp ref. 9530043 holes with 44mm inter-axle | 9001735   |

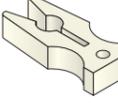
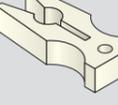
## DMI MOTORS

| BRACKET   | APPLICATION                   | MAXI TORQUE | DESCRIPTION  | REFERENCE |
|---|-------------------------------|-------------|--|-----------|
|    | WALL INTEGRATED SYSTEM TUNNEL | 85 Nm       | Orientable DMI bracket - 30° inter-axle holes: 40 and 48mm with 6mm screws   | 9420654   |
|    | COMBINED WINDOW SHUTTER       | 20 Nm       | Expandable inserts with screws for <i>Modulo d'Imbac, Lucoroll, Storbox - Deceuninck, SPPF, etc</i><br>Direct assembly on the draw | 9410699   |
|    | RENOVATION                    | 20 Nm       | Expandable clowels with screws for Mini and Domino Imbac boxes<br>Direct assembly on the plate of the side frame                   | 9410790   |
|   | RENOVATION                    | 120 Nm      | Plate 100 x 100mm with 2 M6 x 25mm bolts   | 9706034   |
|  | RENOVATION                    | 120 Nm      | Quick bracket for DMI motor<br>4 positioning screws<br>+ 1 security screw  | 9017950   |

## SCREWS FOR FIXING MOTOR HEADS

| TYPE   | FOR MOTORS   | REFERENCE |
|--|--|-----------|
|  PLASTITE SCREWS<br>2 holes Ø3.9mm                          | T3.5 Hz.02 - T3.5 E Hz DC - T3.5 AUTO - T3.5 and T3.5 DC                                     | 5005970A  |
|  M5 PLASTITE SCREWS<br>4 holes Ø4.5 x 12mm                  | T5 and T5 DC   | 855002    |
|  FZ5 PLASTITE SCREWS<br>2 holes<br>(fixing limited to 35Nm) | T5 Hz.02 - T5 E Hz - T5 AUTO SHORT Hz - T5 ESP Hz<br>T5 AUTO - T5 AUTO SHORT - T5 E - T5 ESP | 5010255A  |

## SCREWS FOR FIXING ONTO CLAMP

| ACCESSORIE  | DESCRIPTION                         | REFERENCE x 200 |
|---|-------------------------------------|-----------------|
|  | Pin ring for Ø50 motor (bag 200)    | 9850312         |
|  | Pin ring for Ø60 motor (bag 200)    | 9850313         |
|  | Fixing clip for Ø50 motor (bag 200) | 850316          |
|  | Fixing clip for Ø60 motor (bag 200) | 850317          |

## ACCESSORIES FOR MOTOR SETTING

| ACCESSORIE  | DESCRIPTION                                 | REFERENCE      |
|---|---|----------------|
|   | Setting switch for wired motor              | 2001476        |
|  | Flexible setting screwdriver (length 214mm) | 9011781 (x 20) |
|  | Rigid setting screwdriver (length 125mm)    | 9000987 (x 20) |
|  | Setting switch for T5 E motor               | 2006024        |

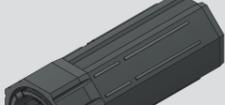
## END CAPS FOR OPPOSITE SIDE

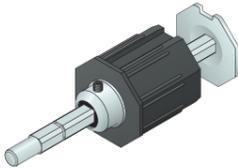
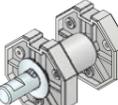
### FOR OCTA 40, 60 AND 70 ROLLING TUBES

#### OCTA 40MM ROLLING TUBE

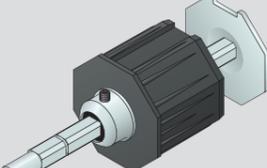
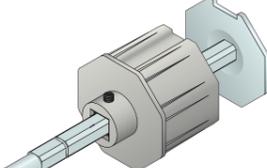
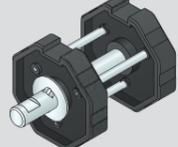
| END CAP   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|  | End cap length 78mm for Ø28mm bearing   | 2003527   |
|  | End cap length 85mm with clips with 10mm female square for 18mm bearing with bore | 2003105   |

#### OCTA 60MM ROLLING TUBE

| END CAP   | DESCRIPTION                                      | REFERENCE |
|---|--|-----------|
|  | End cap length 54mm for Ø42mm bearing            | 2003504   |
|  | End cap length 98mm with clips for Ø28mm bearing | 2003528   |
|  | End cap length 150mm for Ø28mm bearing           | 2003539   |
|  | End cap length 150mm for Ø42mm bearing           | 2003540   |

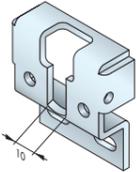
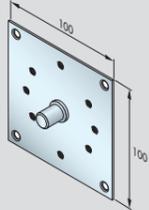
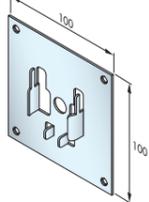
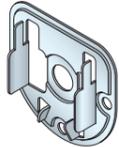
|   |   |         |
|---|---|---------|
|  | Plastic telescopic end cap length 200mm with 12mm pivot                           | 2003389 |
|  | End cap length 57mm with 12mm pivot   | 2003535 |
|  | Bobbin for SIMU bracket ref. 2003617  | 2003565 |
|  | End cap length 96mm with clips with 10mm female square for 18mm bearing with bore | 2003103 |

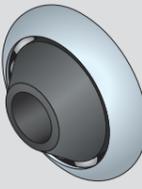
#### OCTA 70MM ROLLING TUBE

| END CAP   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|  | End cap length 54mm for Ø42mm bearing                     | 2003505   |
|  | Plastic telescopic end cap length 200mm with 12mm pivot   | 2003390   |
|  | Aluminium telescopic end cap length 200mm with 12mm pivot | 2003471   |
|  | Bobbin for SIMU bracket ref. 2003617                      | 2003564   |

# BRACKETS

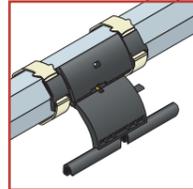
## FOR OPPOSITE SIDE

| BRACKET   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|    | Bracket for SIMU mechanism<br>Delivered with pin                    | 2003617   |
|    | 100 x 100mm plate<br>with 12mm spring                               | 2002645   |
|   | 100 x 100mm plate<br>for Ø42mm bearing ref. 2003447 or ref. 2003448 | 2002644   |
|  | Bracket<br>for Ø42mm bearing ref. 2003447 or ref. 2003448           | 2003442   |
|  | Bracket<br>for Ø42mm bearing ref. 2003447 or ref. 2003448           | 2003443   |
|  | Bracket<br>for Ø28mm bearing ref. 2003455 or ref. 2003454           | 2003446   |
|  | Ø28mm nylon bearing<br>12mm bore                                    | 2003455   |

| BRACKET  | DESCRIPTION                      | REFERENCE |
|--|----------------------------------|-----------|
|   | Ø28mm steel bearing<br>12mm bore | 2003454   |
|   | Ø36mm steel bearing<br>18mm bore | 2002677   |
|   | Ø42mm steel bearing<br>12mm bore | 2003447   |
|  | Ø42mm nylon bearing<br>12mm bore | 2003448   |

# EASYLINK LOCK

## FOR OCTA 40, 50 AND 60 MM TUBES



### THE EASYLINK LOCK IS COMPRISED OF:

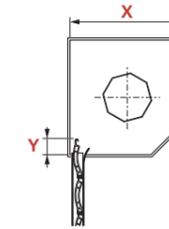
- a ring set with a quick clippable fixing system, for octa 40, 50 and 60 mm
- a fixed element
- 1 or 2 articulated elements

| PRODUCT | TUBE              | DESCRIPTION                      | REFERENCE |         |         |         |         |
|---------|-------------------|----------------------------------|-----------|---------|---------|---------|---------|
|         |                   |                                  | x 1       | x 20    | x 40    | x 300   | x 600   |
|         | Octa 40 / 50 / 60 | Single Easylink link, 1 element  | -         | 2007024 | -       | 2007022 | -       |
|         | Octa 40           | Single Easylink link, 2 elements | -         | 2007147 | -       | -       | -       |
|         | Octa 50 / 60      | Single Easylink link, 2 elements | -         | 2007025 | -       | 2007023 | -       |
|         | Octa 40           | Single Easylink ring             | -         | -       | 2007148 | -       | -       |
|         | Octa 50           | Single Easylink ring             | -         | -       | 2007030 | -       | -       |
|         | Octa 60           | Single Easylink ring             | -         | -       | 2007029 | -       | 2007028 |
|         | Octa 40           | Easylink full set, 1 element     | 2007149   | -       | -       | -       | -       |
|         | Octa 40           | Easylink full set, 2 elements    | 2007150   | -       | -       | -       | -       |
|         | Octa 50           | Easylink full set, 1 element     | 2007033   | -       | -       | -       | -       |
|         | Octa 50           | Easylink full set, 2 elements    | 2007034   | -       | -       | -       | -       |
|         | Octa 60           | Easylink full set, 1 element     | 2007031   | -       | -       | -       | -       |
|         | Octa 60           | Easylink full set, 2 elements    | 2007032   | -       | -       | -       | -       |

### HOW TO CHOOSE AN EASYLINK LOCK

The choice depends on:

- the rolling tube
- the housing side size (X)
- the distance between the top of the first lath and the entry guide (Y)



| TUBE    | LENGTH X | LENGTH MINI Y | LENGTH MAXI Y | NUMBER OF ELEMENT TO CHOOSE |
|---------|----------|---------------|---------------|-----------------------------|
| Octa 40 | 125 mm   | 30 mm         | 70 mm         | 1                           |
| Octa 40 | 137 mm   | 35 mm         | 75 mm         | 1                           |
| Octa 40 | 150 mm   | 40 mm         | 80 mm         | 1                           |
| Octa 40 | 165 mm   | 45 mm         | 85 mm         | 1                           |
| Octa 40 | 180 mm   | 25 mm         | 65 mm         | 2                           |
| Octa 40 | 205 mm   | 30 mm         | 75 mm         | 2                           |
| Octa 50 | 125 mm   | 25 mm         | 65 mm         | 1                           |
| Octa 50 | 137 mm   | 30 mm         | 70 mm         | 1                           |
| Octa 50 | 150 mm   | 35 mm         | 75 mm         | 1                           |
| Octa 50 | 165 mm   | 40 mm         | 80 mm         | 1                           |
| Octa 50 | 180 mm   | 20 mm         | 60 mm         | 2                           |
| Octa 50 | 205 mm   | 60 mm         | 100 mm        | 2                           |
| Octa 60 | 125 mm   | 20 mm         | 60 mm         | 1                           |
| Octa 60 | 137 mm   | 30 mm         | 70 mm         | 1                           |
| Octa 60 | 150 mm   | 40 mm         | 80 mm         | 1                           |
| Octa 60 | 165 mm   | 45 mm         | 85 mm         | 1                           |
| Octa 60 | 180 mm   | 20 mm         | 60 mm         | 2                           |
| Octa 60 | 205 mm   | 60 mm         | 100 mm        | 2                           |

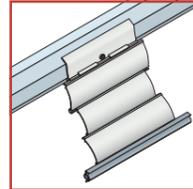
### USING LIMITS

The data in the table below may vary depending on the type of lath used. Contact us.

| NUMBER OF EASYLINK TO CHOOSE | FABRIC LENGTH        | FABRIC WEIGHT |
|------------------------------|----------------------|---------------|
| <p>2 EASYLINK</p>            | $L \leq 1400$        | max. 14 kg    |
| <p>3 EASYLINK</p>            | $1401 \leq L < 2350$ | max. 21 kg    |
| <p>4 EASYLINK</p>            | $2351 \leq L < 3300$ | max. 28 kg    |

# V.A.R. LOCK

## ADJUSTABLE SECURITY LOCK



### THE V.A.R. LOCK IS COMPRISED OF:

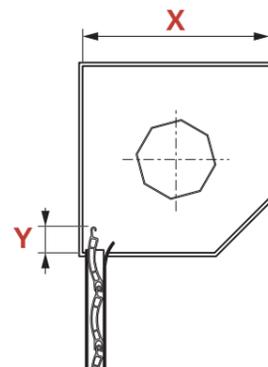
... 1, 2 or 3 elements and it is screwed directly onto an octa 40, 50 or 60 tube  
A block position system allows fine adjustment.

| PRODUCT | TUBE              | DESCRIPTION             | REFERENCE |         |
|---------|-------------------|-------------------------|-----------|---------|
|         |                   |                         | x 20      | x 100   |
|         | Octa 40 / 50 / 60 | V.A.R. 2 screw elements | 9013770   | 9014025 |
|         | Octa 40           | V.A.R. 3 screw elements | 9011311   | 9014026 |
|         | Octa 60           | V.A.R. 3 screw elements | 9011313   | 9014027 |
|         | Octa 50 / 60      | V.A.R. 4 screw elements | 9011314   | 9014028 |
|         |                   | Pack of 200 screws      | 2003337   |         |

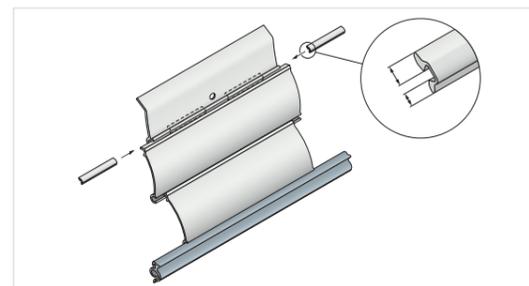
### HOW TO CHOOSE A V.A.R. LOCK

The choice depends on:

- the rolling tube
- the housing side size (X)
- the distance between the top of the first lath and the entry guide (Y)



### HOW TO ADJUST THE BLOCK DELIVERED WITH V.A.R.

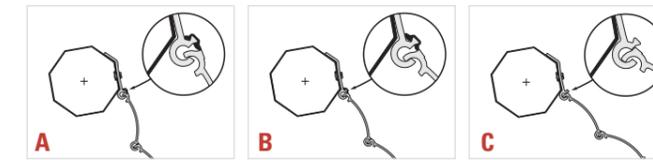


Based on these parameters, the table below gives the right combination to use:

- number of elements



- use of the block position system



| TUBE    | LENGTH Y | LENGTH X |        |        |        |        |        |
|---------|----------|----------|--------|--------|--------|--------|--------|
|         |          | 125 mm   | 140 mm | 150 mm | 165 mm | 180 mm | 205 mm |
| Octa 40 | 10 mm    | A3       | A3     | B3     | C3     | A4     | B4     |
| Octa 40 | 20 mm    | A3       | A3     | B3     | C3     | A4     | B4     |
| Octa 40 | 30 mm    | C2       | A3     | A3     | B3     | C3     | A4     |
| Octa 40 | 40 mm    | C2       | C2     | A3     | B3     | C3     | A4     |
| Octa 40 | 50 mm    | C2       | C2     | A3     | A3     | B3     | A4     |
| Octa 50 | 10 mm    | A3       | B3     | B3     | C3     | A4     | B4     |
| Octa 50 | 20 mm    | C2       | A3     | B3     | B3     | C3     | B4     |
| Octa 50 | 30 mm    | C2       | A3     | B3     | B3     | C3     | A4     |
| Octa 50 | 40 mm    | C2       | C2     | A3     | A3     | B3     | A4     |
| Octa 50 | 50 mm    | C2       | C2     | A3     | A3     | B3     | C3     |
| Octa 60 | 10 mm    | C2       | A3     | B3     | B3     | C3     | B4     |
| Octa 60 | 20 mm    | C2       | A3     | A3     | B3     | C3     | A4     |
| Octa 60 | 30 mm    | C2       | C2     | A3     | B3     | B3     | A4     |
| Octa 60 | 40 mm    | C2       | C2     | C2     | A3     | B3     | C3     |
| Octa 60 | 50 mm    | C2       | C2     | C2     | A3     | B3     | C3     |

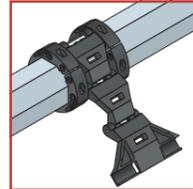
### USING LIMITS

The data in the table below may vary depending on the type of lath used. Contact us if necessary.

| NUMBER OF V.A.R. TO CHOOSE | FABRIC LENGTH        | FABRIC WEIGHT | MAXI MOTOR TORQUE |            |            |
|----------------------------|----------------------|---------------|-------------------|------------|------------|
|                            |                      |               | 2 elements        | 3 elements | 4 elements |
| <br>2 V.A.R.               | $L \leq 1300$        | max. 15 kg    | 11 Nm             | 10 Nm      | 9 Nm       |
| <br>3 V.A.R.               | $1301 \leq L < 2100$ | max. 21 kg    | 15.5 Nm           | 14 Nm      | 12.5 Nm    |
| <br>4 V.A.R.               | $2101 \leq L < 2900$ | max. 26 kg    | 20 Nm             | 18 Nm      | 16 Nm      |

## V.A.S. LOCK

## SECURITY LOCK

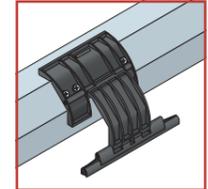


THE SECURITY LOCK IS COMPRISED OF:

- a ring set for octa 40, 60 and 70 tube
- a jointed hinge (it is comprised of 3 or 4 elements and can be hung on the laths 9mm or 14mm)

| PRODUCT   | TUBE    | DESCRIPTION                                | REFERENCE      |                |                |
|---|---------|--|----------------|----------------|----------------|
|   |         |  | x 25           | x 50           | x 100          |
|    | Octa 40 | Single ring                                | -              | <b>9840219</b> | -              |
|    | Octa 60 | Single ring                                | -              | <b>9840227</b> | <b>2006105</b> |
|    | Octa 70 | Single ring                                | -              | <b>2003596</b> | <b>2006104</b> |
|   | -       | V.A.S. hinge, 2 elements, for lath of 9mm  | <b>9840233</b> | -              | -              |
|  | -       | V.A.S. hinge, 3 elements, for lath of 14mm | <b>9840225</b> | -              | -              |
|  | -       | V.A.S. hinge, 4 elements, for lath of 9mm  | <b>9840234</b> | -              | -              |
|  | -       | V.A.S. hinge, 4 elements, for lath of 14mm | <b>9840226</b> | -              | -              |

## RIGID FASTENER



THE RIGID FASTENER IS COMPRISED OF:

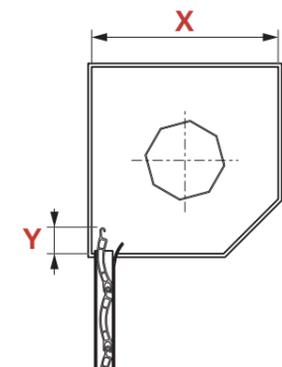
- 1 or 2 elements and is screwed directly on the rolling tube

| PRODUCT   | DESCRIPTION                | REFERENCE      |
|---|----------------------------|----------------|
|  | Rigid fastener, 1 element  | <b>2003496</b> |
|  | Rigid fastener, 2 elements | <b>2003497</b> |
|  | Pack of 200 screws         | <b>2003337</b> |

### HOW TO CHOOSE A RIGID LINK

The choice depends on:

- the housing side size (**X**)
- the distance between the top of the first lath and the entry guide (**Y**)



| BOX X  | MINI LENGTH Y | MAXI LENGTH Y | NUMBER OF ELEMENT TO CHOOSE |
|--------|---------------|---------------|-----------------------------|
| 125 mm | 15 mm         | 45 mm         | 1                           |
| 137 mm | 22 mm         | 60 mm         | 1                           |
| 150 mm | 40 mm         | 70 mm         | 1                           |
| 165 mm | 15 mm         | 50 mm         | 2                           |
| 180 mm | 15 mm         | 55 mm         | 2                           |
| 205 mm | 29 mm         | 80 mm         | 2                           |

## RIGID LINK II



### THE RIGID LINK II IS COMPRISED OF:

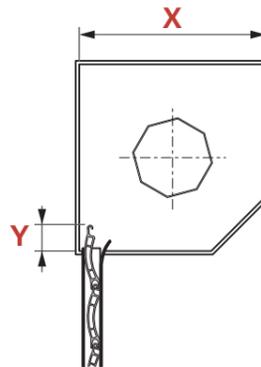
- 1 or 2 or 3 elements and is fixed by fastening wire onto the tubes ZF 54 and ZF 64. It is used with laths 8mm.

| PRODUCT   | TUBE          | DESCRIPTION                                 | REFERENCE |         |         |         |         |
|---|---------------|---|-----------|---------|---------|---------|---------|
|   |               |   | x 15      | x 20    | x 200   | x 300   | x 400   |
|  | ZF 54 / ZF 64 | Rigid link, 1 element, with fastening wire  | -         | 2007793 | -       | -       | 2007794 |
|  | ZF 54 / ZF 64 | Rigid link, 2 elements, with fastening wire | -         | 2007795 | -       | 2007796 | -       |
|  | ZF 54 / ZF 64 | Rigid link, 3 elements, with fastening wire | 2008145   | -       | 2008146 | -       | -       |

### HOW TO CHOOSE A RIGID LINK II

The choice depends on:

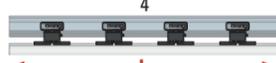
- the housing side size (X)
- the distance between the top of the first lath and the entry guide (Y)



| BOX X  | MINI LENGTH Y | MAXI LENGTH Y | NUMBER OF ELEMENT TO CHOOSE |
|--------|---------------|---------------|-----------------------------|
| 125 mm | 20 mm         | 70 mm         | 1                           |
| 137 mm | 25 mm         | 65 mm         | 1                           |
| 150 mm | 35 mm         | 75 mm         | 1                           |
| 165 mm | 45 mm         | 90 mm         | 1                           |
| 180 mm | 15 mm         | 55 mm         | 2                           |
| 205 mm | 30 mm         | 75 mm         | 2                           |
| 210 mm | 15 mm         | 70 mm         | 3                           |
| 250 mm | 35 mm         | 105 mm        | 3                           |
| 270 mm | 50 mm         | 110 mm        | 3                           |

## USING LIMITS

The data in the table below may vary depending on the type of lath used. Contact us if necessary.

| NUMBER OF ELEMENT TO CHOOSE  | FABRIC LENGTH        | FABRIC WEIGHT | MAXI MOTOR TORQUE |
|--|----------------------|---------------|-------------------|
| <br>2 | $L \leq 1400$        | max. 14 kg    | 10 Nm             |
| <br>3 | $1401 \leq L < 2350$ | max. 21 kg    | 15 Nm             |
| <br>4 | $2351 \leq L < 3300$ | max. 28 kg    | 20 Nm             |

Not compatible with gears which are not equipped with end-limit system that is non-disengagable.

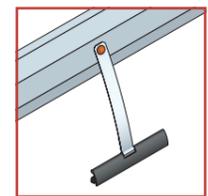
Maxi stopping torque 8Nm.

It is recommended that you check the use of rigid links with tests on the end-product.

## SPRING FASTENER

### THE SPRING FASTENER IS COMPRISED OF:

- a 130mm, 170mm or 190mm stainless steel fastener
- a fixing plate that can be adapted onto 9 or 14mm roller shutter laths



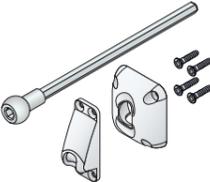
### IMPORTANT

The choice of the length of the spring fastener (130mm, 170mm or 190mm) depends on the size of the box.

| PRODUCT   | DESCRIPTION   | REFERENCE x 200 |
|---|---|-----------------|
|  | Spring fastener, stainless steel, length 130mm, for lath 9mm  | 2003352         |
|   | Spring fastener, stainless steel, length 170mm, for lath 9mm  | 2003354         |
|   | Spring fastener, stainless steel, length 190mm, for lath 14mm | 2003358         |

## ACCESSORIES FOR MANUAL OVERRIDE

### FOR DMI MOTORS

| PRODUCT   | DESCRIPTION                          | REFERENCE |         |
|---|--------------------------------------|-----------|---------|
|   |                                      | x 1       | x 10    |
|    | DMI ring, length 63mm, 7mm hexa rod  | 9016332   | -       |
|   | DMI ring, length 165mm, 7mm hexa rod | 9685136   | -       |
|   | DMI ring, length 325mm, 7mm hexa rod | 9000848   | -       |
|   | Crank hook, length 1200mm            | 2006527   | 2006528 |
|  | Invisible joint, white               | 9685142   | -       |
|  | Crank for invisible joint, white     | 2006637   | 2006638 |

## ACCESSORIES

### FOR MANUAL OVERRIDE WITH DIFFERENTIAL

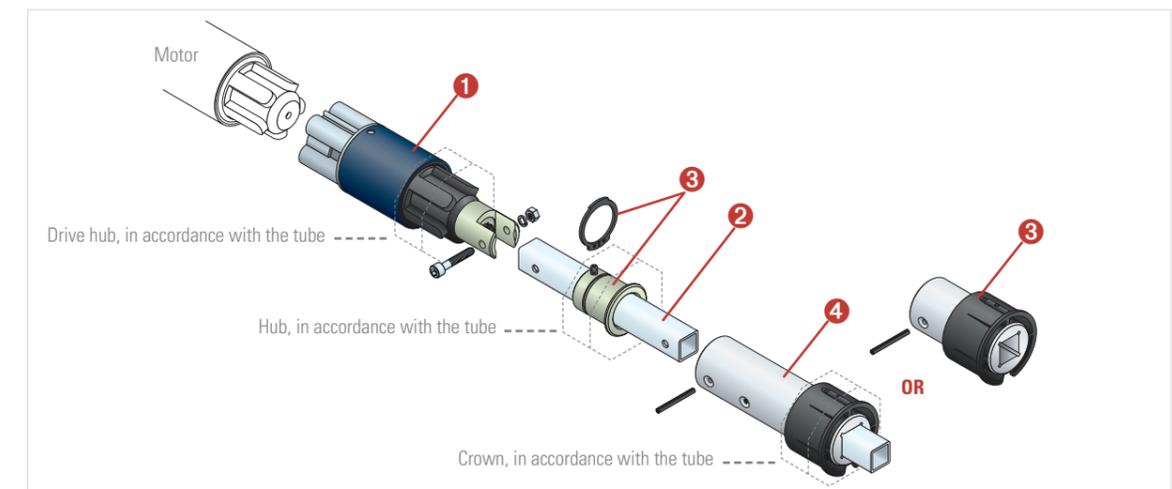
### AND GEAR ON THE OPPOSITE SIDE

#### THE MANUAL OVERRIDE WITH DIFFERENTIAL AND GEAR ON THE OPPOSITE SIDE

...enables manual operation of the roller shutter thanks to a gear in case of power cut.

Two types of end caps, fixed or telescopic, enable the size to be modified.

This system is not compatible with motors with electronic end-limit system.



| N° | PRODUCT   | DESCRIPTION  | REFERENCE |
|----|---|--|-----------|
| 1  |  | Differential, maxi motor torque 40Nm   | 9257410   |
| 2  |  | Square link, 16mm square   | 9232000   |
| 3  |  | Short fixed end cap and intermediate bearing   | 9410730   |
| 4  |  | Telescopic end cap and intermediate bearing  | 9410731   |
|    |  | Gear 1424, without end-limit<br>Input 7mm hexa and output 16mm square<br>Reduction ratio 5/1 | 2002143   |
|    |  | Gear 1424, without end-limit<br>Input 7mm hexa and output 16mm square<br>Reduction ratio 8/1 | 2002145   |

SIMU-Hz CONTROLS AND AUTOMATION p 94

WIRED CONTROLS AND AUTOMATION p 112

CONTROLS FOR DIRECT CURRENT MOTORS p 126

CONTROLS AND ACCESSORIES FOR ROLLING GARAGE DOORS p 128

CONTROLS

AND AUTOMATION



## RADIO RANGE

## BENEFITS FOR EVERYONE

### FOR PROFESSIONALS

### MANUFACTURERS, ASSEMBLERS AND INSTALLERS



#### SAVE TIME AND REDUCE THE CONSTRAINTS ON ASSEMBLY AND INSTALLATION

No wiring for controls, no hole to make and filling, no wireway to install.

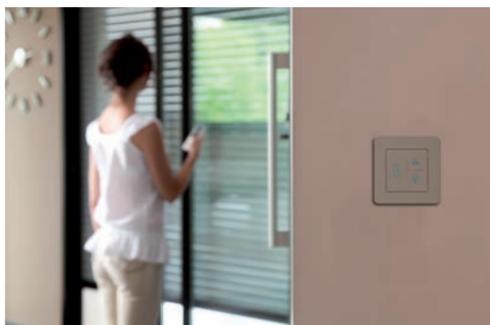
#### EASY SETUP

The radio protocol and setting modes are similar to the full SIMU-Hz radio offer: less risk of error and less After Sales Service.

#### A COMPLETE RANGE OF PRODUCTS AND FUNCTIONALITIES

Range of motors, controls and automation offering all the functionalities of comfort and safety to meet all expectations.

### FOR END-USERS



#### WORKS LIMITED

No wiring for the controls so there is no damage to walls and interiors.

#### COMFORT OF USE

Organise the house shutters easily and without limits: by roller shutter, by zone or centralization.

#### UPGRADABLE

Possibility to add new controls or new automation at any time.

#### ACCESS TO COMFORT AND BENEFITS OF AUTOMATION

Automation provides more comfort to the user who will no longer need to worry about the shutters. It improves the security of the home by managing openings and closings when the house is unoccupied. It also enables energy savings through better management of heat and sunlight.

### AUTOMATION:

### THE KEY FUNCTIONS OF SIMU AUTOMATIONS



INSULATION

#### TWILIGHT FUNCTION

Enables automatic calibration of shutter closing on sunset. Result: smart control of the shutter closing in winter **to reduce energy** losses to the maximum, **saving up to 10% \* on heating bill.**



SIMPLICITY

#### MEMORY FUNCTION

A simple long press to record the current time as the time to open or close the shutters, without entering the setting mode.



SECURITY

#### OCCUPANT SIMULATION PRESENCE FUNCTION

The house will appear lived-in, even when the occupants are away thanks to the presence simulation which randomly shifts the preset opening and closing times by 0 to +30 minutes.



SOLAR PROTECTION

#### SUMMER COMFORT FUNCTION

Depending on the level of brightness outside, it manages the shutter opening and closing to take advantage of the summer light while protecting the house from the outside heat: **up to 9 ° C\* less in the house!**



Programmable remote control  
TIMER Multi  
6 channels



Programmable remote control  
TIMER Easy  
1 channel



Programmable remote control  
TIMER Multi  
6 channels



Programmable remote control  
TIMER Easy  
1 channel



SUNS SENSOR  
FOR INDOOR

\* Physibel study conducted for ES-SO, European Solar Shading Organization.

|             |   |   |   |
|-------------|---|---|---|
| TO CONTROL  | <p><b>INDIVIDUAL CONTROL</b></p> <p>One control point per roller shutter to manage each one of the closures</p> <p>Wall transmitter COLOR+ 1 channel <b>page 98</b></p> <p>Remote control COLOR+ 1 1 channel <b>page 100</b></p>                    | <p><b>ADVANCED HOME MANAGEMENT</b></p> <p>To organize and manage the house by area: by room, by floor, etc.</p> <p>Remote control COLOR+ 5 5 channels <b>page 101</b></p> <p>Remote control COLOR Multi 16 channels <b>page 102</b></p> | <p><b>CENTRALIZATION</b></p> <p>Control point to command all of the shutters of the house</p> <p><b>NOTE</b><br/>All SIMU controls can be used to set up a centralized system for the whole house</p> |
|             | <p><b>...WITH TIMER</b></p> <p>All shutters open and close automatically, morning and evening</p> <p>Programmable remote control TIMER Easy 1 channel <b>page 104</b></p> <p>Programmable remote control TIMER Multi 6 channels <b>page 106</b></p> | <p><b>...WITH SENSOR</b></p> <p>To manage the opening and closing of a shutter according to sunlight.</p> <p>SUN SENSOR FOR INDOOR <b>page 108</b></p>  |   |
|             | <p><b>TO PROVIDE ACCESS TO THE CONVENIENCE OF RADIO CONTROL IN AN EXISTING WIRED INSTALLATION</b></p> <p>HZ RECEIVER <b>page 109</b></p> <p>MICRO RECEIVER HZ FOR ROLLER SHUTTER <b>page 110</b></p>  | <p><b>TO CONTROL A LIGHT WITH A SIMU-HZ TRANSMITTER</b></p> <p>MICRO RECEIVER HZ FOR LIGHTING <b>page 111</b></p>   |   |
| TO AUTOMATE | CONTROLS AND AUTOMATION   |   |   |
|             |   |   | TO MODERNIZE  |

# RADIO CONTROL

## COLOR+ WALL TRANSMITTER



### 1 CHANNEL WALL TRANSMITTER

**USE:**

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



| DESCRIPTION        | COLOUR       | REFERENCE |         |         |
|--------------------|--------------|-----------|---------|---------|
|                    |              | x1        | x10     | x100    |
| COLOR+ transmitter | White        | 2008194   | 2008195 | 2008196 |
| COLOR+ transmitter | Grey         | 2008197   | -       | -       |
| COLOR+ transmitter | Anthracite   | 2008198   | -       | -       |
| COLOR+ transmitter | Mocha        | 2008199   | -       | -       |
| COLOR+ transmitter | Blackcurrant | 2008200   | -       | -       |
| COLOR+ transmitter | Blue         | 2008201   | -       | -       |

Delivered with battery (screws for wall fixation not included).

6 COLOURS AVAILABLE, WITH A MATT FINISH



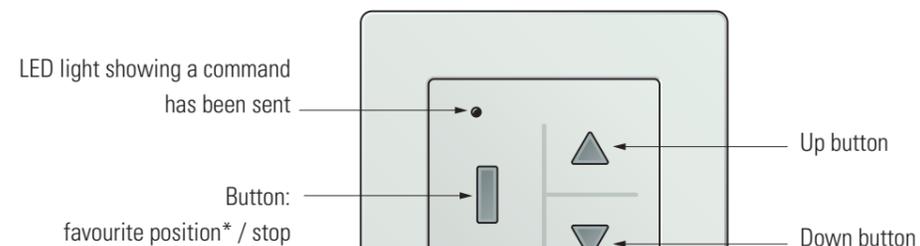
### COLOUR COMBINATIONS

Frames can be ordered separately in order to create specific colour combinations.

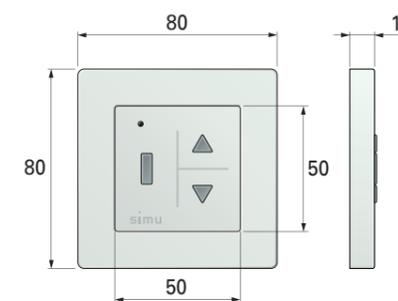


| DESCRIPTION        | REFERENCE x1 |
|--------------------|--------------|
| White frame        | 9017805      |
| Grey frame         | 9017806      |
| Anthracite frame   | 9017807      |
| Mocha frame        | 9017808      |
| Blackcurrant frame | 9017809      |
| Blue frame         | 9017810      |

### SPECIFICATION



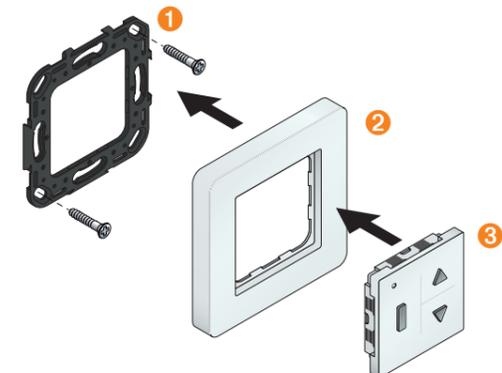
\* If the motor being controlled is compatible with this function.



- PRODUCT CLASS** class III
- POWER SUPPLY** 3V - type CR2430 battery
- AMBIENT TEMPERATURE OF USE** from 0°C to +60°C
- PROTECTION INDEX** IP 30
- RANGE** ~ 200 m in free field and ~ 20 m through 2 reinforced concrete walls (depends on the environment and radio pollution)
- RADIO FREQUENCY** 433.42 MHz
- COMPATIBILITY** Hz Motors and external receivers



### ASSEMBLY



- ATTACH THE BRACKET TO THE WALL
- CLIP THE FRAME TO THE BRACKET
- CLIP THE MODULE \* TO THE FRAME

\*Module also compatible with other electrical device frames available on the market. Please ask us.

RADIO CONTROL

COLOR+ 1 REMOTE CONTROL



1 CHANNEL REMOTE CONTROL

USE:

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

| DESCRIPTION             | COLOUR       | REFERENCE |
|-------------------------|--------------|-----------|
| COLOR+ 1 remote control | White        | 2008202   |
| COLOR+ 1 remote control | Grey         | 2008203   |
| COLOR+ 1 remote control | Anthracite   | 2008204   |
| COLOR+ 1 remote control | Mocha        | 2008205   |
| COLOR+ 1 remote control | Blackcurrant | 2008206   |
| COLOR+ 1 remote control | Blue         | 2008207   |

Delivered with battery and wall bracket (screws not included).

6 COLOURS AVAILABLE, WITH A MATT FINISH



RADIO CONTROL

COLOR+ 5 REMOTE CONTROL



5 CHANNELS REMOTE CONTROL

... enabling up to 5 shutters or groups to be controlled.

USE:

- Individual control.
- Control by area: by room, by floor, etc.
- Centralization.

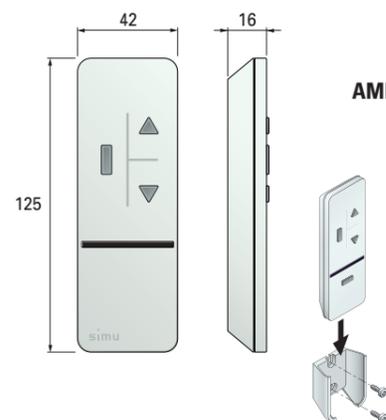
| DESCRIPTION             | COLOUR       | REFERENCE |
|-------------------------|--------------|-----------|
| COLOR+ 5 remote control | White        | 2008208   |
| COLOR+ 5 remote control | Grey         | 2008209   |
| COLOR+ 5 remote control | Anthracite   | 2008210   |
| COLOR+ 5 remote control | Mocha        | 2008211   |
| COLOR+ 5 remote control | Blackcurrant | 2008212   |
| COLOR+ 5 remote control | Blue         | 2008213   |

Delivered with battery and wall bracket (screws not included).

6 COLOURS AVAILABLE, WITH A MATT FINISH



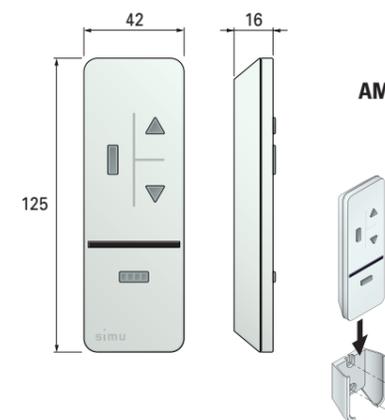
SPECIFICATION



**PRODUCT CLASS** class III  
**POWER SUPPLY** 3V - type CR2430 battery  
**AMBIENT TEMPERATURE OF USE** from 0°C to +60°C  
**PROTECTION INDEX** IP 30  
**RANGE** ~ 200 m in free field  
 ~ 20 m through 2 reinforced concrete walls  
 (depends on the environment and radio pollution)  
**RADIO FREQUENCY** 433.42 MHz  
**COMPATIBILITY** Hz Motors and external receivers



SPECIFICATION



**PRODUCT CLASS** class III  
**POWER SUPPLY** 3V - type CR2430 battery  
**AMBIENT TEMPERATURE OF USE** from 0°C to +60°C  
**PROTECTION INDEX** IP 30  
**RANGE** ~ 200 m in free field  
 ~ 20 m through 2 reinforced concrete walls  
 (depends on the environment and radio pollution)  
**RADIO FREQUENCY** 433.42 MHz  
**COMPATIBILITY** Hz Motors and external receivers



## RADIO CONTROL

### COLOR MULTI REMOTE CONTROL



#### 16 CHANNEL REMOTE CONTROL

... enabling up to 16 shutters or groups of shutters to be controlled.

#### USE:

- Individual control.
- Control by area: by room, by floor, etc.
- Centralization.

| DESCRIPTION                | COLOUR | REFERENCE |
|----------------------------|--------|-----------|
| COLOR MULTI remote control | White  | 2007348   |
| COLOR MULTI remote control | Grey   | 2007349   |

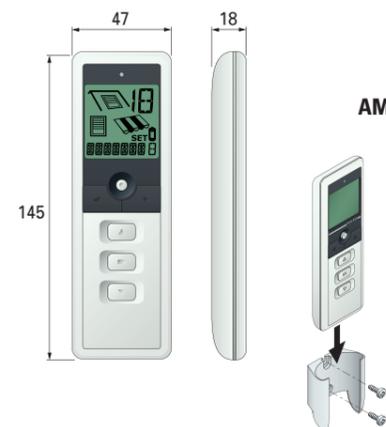
Delivered with battery and wall bracket (screws not included).

### PRODUCT BENEFITS

ADVANCED HOME MANAGEMENT: each one of the 16 channels can be used for individual, area or centralized control.

LCD SCREEN ENABLING EACH CONTROL/CHANNEL TO BE CUSTOMIZED: naming (7 letters + 1 figure) + channel number (from 1 to 16) + Selected channel pictogram (facade or roof shutter or awning).

### SPECIFICATION



|                                   |  |
|-----------------------------------|--|
| <b>PRODUCT CLASS</b>              | class III  |
| <b>POWER SUPPLY</b>               | 2x1,5V batteries - LR03 AAA type   |
| <b>AMBIENT TEMPERATURE OF USE</b> | from 0°C to +60°C  |
| <b>PROTECTION INDEX</b>           | IP 20  |
| <b>RANGE</b>                      | ~ 200 m in free field<br>~ 20 m through 2 reinforced concrete walls<br>(depends of the environment and of the pollution) |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>COMPATIBILITY</b>              | Hz Motors and external Hz receivers  |



## RADIO CONTROL

### DRY CONTACT Hz TRANSMITTER



#### DRY CONTACT Hz TRANSMITTER

#### USE:

- Enables one or several radio motors to be controlled with a secure key box (sold separately). See page 122.
- Indoor use.

| DESCRIPTION                | REFERENCE |
|----------------------------|-----------|
| DRY CONTACT Hz TRANSMITTER | 2006020   |
| ACCESSORIES                | REFERENCE |
| Surface mounting box       | 9154122   |

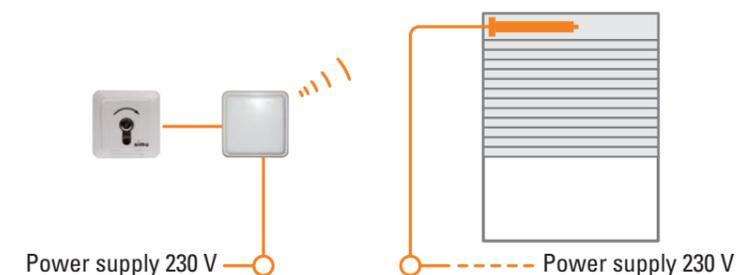
### SPECIFICATION

|                                   |  |
|-----------------------------------|--|
| <b>PRODUCT CLASS</b>              | class III  |
| <b>POWER SUPPLY</b>               | 230 V - 50 Hz  |
| <b>AMBIENT TEMPERATURE OF USE</b> | from +5°C to +40°C   |
| <b>PROTECTION INDEX</b>           | IP 30  |
| <b>RANGE</b>                      | ~ 200 m in free field<br>~ 20 m through 2 reinforced concrete walls<br>(depends of the environment and of the pollution) |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>COMPATIBILITY</b>              | Hz Motors and external Hz receivers  |
| <b>ASSEMBLY</b>                   | Flush mounting<br>or surface mouting (with the box ref. 9154122)   |
| <b>DIMENSIONS</b>                 | 80 x 80 x 45 mm  |



### OPERATING PRINCIPLE

The key box is connected to the dry contact transmitter which transmits the control orders to the radio motor.



# RADIO AUTOMATION

## TIMER EASY REMOTE CONTROL



### 1 CHANNEL PROGRAMMABLE REMOTE CONTROL

**USE:**

- Centralization and home automation.
- Use in manual or automatic mode.

| DESCRIPTION               | COLOUR | REFERENCE |
|---------------------------|--------|-----------|
| TIMER EASY remote control | White  | 2008188   |
| TIMER EASY remote control | Grey   | 2008189   |

Delivered with battery and wall bracket (screws not included).

### PRODUCT BENEFITS

**THE COMFORT OF AUTOMATIC CENTRAL CONTROL:** TIMER Easy enables 1 opening and 1 closing per day of all the house's roller shutters to be programmed.

**READY TO USE:** For easy and quick setting, it is delivered already programmed. Opens at 7.30 am and closes at 8.00 pm, and automatically changes for winter/summer time (Paris/Europe time zone).

**PROGRAMMING IS EASY TO CHANGE:** Thanks to the «memory» function, simply pressing the up or down button for 8 seconds saves the current time for the opening or closing of the roller shutters every day.

**CAN BE PERSONALISED:** TIMER Easy also enables a more specific programming to be set, to open and close the shutters at different times on work days and days at home.

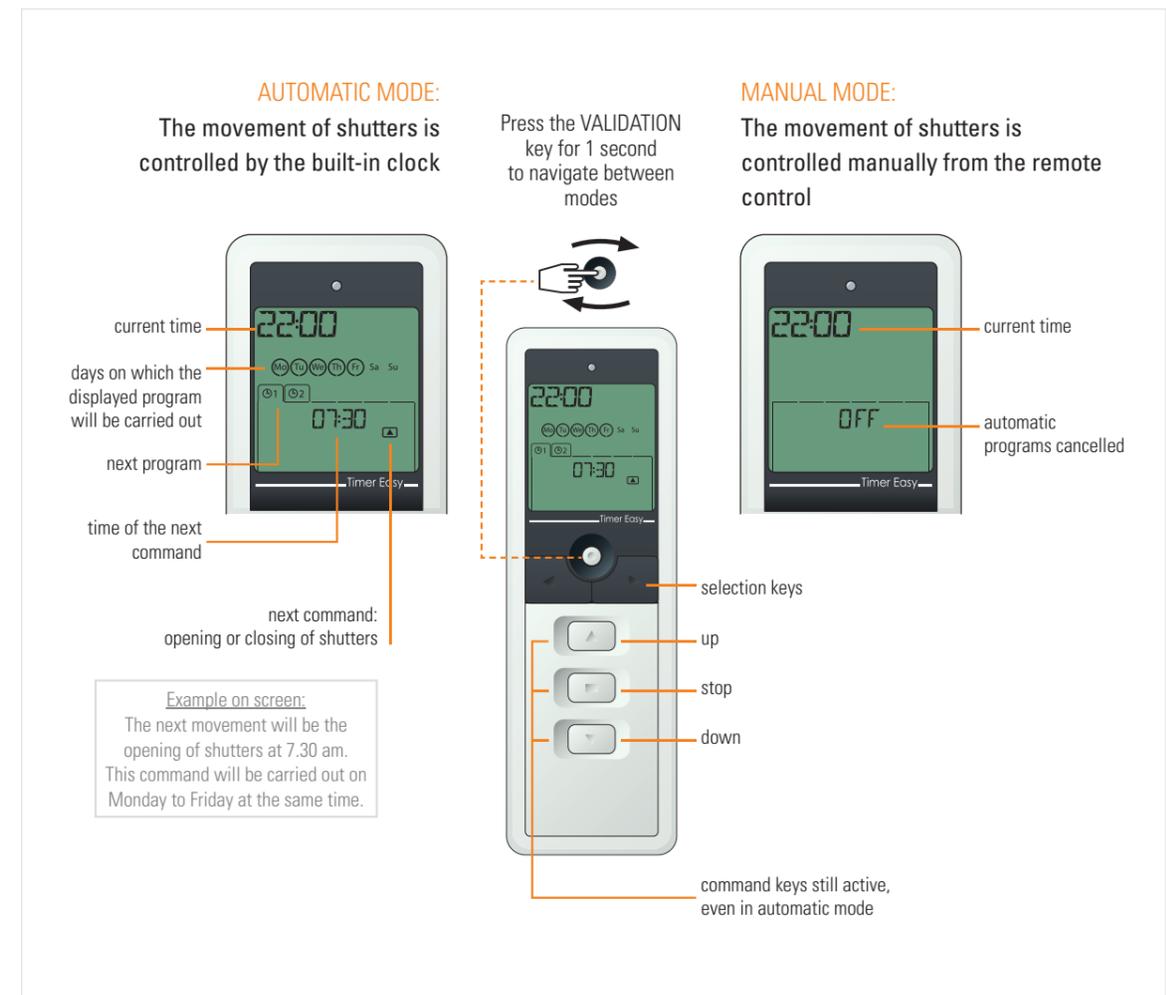
**MORE SAFETY:** When you are away, the house will appear lived-in thanks to the occupant presence simulation which, when activated, randomly shifts the preset opening and closing times by 0 to +30 minutes.

**FLEXIBLE USE:** TIMER Easy can easily be switched off at any time and used simply as a manual centralised system.

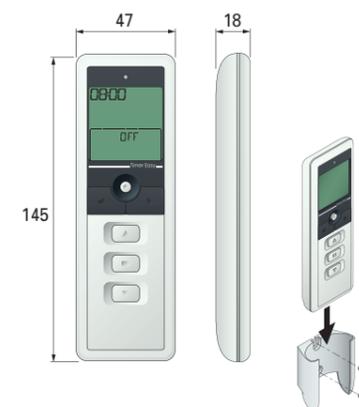
### OPERATING PRINCIPLE

**2 POSSIBILITIES IN AUTOMATIC MODE:**

- Daily mode: same program every day.
- Work/rest mode: one program on work days and another one on rest days.



### SPECIFICATION



- PRODUCT CLASS** class III
- POWER SUPPLY** 2x1.5V batteries - LR03 AAA type
- AMBIENT TEMPERATURE OF USE** from +0°C to +60°C
- PROTECTION INDEX** IP 20
- RANGE** ~ 200 m in free field  
~ 20 m between 2 reinforced concrete walls (depends of the environment and of the pollution)
- RADIO FREQUENCY** 433.42 MHz
- COMPATIBILITY** Hz Motors and external Hz receiver



# RADIO AUTOMATION

## TIMER MULTI REMOTE CONTROL



**6 CHANNEL PROGRAMMABLE REMOTE CONTROL**  
...enabling up to 6 shutters or groups of shutters to be controlled.

**USE:**  
- Automation and advanced home management.  
- Use in manual or automatic mode.

| DESCRIPTION                       | COLOUR | REFERENCE      |
|-----------------------------------|--------|----------------|
| <b>TIMER MULTI remote control</b> | White  | <b>2007830</b> |
| <b>TIMER MULTI remote control</b> | Grey   | <b>2007831</b> |

Delivered with battery and wall bracket (screws not included).

### PRODUCT BENEFITS

**CREATION OF CUSTOMISED SCENARIOS:** TIMER Multi can register up to 6 programs per day. Each of these programs can control one or several of the six channels of the remote control. Every day the programs can be different.

**ENERGY SAVING:** thanks to the twilight function, the shutters can automatically close at sunset time, to better insulate the house from the outside cold in winter.

**MORE SAFETY:** When you are away, the house will appear lived-in thanks to the occupant presence simulation which, when activated, randomly shifts the preset opening and closing times by 0 to +30 minutes.

**SIMPLIFIED PROGRAMMING:** the "copy/paste" function allows the programming to be quickly duplicated, when they are the same for several days of the week.

**CUSTOMIZABLE SCREEN:** The LCD screen allows a name to be stored for each channel (5 letters + 1 digit, from 1 to 6).

**FLEXIBLE USE:** TIMER Multi can easily be switched off at any time and used only as a manual centralised system.

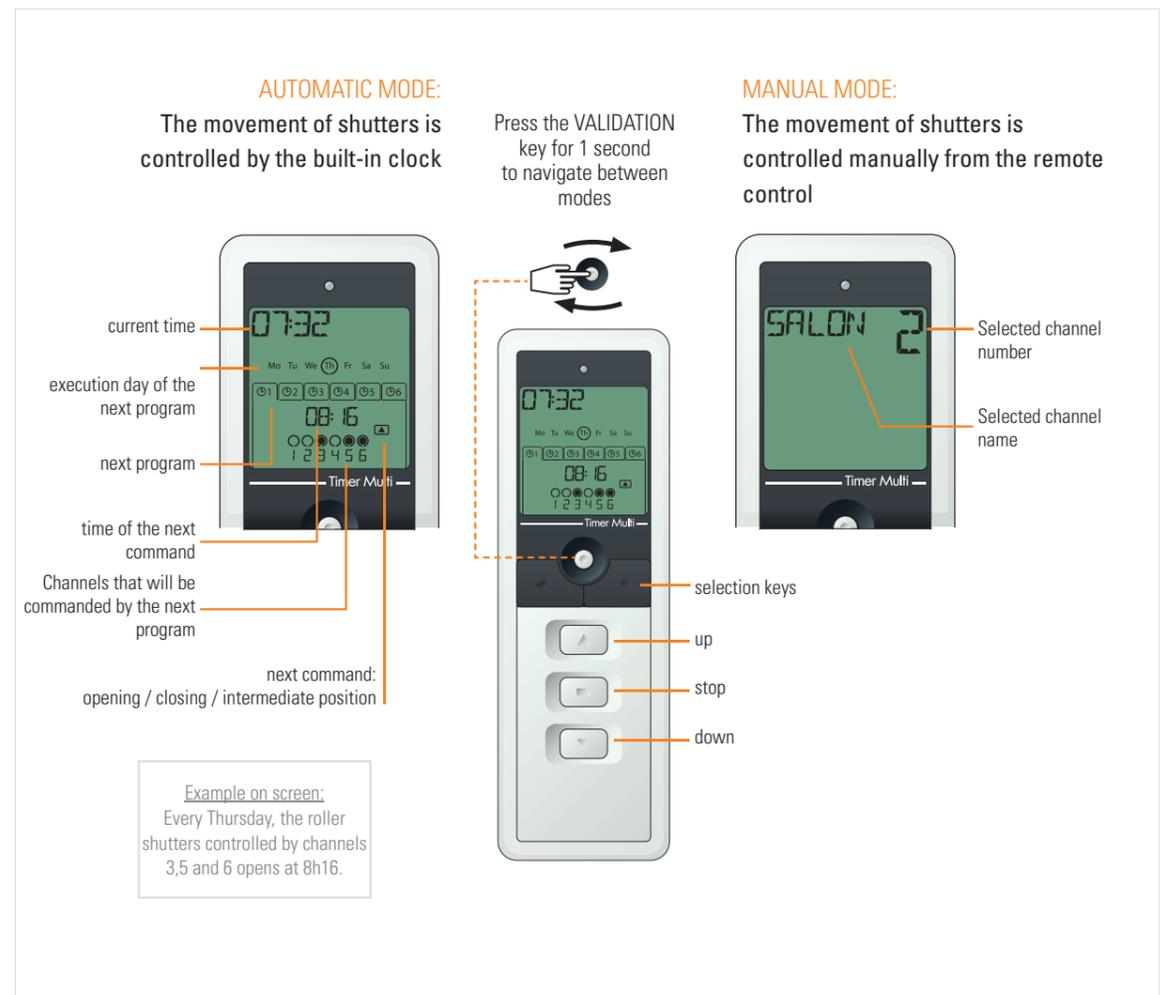
**OTHER:** Automatic switching summer / winter time (in Europe area).

### NOTE

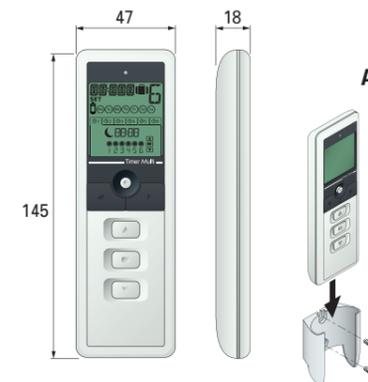
[www.timer-multi.com](http://www.timer-multi.com) : Programming support website with demo/explanation videos.



### OPERATING PRINCIPLE



### SPECIFICATION



**PRODUCT CLASS** class III  
**POWER SUPPLY** 2x1.5V batteries - LR03 AAA type  
**AMBIENT TEMPERATURE OF USE** from +0°C to +60°C  
**PROTECTION INDEX** IP 20  
**RANGE** ~ 200 m in free field  
 ~ 20 m through 2 reinforced concrete walls (depends of the environment and of the pollution)  
**RADIO FREQUENCY** 433.42 MHz  
**COMPATIBILITY** Hz Motors and external Hz receivers



# RADIO AUTOMATION

## SUN SENSOR FOR INDOOR



### SUN SENSOR

**USE:**

- Automation of a roller shutter according to the sunlight.

| DESCRIPTION       | REFERENCE |
|-------------------|-----------|
| Indoor sun sensor | 2008177   |

Delivered with suction cup

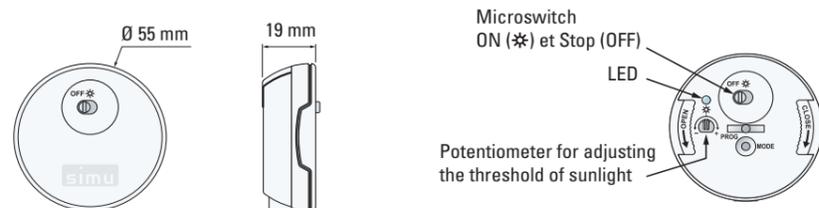
### PRODUCT BENEFITS

**COMFORT IN SUMMER:** The indoor sun sensor automatically controls the opening and closure of a shutter according to the sunlight.

**USEFUL:** It is positioned directly onto the glass of the window, thanks to a suction cup. To change the stopping level of the shutter, you just have to reposition the sensor.

**EASY ACTIVATION/DEACTIVATION,** thanks to an ON/OFF switch on the front.

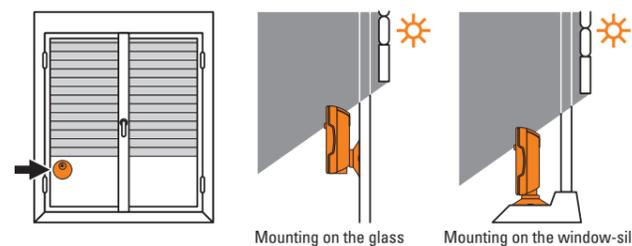
### SPECIFICATION



|                                   |   |
|-----------------------------------|---|
| <b>PRODUCT CLASS</b>              | class III   |
| <b>POWER SUPPLY</b>               | 3V lithium battery - type CR2430                                  |
| <b>AMBIENT TEMPERATURE OF USE</b> | 0°C to +60°C  |
| <b>PROTECTION INDEX</b>           | IP 31   |
| <b>RANGE</b>                      | ~150 m in free field and ~6 m between 2 reinforced concrete walls |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz  |
| <b>COMPATIBILITY</b>              | Hz motors and Hz receivers  |



### OPERATING PRINCIPLE



**The sunlight level is below the preset threshold:**  
- no action.

**The sunlight level exceeds the preset threshold:**  
- the shutter goes down automatically and is positioned at the same level as the sensor.

**NOTE :** If the shutter is closed, the sensor is inactive.

# RECEIVER

## Hz RECEIVER



### EXTERNAL RADIO RECEIVER

... for a modernisation or new installation.

**USE:**

- It equips wired motors with the SIMU-Hz radio technology.

| DESCRIPTION                               | REFERENCE | REFERENCE |
|---|-----------|-----------|
|   | x1        | x10       |
| Hz RECEIVER (for all wired motors)        | 2004873   | 2004872   |
| Hz RECEIVER (for T5 Auto and T5 E motors) | 2004875   | 2004874   |

The wired motors must have been previously equipped with a terminal block. See accessories.  
The receiver Hz motor is delivered with a wired connection box.

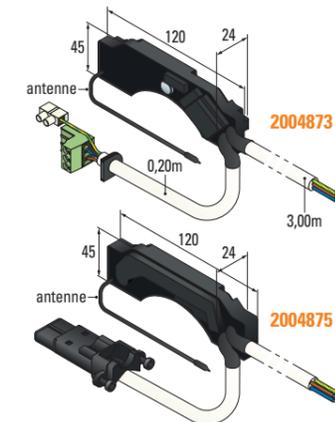
### FUNCTIONS AND PRODUCT BENEFITS

It fits directly into the roller shutter on a universal bracket from 150 mm.

**QUICK TO INSTALL:** connection to the motor is quick and easy, thanks to the terminal block.

Compatible with all controls and automation of the SIMU-Hz range.

### SPECIFICATION



|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 230 V - 50 Hz  |
| <b>AMBIENT TEMPERATURE OF USE</b> | -30°C / +80°C  |
| <b>PROTECTION INDEX</b>           | IP 44  |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>COMPATIBILITY MOTOR</b>        | With T3.5, T5 and DMI5 (réf. 2004873) and T5 AUTO (réf. 2004875)                   |
| <b>TRANSMITTER COMPATIBILITY</b>  | The entire range of SIMU-Hz transmitters (maximum of 12 transmitters per receiver) |



### ACCESSORIES

| PRODUCT | DESCRIPTION                                 | REFERENCE |
|---------|---|-----------|
|         |   | x 10      |
|         | Terminal block for T3.5, T5 and DMI5 motors | 9011670   |
|         | Box for terminal block - IP44               | 2005028   |

# RECEIVER



## MICRO-RECEIVER HZ FOR ROLLER SHUTTERS



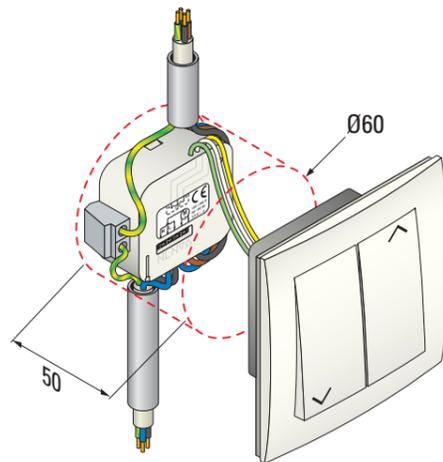
EXTERNAL RADIO RECEIVER  
...for modernization or new installation

**USE:**  
- It equips wired motors with the SIMU-Hz radio technology,  
**while retaining the original wired switch in individual control.**

| DESCRIPTION                           | REFERENCE |
|---------------------------------------|-----------|
| Micro-receiver Hz for roller shutters | 2008191   |

Delivered with 3 connection wires to the switch.

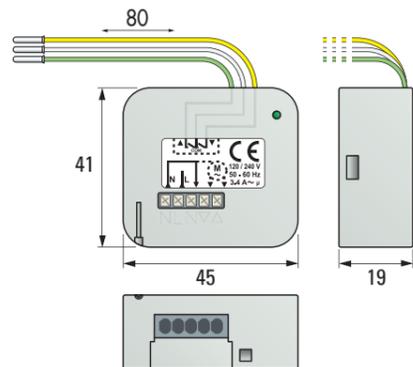
### FUNCTIONS AND PRODUCT BENEFITS



**QUICK AND EASY TO INSTALL:**  
Thanks to its compact size and automatic terminal block, it fits behind the switch in the electrical wallbox (Recommended wallbox depth: 50 mm minimum).

**IDEAL:**  
- To add a SIMU-Hz radio centralization and automation in a wired installation.  
- To maintain the aesthetics of switches, especially in the case of a new installation.

### SPECIFICATION



**PRODUCT CLASS** class III  
**POWER SUPPLY** 230 volts 50/60Hz or 120 Volts 50/60Hz  
**AMBIENT TEMPERATURE OF USE** -20°C / +55°C  
**PROTECTION INDEX** IP 20 (after installation)  
**MOTOR COMPATIBILITY** All SIMU wired motors  
**MAX MOTOR POWER** 3A/240V or 3.4A/120V  
**TRANSMITTER COMPATIBILITY** The entire range of SIMU-Hz transmitters (maximum of 12 transmitters per receiver)  
**SWITCH COMPATIBILITY** stable and unstable  
**RADIO FREQUENCY** 433.42 MHz



# RECEIVER



## MICRO-RECEIVER HZ FOR LIGHTING



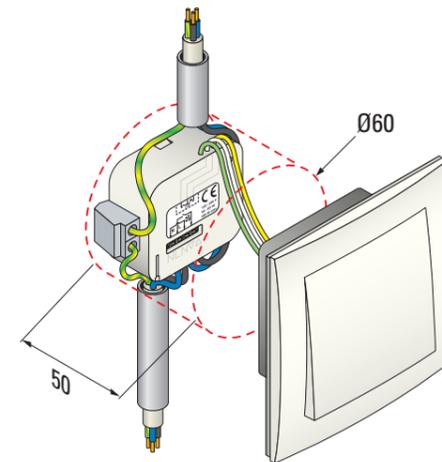
EXTERNAL RADIO RECEIVER  
...for lighting

**USE:**  
- allows the control of a light with SIMU-Hz radio technology,  
**while retaining the original wired switch in instable mode.**

| DESCRIPTION                    | REFERENCE |
|--------------------------------|-----------|
| Micro-receiver Hz for lighting | 2008193   |

Delivered with 3 connection wires to the switch.

### FUNCTIONS AND PRODUCT BENEFITS

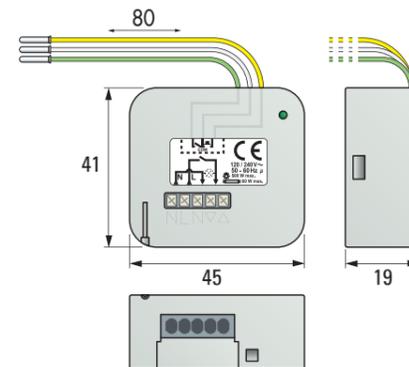


**QUICK AND EASY TO INSTALL:**  
Thanks to its compact size and automatic terminal block, it fits behind the switch in the electrical wallbox (Recommended wallbox depth: 50 mm minimum).

**COMPATIBLE** with the entire range of SIMU-Hz transmitters and automation (timer).

**USEFUL:**  
Using a multichannel remote, it is possible to control or automate both shutters and lighting.

### SPECIFICATION



**PRODUCT CLASS** class III  
**POWER SUPPLY** 230 volts 50/60Hz or 120 Volts 50/60Hz  
**AMBIENT TEMPERATURE OF USE** -20°C / +55°C  
**PROTECTION INDEX** IP 20 (after installation)  
**CONTROL OUTPUT** 500 W for halogen lamps  
**CONTROL OUTPUT** 60 W for CFL/LEDs  
**TRANSMITTER COMPATIBILITY** The entire range of SIMU-Hz transmitters (maximum of 12 transmitters per receiver)  
**SWITCH COMPATIBILITY** stable and push button  
**RADIO FREQUENCY** 433.42 MHz



TO CONTROL

INDIVIDUAL CONTROL



Switch PM3  
page 114



Switch APEM  
page 116



Switch ARNOULD ESPACE  
page 115

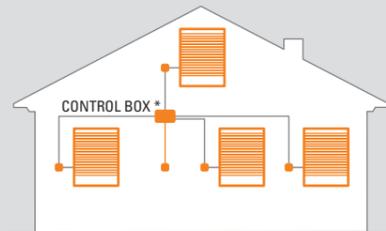


Switch ARNOULD PROFIL LUMIÈRE  
page 114



Switch LEGRAND MOSAÏC  
page 115

GROUPED CONTROL BY CONTROL BOX



Switch PM3  
page 114



Switch ARNOULD PROFIL LUMIÈRE  
page 114



Switch APEM  
page 116



Switch ARNOULD ESPACE  
page 115



Switch LEGRAND MOSAÏC  
page 115

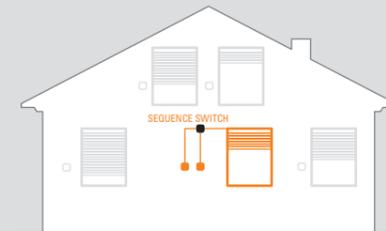
ACCESSORIES



Control box 4 motors  
page 124

\* When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.

MULTIPOINT CONTROL BY PUSH BUTTON AND SEQUENCE SWITCH



Push button ARNOULD ESPACE  
page 118



Push button LEGRAND MOSAÏC  
page 119



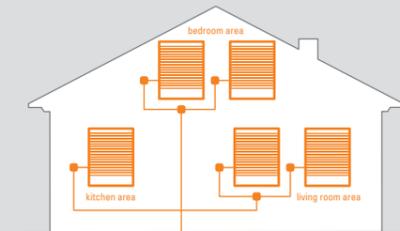
Waterproof push button  
page 119

ACCESSORIES



Sequence switch  
page 119

HIERARCHIZED CONTROL BY PILOT WIRE



Wired switch INDIVIDUAL CEGED BUS  
page 120



Wired switch GROUPED CEGED BUS  
page 120

TO AUTOMATE

HOME AUTOMATION

WITH A TIMER

INDIVIDUAL CONTROL

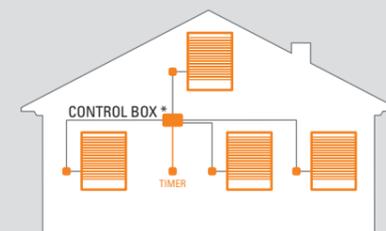


Daily or weekly wired timer  
page 121



Daily or weekly wired timer  
page 121

GROUPED CONTROL BY CONTROL BOX



ACCESSORIES



Control box 4 motors  
page 124

\* When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.

# WIRED CONTROLS

## STANDARD SWITCHES – 230V

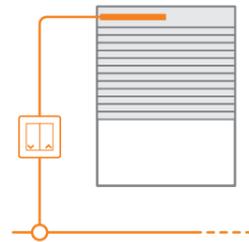
### NOTE

**STABLE SWITCH:** simply press down once to activate.

**UNSTABLE SWITCH:** the switch must be held down throughout the action.

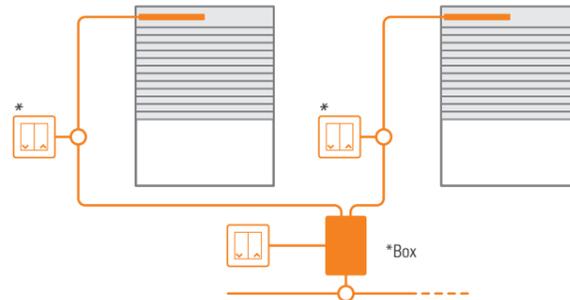
### USE:

- Individual control



### USE:

- Grouped control, with control box (page 124)



\* When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.



Dimensions: 86 x 86mm

### " PM3 " SWITCH

For indoor installation, in flush or surface mounted assembly with a surface mounted box (not supplied).

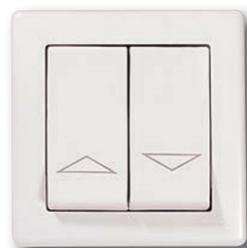
| DESCRIPTION | VERSION  | REFERENCE<br>x10 |
|-------------|----------|------------------|
| <b>PM3</b>  | stable   | <b>2007244</b>   |
| <b>PM3</b>  | unstable | <b>2007246</b>   |

Product delivered complete (front plate + mechanism)

| ACCESSORIES                 | REFERENCE<br>x10 |
|-----------------------------|------------------|
| <b>Surface mounting box</b> | <b>9015196</b>   |

### " ARNOULD PROFIL LUMIERE " SWITCH

For indoor installation, with a surface mounted box (supplied).



Dimensions: 68 x 68mm  
Thickness: 31.7mm

| DESCRIPTION                   | VERSION  | REFERENCE<br>x1 | REFERENCE<br>x10 |
|-------------------------------|----------|-----------------|------------------|
| <b>ARNOULD PROFIL LUMIERE</b> | stable   | <b>2005125</b>  | <b>2005126</b>   |
| <b>ARNOULD PROFIL LUMIERE</b> | unstable | <b>2005127</b>  | <b>2005128</b>   |

Product delivered complete (front plate + mechanism + surface mounting box)



Dimensions: 83 x 83mm

### " ARNOULD ESPACE " SWITCH

For indoor installation, in flush or surface mounted assembly with a surface mounted box (not supplied).

| DESCRIPTION           | VERSION  | REFERENCE      |
|-----------------------|----------|----------------|
| <b>ARNOULD ESPACE</b> | stable   | <b>2007240</b> |
| <b>ARNOULD ESPACE</b> | unstable | <b>2007241</b> |

Product delivered complete (front plate + mechanism)

| ACCESSORIES                 | REFERENCE      |
|-----------------------------|----------------|
| <b>Surface mounting box</b> | <b>9660195</b> |



STABLE VERSION  
Dimensions: 80 x 80mm

### " LEGRAND MOSAÏC " SWITCH

For indoor installation, in flush or surface mounted assembly with a surface mounted box (not supplied).

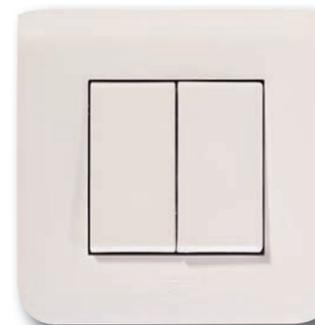
2 mechanisms available:

- screw-mounted for both new and renovation markets
- cramp-mounted for the renovation market only

| DESCRIPTION                                   | VERSION  | REFERENCE      |
|---|----------|----------------|
| <b>Screw-mounted mechanism LEGRAND MOSAÏC</b> | stable   | <b>2006870</b> |
| <b>Cramp-mounted mechanism LEGRAND MOSAÏC</b> | stable   | <b>2006873</b> |
| <b>Screw-mounted mechanism LEGRAND MOSAÏC</b> | unstable | <b>2006871</b> |
| <b>Cramp-mounted mechanism LEGRAND MOSAÏC</b> | unstable | <b>2006874</b> |

Attention Mechanism and front plate sold separately

| ACCESSORIES                 | REFERENCE      |
|-----------------------------|----------------|
| <b>Mosaic front plate</b>   | <b>9014519</b> |
| <b>Surface mounting box</b> | <b>9014520</b> |



UNSTABLE VERSION  
Dimensions: 80 x 80mm

# WIRED CONTROLS

## APEM SWITCH – 230V

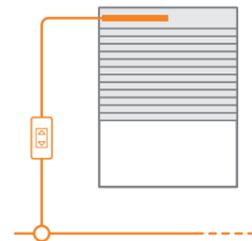
### NOTE

STABLE SWITCH: simply press down once to activate.

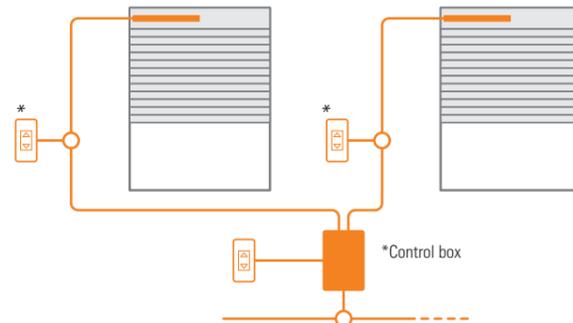
UNSTABLE SWITCH: the switch must be held down throughout the action.

### UNIPOLAR APEM

USE:  
- Individual controls



USE:  
Grouped control, with control box (page 124)



\*When an installation with control box is comprised of individual and a general controls, all these controls must be in unstable mode.



SINGLE UNIPOLAR MECHANISM

| DESCRIPTION   | VERSION  | REFERENCE<br>x1 | REFERENCE<br>x60 |
|---------------|----------|-----------------|------------------|
| UNIPOLAR APEM | stable   | 2001458         | 2001462          |
| UNIPOLAR APEM | unstable | 2001459         | -                |

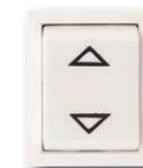
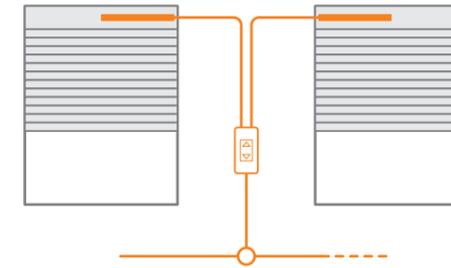


UNIPOLAR APEM INSIDE PM2 BOX  
Dimensions: 43 x 80mm

| DESCRIPTION             | VERSION  | REFERENCE<br>x1 |
|-------------------------|----------|-----------------|
| UNIPOLAR APEM + PM2 BOX | stable   | 2001466         |
| UNIPOLAR APEM + PM2 BOX | unstable | 2001467         |

### BIPOLAR APEM

USE:  
- Control of 2 motors



SINGLE BIPOLAR MECHANISM

| DESCRIPTION  | VERSION  | REFERENCE |
|--------------|----------|-----------|
| BIPOLAR APEM | stable   | 2001460   |
| BIPOLAR APEM | unstable | 2001461   |



BIPOLAR APEM INSIDE PM2 BOX  
Dimensions: 43 x 80mm

| DESCRIPTION            | VERSION | REFERENCE |
|------------------------|---------|-----------|
| BIPOLAR APEM + PM2 BOX | stable  | 2001468   |

### ACCESSORIES - 3 POSSIBLE ASSEMBLIES



PM2 BOX

- SURFACE-MOUNTED ASSEMBLY -  
Single PM2 box

9600973



LEGRAND MOSAÏC

- FLUSH MOUNTED ASSEMBLY -  
Legrand Mosaic front plate with an adaptor interface

9014880

LEGRAND MOSAÏC

- SURFACE MOUNTED ASSEMBLY -  
Legrand Mosaic front plate with an adaptor interface  
+ surface mounting box

9014881



STANDARD FRONT PLATE

- FLUSH MOUNTED ASSEMBLY -  
Standard front plate

9137159

STANDARD FRONT PLATE

- SURFACE MOUNTED ASSEMBLY -  
Standard front plate + surface mounting box

9014879

## WIRED CONTROLS

### PUSH BUTTON – 230V

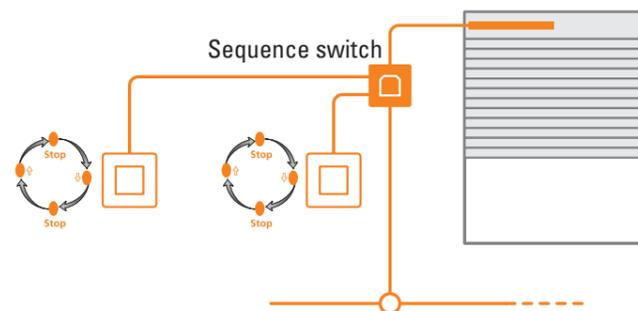
#### NOTE

To make a multipoint control, it is necessary to connect the motor and the push buttons to a sequence switch, see page 119.

#### USE:

##### - MULTIPOINT CONTROL

Control a motor with several control points: in sequential mode, a single key successively successively controls the Up/Stop/Down commands



Dimensions: 83 x 83mm

#### PUSH BUTTON " ARNOULD ESPACE "

For indoor installation, in flush or surface mounted assembly with a surface mounted box (not supplied).

| DESCRIPTION                 | VERSION     | REFERENCE      |
|-----------------------------|-------------|----------------|
| <b>ARNOULD ESPACE</b>       | Push Button | <b>2007242</b> |
| ACCESSOIRES                 |             | REFERENCE      |
| <b>Surface mounting box</b> |             | <b>9660195</b> |



Dimensions: 80 x 80mm

#### PUSH BUTTON " LEGRAND MOSAÏC "

For indoor installation, in flush or surface mounted assembly with a surface mounted box (not supplied).

##### 2 mechanisms available:

- screw-mounted for both new and renovation markets
- cramp-mounted for the renovation market only

| DESCRIPTION                                   | VERSION     | REFERENCE      |
|---|-------------|----------------|
| <b>Screw-mounted mechanism LEGRAND MOSAÏC</b> | Push Button | <b>2006872</b> |
| <b>Cramp-mounted mechanism LEGRAND MOSAÏC</b> | Push Button | <b>2006875</b> |

Attention: Mechanism and front plate sold separately

| ACCESSOIRES                 | REFERENCE      |
|-----------------------------|----------------|
| <b>Mosaic front plate</b>   | <b>9014519</b> |
| <b>Surface mounting box</b> | <b>9014520</b> |



Dimensions: 74 x 74 x 62mm

#### PUSH BUTTON

Waterproof plastic box (protection index IP 65) allowing an outdoor installation.

| DESCRIPTION             | REFERENCE      |
|-------------------------|----------------|
| <b>PUSH BUTTON SIMU</b> | <b>2006756</b> |



Dimensions: 44 x 44 x 23mm

#### SEQUENCE SWITCH FOR MULTIPOINT CONTROL

For motor up to 220W  
Power supply: 230 Vac

| DESCRIPTION            | REFERENCE      |
|------------------------|----------------|
| <b>Sequence switch</b> | <b>2001477</b> |

Delivered without wire

## WIRED CONTROLS

### CEGEO - WIRED BUS



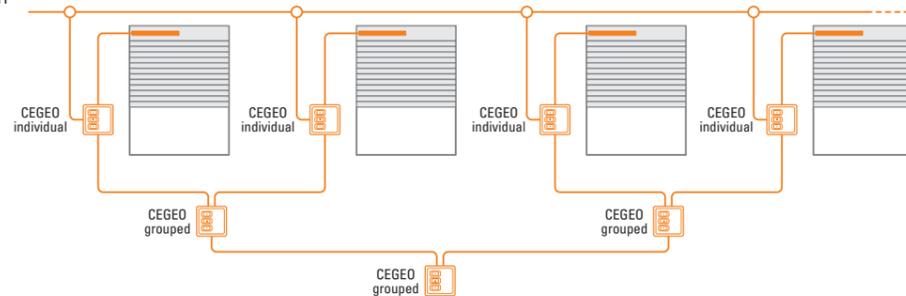
#### CEGEO BUS

Hierarchized control system by wired bus

| DESCRIPTION                 | REFERENCE<br>x1  |
|-----------------------------|------------------|
| <b>CEGEO individual</b>     | <b>2006971</b>   |
| <b>CEGEO grouped</b>        | <b>2006972</b>   |
| ACCESSORIES                 | REFERENCE<br>x10 |
| <b>Surface mounting box</b> | <b>9015196</b>   |

#### USE:

- Individual control
- Control by area
- Centralization



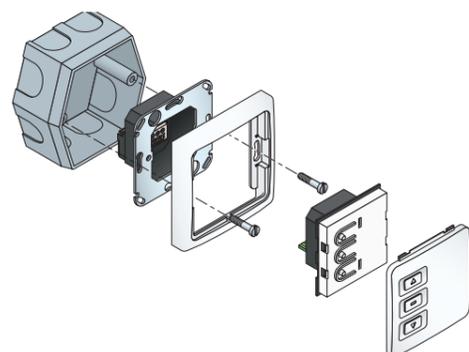
### FUNCTIONS AND PRODUCT BENEFITS

"PILOT WIRE" TECHNOLOGY: a single wire, the neutral to control shutters (up / stop / down / favorite position) and carry out individual, area or centralized commands, for up to 5 ranked levels.

CONTROL UP TO 50 SHUTTERS from the switch CEGEO grouped, with centralized control.

COMFORT: the CEGEO individual switch can memorize 2 favorite positions, which can be accessed by pressing the stop button. One is accessible when the shutter is in the position of the upper limit switch and the other when in position of the lower limit switch.

### SPECIFICATION



|  |                   |
|--|-------------------|
| <b>POWER SUPPLY</b>                      | 230 volts / 50 Hz |
| <b>CLASS</b>                             | II                |
| <b>AMBIENT TEMPERATURE OF USE</b>        | 0°C / +45°C       |
| <b>PROTECTION INDEX</b>                  | IP 40             |
| <b>MAX. CUMULATED LENGTH OF BUS WIRE</b> | 500 meters        |
| <b>DIMENSIONS</b>                        | 83 x 83 x 17mm    |



## WIRED AUTOMATION

### WALL TIMER



#### DAILY OR WEEKLY WIRED TIMER

#### USE:

- Individual control
- Grouped control, with control box (page 124)

| DESCRIPTION                 | REFERENCE      |
|-----------------------------|----------------|
| <b>Daily timer</b>          | <b>2004478</b> |
| <b>Weekly timer</b>         | <b>2005092</b> |
| ACCESSORIES                 | REFERENCE      |
| <b>Surface mounting box</b> | <b>9011187</b> |

### FUNCTIONS AND PRODUCT BENEFITS

SET THE SHUTTER OPENING AND CLOSING TIMES

2 versions available:

Daily timer: programming is the same every day of the week.

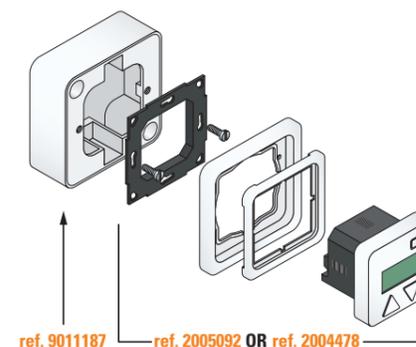
Weekly timer: programming can be different every day.

SECURES THE HOUSE thanks to the presence simulation function. When activated, this function randomly shifts the preset opening and closing times by 1 to 31 minutes.

2 MODES:

automatic mode (programming activated) or manual (programming deactivated).

### SPECIFICATION



ref. 9011187 ref. 2005092 OR ref. 2004478

|                                   |   |
|-----------------------------------|---|
| <b>POWER SUPPLY</b>               | 230 Volts AC / 50 Hz                                    |
| <b>CLASS</b>                      | II  |
| <b>MOTOR OUTPUT</b>               | 250 Volts AC and 3A max.                                |
| <b>AMBIENT TEMPERATURE OF USE</b> | 0°C / +45°C   |
| <b>PROTECTION INDEX</b>           | IP 20 for the Daily Timer<br>IP 40 for the Weekly Timer |
| <b>DIMENSIONS</b>                 | 80 x 80 x 20mm  |

**NOTE**

**STABLE SWITCH:** simply press down once to activate.  
**UNSTABLE SWITCH:** the switch must be held down throughout the action.



Dimensions: 14 x 31mm

**NARROW SWITCH FOR COMBINED WINDOW SHUTTER**

USE:

- Individual control.

It is directly integrated inside the window frame during assembly. Thus only the motor has to be connected during the installation.

| DESCRIPTION          | REFERENCE                    |
|----------------------|------------------------------|
| Stable narrow switch | 2006226 x 1<br>1800066 x 200 |



FRONT PLATE FOR PUSH-BUTTON MODE  
 Dimensions: 85 x 85 x 60mm

**UNIVERSAL KEY BOX**

USE:

- Individual control.
- Grouped control, with control box (page 124).
- Multipoint control by sequence switch: Control a motor with several control points.

| DESCRIPTION             | REFERENCE |
|-------------------------|-----------|
| Boîte à clé universelle | 2004964   |

Delivered with 2 identical keys - type 455 and 1 front plate for sequential mode



FRONT PLATE FOR 3-POSITION MODE



Dimensions: 74 x 74 x 74mm

**KEY SWITCH -3 POSITIONS**

USE:

- Individual control.
- Grouped control, with control box (page 124).

| DESCRIPTION | REFERENCE |
|-------------|-----------|
| Key switch  | 2006752   |

Delivered with 2 identical keys



Dimensions: 74 x 74 x 72mm

**ROTARY SWITCH -3 POSITIONS**

USE:

- Individual control
- Grouped control, with control box (page 124).

| DESCRIPTION | REFERENCE |
|-------------|-----------|
| Stable      | 2006753   |
| Unstable    | 2006754   |
| Mixed       | 2006755   |

- 2 normally open contacts.
- Surface mounted assembly.
- Waterproof plastic box (protection index IP 65) enabling outdoor installation.

## WIRED CONTROLS

### CONTROL BOX – 230V



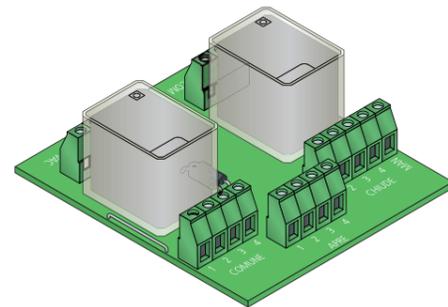
GROUPED CONTROL BOX - 4 MOTORS

| DESCRIPTION                    | REFERENCE |
|--------------------------------|-----------|
| Grouped control box - 4 motors | 2006436   |

WITHOUT DELAY TIME  
Dimensions: 150 x 110 x 75mm

Individual controls with stable switches are possible but the group control is prioritized.  
Possibility to assemble several control boxes in parallel.

### SPECIFICATION



**BOX WITHOUT DELAY TIME**  
**CLASS** II  
**POWER SUPPLY** 230 VAC - 50/60 Hz  
**MAX SWITCHABLE POWER** 4 motors of 280W  
 or 2 motors of 450W  
**PROTECTION INDEX** IP44  
**AMBIANT TEMPERATURE OF STORAGE** - 20°C / + 70°C  
**AMBIANT TEMPERATURE OF USE** - 10°C / + 50°C



## WIRED CONTROLS

### WALL BOXES



| DESCRIPTION         | REFERENCE |
|---------------------|-----------|
| Wallbox for sealing | 9604500   |



| DESCRIPTION                    | REFERENCE |
|--------------------------------|-----------|
| Wallbox for plaster board wall | 9604512   |

# WIRED CONTROLS

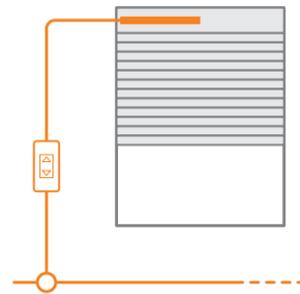
## FOR DIRECT CURRENT MOTORS – 12/24V

### NOTE

**STABLE SWITCH:** simply press down once to activate.  
**UNSTABLE SWITCH:** the switch must be held down throughout the action.

### USE:

- Individual control



UNIPOLAR MECHANISM

### SWITCH WITHOUT TRANSFORMER

| DESCRIPTION             | VERSION  | REFERENCE |
|-------------------------|----------|-----------|
| UNIPOLAR APEM MECHANISM | stable   | 2001500   |
| UNIPOLAR APEM MECHANISM | unstable | 2001501   |

### ACCESSORIES - 3 POSSIBLE ASSEMBLIES



SURFACE-MOUNTED ASSEMBLY  
INSIDE THE PM2 BOX  
Dimensions: 43 x 80mm



FLUSH MOUNTED ASSEMBLY OR  
SURFACE MOUNTED ASSEMBLY WITH  
THE CLASSICAL FRONT PLATE  
Dimensions: 80 x 80mm



FLUSH MOUNTED ASSEMBLY OR  
SURFACE MOUNTED ASSEMBLY WITH  
THE LEGRAND MOSAIC FRONT PLATE  
+ AN ADAPTOR INTERFACE  
Dimensions: 80 x 80mm

| MOUNTING   | COMPONENT   | DESCRIPTION   | REFERENCE |
|--|---|---|-----------|
| <br>PM2 BOX               |    | PM2 BOX   |           |
| <br>LEGRAND MOSAIC        |    | Legrand Mosaic front plate<br>with an adaptor interface                           | 9014880   |
|  |    | Legrand Mosaic front plate<br>with an adaptor interface<br>+ surface mounting box | 9014881   |
| <br>STANDARD FRONT PLATE |   | Standard front plate  | 9137159   |
|  |  | Standard front plate<br>+ surface mounting box                                    | 9014879   |

# RSA Hz RADIO RECEIVER

## FOR ROLLING GARAGE DOORS



**USE:**

- Radio receiver for single-phase motors with mechanical end-limits (DMI5, DMI6, T5, T6)
- Management of safety and lighting accessories.

| DESCRIPTION           | REFERENCE |
|-----------------------|-----------|
| RSA Hz radio receiver | 2006048   |

### FUNCTIONS AND PRODUCT BENEFITS

COMPLETE RADIO SOLUTION FOR ROLLING GARAGE DOOR: control of a wired motor; connection/ management of a safety brake, and/or an orange light, and of 3 safety accessories (up to 2 photocells sets and 1 safety edge).

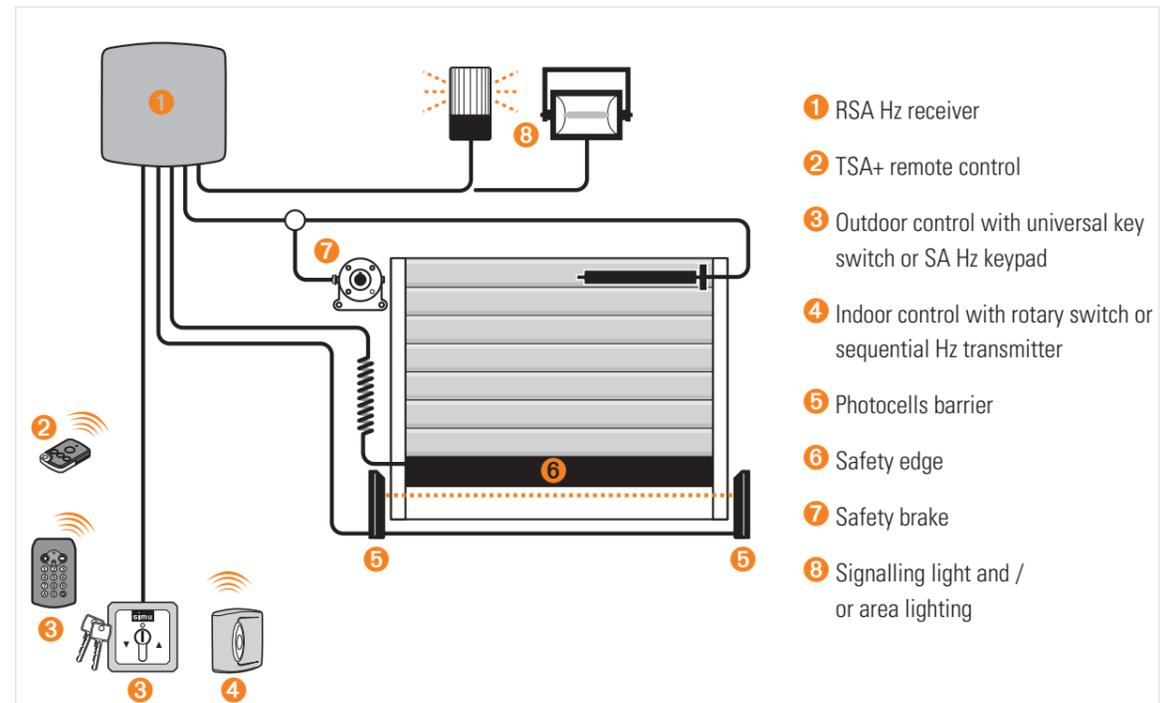
**CUSTOMIZED PROGRAMMING AND OPERATING MODE:**

- 6 modes: automatic, semi-automatic, sequential, sequential with delay time, with 3 buttons (up, down and stop) and forced with keyboard
- Adjustable time of the area lighting
- Accurate adjustment of motor operating time and closure time delays.
- Integrated cycle meter

SOLUTION COMPATIBLE with the entire range of SIMU-Hz transmitters.

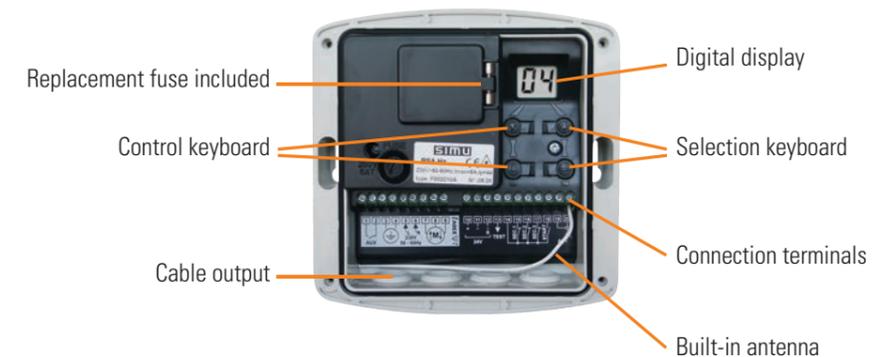
SELF TESTING and diagnostic of the safety accessories at each operating cycle.

### INSTALLATION



- 1 RSA Hz receiver
- 2 TSA+ remote control
- 3 Outdoor control with universal key switch or SA Hz keypad
- 4 Indoor control with rotary switch or sequential Hz transmitter
- 5 Photocells barrier
- 6 Safety edge
- 7 Safety brake
- 8 Signalling light and / or area lighting

### SPECIFICATION



|                                  |  |
|----------------------------------|--|
| <b>POWER SUPPLY</b>              | 230 VAC - 50 Hz  |
| <b>FUSE</b>                      | 250 VAC / 5 A with timeout   |
| <b>MAXIMUM MOTOR POWER</b>       | 230 VAC - 750 W  |
| <b>ACCESSORY POWER SUPPLY</b>    | 24 VDC   |
| <b>ORANGE LIGHT</b>              | 24 V / 10 W max or 230 V / 40 W max  |
| <b>AREA LIGHTING</b>             | 230 VAC / 500 W  |
| <b>MAXIMUM ACCESSORY CURRENT</b> | 0.33 A, i.e. 8 W max.  |
| <b>AUXILIARY OUTPUT</b>          | no contact, 250 VAC / 500 W  |
| <b>SAFETY EDGE COMPATIBILITY</b> | optical or resistive (from 5 to 14 Ω)  |
| <b>RADIO FREQUENCY SIMU-Hz</b>   | 433.42 MHz   |
| <b>SECURE COMMUNICATION</b>      | Encrypted control orders<br>+ Rolling code with 16 million possible combinations |
| <b>NUMBER OF CHANNELS</b>        | Possibility to memorize 32 channels  |
| <b>PROTECTION INDEX</b>          | IP55   |
| <b>DIMENSIONS</b>                | 150 x 150 x 40mm   |
| <b>WEIGHT</b>                    | 680 g  |



## CONTROL IN SEQUENTIAL MODE

... A SINGLE KEY CONTROLS THE UP/STOP/DOWN COMMANDS

When the RSA Hz is set to automatic, semi-automatic, sequential or sequential with button mode:

|  |  |  |   |  |
|--|--|--|---|--|
| <b>INDOOR RADIO CONTROL</b><br><br>Sequential Hz transmitter<br>Ref. 2001403  |  | <b>OUTDOOR RADIO CONTROLS</b><br>  <br>TSA+ remote control<br>Ref. 2007846 <b>page 132</b> TS2 remote control<br>Ref. 2005326 <b>page 133</b> SA Hz keypad<br>Ref. 2006029 <b>page 134</b> |   |  |
| <b>INDOOR WIRED CONTROLS</b><br>  <br>Push button<br>ARNOULD ESPACE<br>Ref. 2007242 <b>page 118</b> Push button<br>LEGRAND MOSAÏC<br>Ref. 2006872 <b>page 119</b> WATERPROOF<br>PUSH BUTTON<br>Ref. 2006756 <b>page 119</b> |  |  | <b>OUTDOOR WIRED CONTROLS</b><br><br>UNIVERSAL KEY SWITCH<br>(configured in sequential mode)<br>Ref. 2004964 <b>page 122</b> |  |

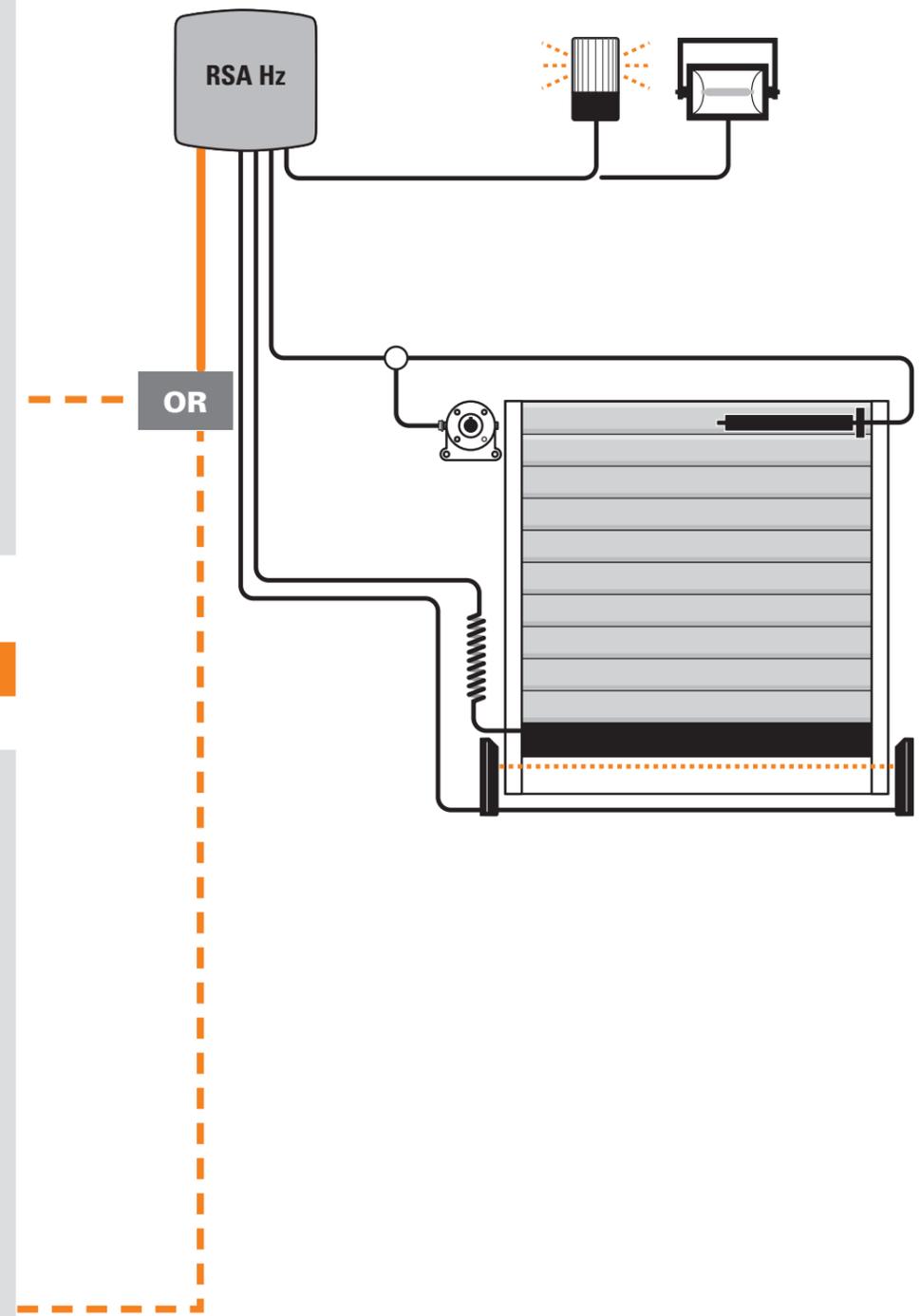
OR

## CONTROL IN 3-BUTTONS MODE

... 1 UP BUTTON, 1 DOWN BUTTON AND 1 STOP BUTTON

When the RSA Hz is set to 3-buttons mode:

|   |  |  |  |
|---|--|--|--|
| <b>INDOOR RADIO CONTROL</b><br> <br>COLOR+ transmitter<br>1 channel<br>Ref. 9017805 <b>page 98</b> COLOR+ remote control<br>1 channel<br>Ref. 9018202 <b>page 100</b> |  | <b>OUTDOOR RADIO CONTROLS</b><br>  <br>TSA+ remote control<br>Ref. 2007846 <b>page 132</b> UNIVERSAL KEY SWITCH<br>(configured in 3-buttons mode)<br>Ref. 2004964 <b>page 122</b> DRY CONTACT<br>Hz transmitter<br>Ref. 2006020 <b>page 103</b> |  |
| <b>INDOOR WIRED CONTROLS</b><br><br>ROTARY SWITCH<br>3 positions<br>Ref. 2006753 <b>page 123</b>   | <b>OUTDOOR WIRED CONTROLS</b><br> <br>UNIVERSAL KEY SWITCH<br>(configured in 3-buttons mode)<br>Ref. 2004964 <b>page 122</b> KEY SWITCH<br>3 positions<br>Ref. 2006752 <b>page 123</b> |  |  |



## RADIO CONTROLS

### TSA+ REMOTE CONTROL



METAL RING WITH CHROME FINISHING

#### 4 CHANNEL REMOTE CONTROL

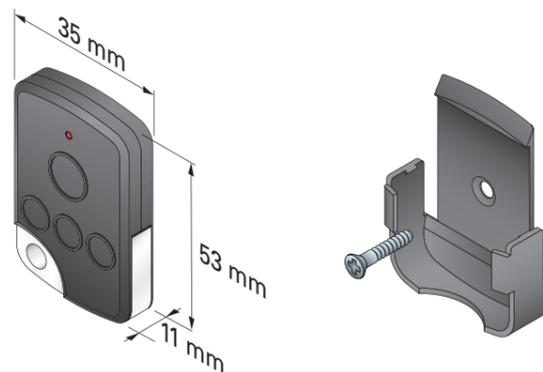
USE:

- Control in sequential mode, up to 4 RSA Hz or SA Hz standard receivers

| DESCRIPTION         | REFERENCE                   |
|---------------------|-----------------------------|
| TSA+ remote control | 2007846 x 1<br>2008038 x 16 |

Delivered with a holder, which can clipped onto the sunshade of the car or fixed to the wall.

### SPECIFICATION



**POWER SUPPLY** 3V lithium battery - type CR2430  
**PROTECTION INDEX** IP 30  
**RADIO FREQUENCY** 433.42 MHz  
**PRODUCT CLASS** III  
**AMBIENT TEMPERATURE OF USE** - 20°C to + 70°C  
**SECURE COMMUNICATION** Encrypted control orders  
 + Rolling code with 16 million possible combinations  
**RANGE** 30 meters  
**WEIGHT** 38 g  
**DIMENSIONS** 53 x 35 x 11mm



## RADIO CONTROLS

### TSA 2 REMOTE CONTROL



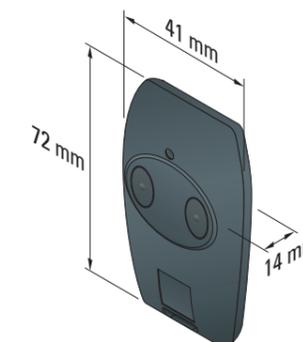
#### 2 CHANNEL REMOTE CONTROL

USE:

- Control in sequential mode, up to 2 RSA Hz or SA Hz standard receivers

| DESCRIPTION          | REFERENCE |
|----------------------|-----------|
| TSA 2 remote control | 2005326   |

### SPECIFICATION



**POWER SUPPLY** 3V lithium battery - type CR2032  
**PROTECTION INDEX** IP 30  
**RADIO FREQUENCY** 433.42 MHz  
**PRODUCT CLASS** III  
**AMBIENT TEMPERATURE OF USE** - 20°C to + 60°C  
**SECURE COMMUNICATION** Encrypted control orders  
 + Rolling code with 16 million possible combinations  
**RANGE** 30 meters  
**WEIGHT** 25 g  
**DIMENSIONS** 72 x 41 x 14mm



## RADIO CONTROLS

### SA Hz RADIO KEYPAD

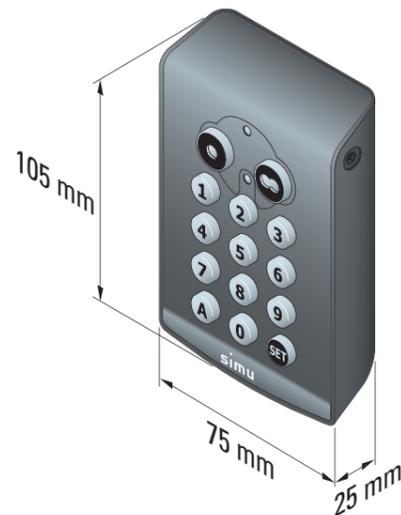


**USE:**

- Secure control with user's code, up to 2 RSA Hz or SA Hz standard receivers

| DESCRIPTION        | REFERENCE |
|--------------------|-----------|
| SA Hz radio keypad | 2006029   |

### SPECIFICATION



|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 3V lithium battery - type CR2450   |
| <b>USER'S CODE</b>                | 4, 5 or 6 numbers  |
| <b>PROTECTION INDEX</b>           | IP 54  |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>AMBIENT TEMPERATURE OF USE</b> | - 20°C to + 60°C   |
| <b>SECURE COMMUNICATION</b>       | Encrypted control orders<br>+ Rolling code with 16 million possible combinations |
| <b>RANGE</b>                      | 30 meters  |
| <b>NUMBER OF CHANNELS</b>         | 2  |



## OTHER RECEIVER

### SA Hz STANDARD RECEIVER

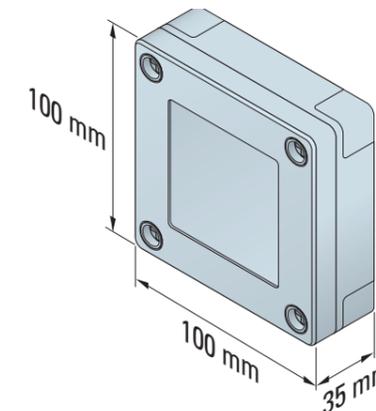


**USE:**

- This receiver allows you to make compatible one or two wired or radio automations (automation for a gate, for example) with the SIMU-Hz radio control and to control them with the remote TSA+, TSA2, the SA Hz keypad and all transmitters from the SIMU-Hz range.

| DESCRIPTION             | REFERENCE |
|-------------------------|-----------|
| SA Hz standard receiver | 2006380   |

### SPECIFICATION



|                                   |  |
|-----------------------------------|--|
| <b>POWER SUPPLY</b>               | 24 VDC / 3 A and 24 VAC / 3 A  |
| <b>PROTECTION INDEX</b>           | IP 66  |
| <b>RADIO FREQUENCY</b>            | 433.42 MHz   |
| <b>AMBIENT TEMPERATURE OF USE</b> | - 20°C to + 70°C   |
| <b>SECURE COMMUNICATION</b>       | Encrypted control orders<br>+ Rolling code with 16 million possible combinations |
| <b>WIRING</b>                     | 2x0.75mm <sup>2</sup> wires, H05 RRF   |
| <b>NUMBER OF RELAYS</b>           | 2  |
| <b>NUMBER OF CHANNELS</b>         | Possibility to memorize 16 channels per relay, i.e. 32 channels                  |



# SAFETY ACCESSORIES

## SAFETY BRAKE

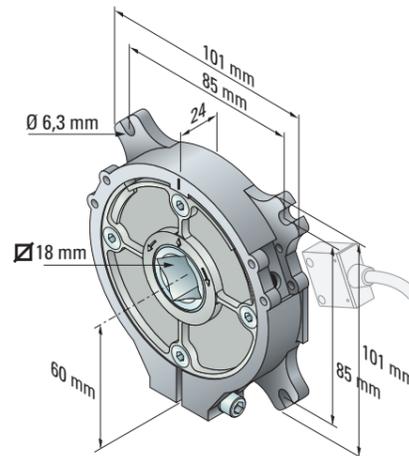


**USE:**

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.

| DESCRIPTION                          | REFERENCE |
|--------------------------------------|-----------|
| Safety brake 95 Nm, ■ 18, cable 1 m  | 2007927   |
| Safety brake 95 Nm, ■ 18, cable 5 m  | 2007928   |
| Safety brake 147 Nm, ■ 18, cable 1 m | 2007929   |
| Safety brake 147 Nm, □ 18, cable 5 m | 2007930   |

### SPECIFICATION



**ADMISSIBLE TORQUE** Safety brake 95 = 95  
 Safety brake 147 = 147

**INTERCEPTING MOMENT** Safety brake 95 = 197  
 Safety brake 147 = 573

**WORKING SPEED** Safety brake 95 = 22  
 Safety brake 147 = 22

**CABLE LENGTH** 1 meter

**WEIGHT** 1 kg

### SELECTION CHART

| TYPE OF TUBE          | SAFETY BRAKE      |                   |
|-----------------------|-------------------|-------------------|
|                       | 95 Nm             | 145 Nm            |
| OCTA 70               | 86 Kg* - 217 Kg** | 91 Kg* - 336 Kg** |
| LP 89 (DEPRAT)        | 77 Kg* - 171 Kg** | 80 Kg* - 264 Kg** |
| 101,6 x 3,6 / 102 x 2 | 121 Kg            | 175 Kg            |
| 133 x 4 / 133 x 2,5   | 96 Kg             | 160 Kg            |

\* Maximum value according to the resistance of the tube  
 \*\* Maximum value accepted by the safety brake

# SAFETY ACCESSORIES

## OPTICAL SAFETY EDGE



**USE:**

- If an obstacle is preventing closure, the integrated photocells set detects the flattening of the rubber profile.
- A safety edge is composed of a rubber profile, a rail and a connection kit with photocells.

### SPECIFICATION

**SAFETY** Cat. 2 according to DIN EN 954-1

**PROTECTION INDEX** Housing IP 65

**AMBIENT TEMPERATURE OF USE** - 20°C to + 55°C

**MAX.DOOR LENGTH** 10 meters

#### COMPONENTS FOR HEIGHT OF SLAT MAX. 75 MM

| RAIL                            | RUBBER PROFILE   | CONNECTION KIT |
|---------------------------------|--|----------------|
|                                 |  |                |
| 9016875<br>10 rails of 3 meters | 9015894<br>50 m coil strip<br><small>This profile can be directly integrated in certain final slats: Heroal, Alulux, Alukon, Lakal and Building Plastics</small> | 9015893        |

#### COMPONENTS FOR HEIGHT OF SLAT MAX. 75 TO 110 MM

| RAIL                              | RUBBER PROFILE   | CONNECTION KIT |
|-----------------------------------|--|----------------|
|                                   |  |                |
| 9013406<br>10 rails of 2.5 meters | 9016704<br>9016703<br>40 m coil strip<br><small>This profile can be directly integrated in certain final slats: Heroal, Alulux and Lakal</small> | 9015946        |

## SAFETY ACCESSORIES

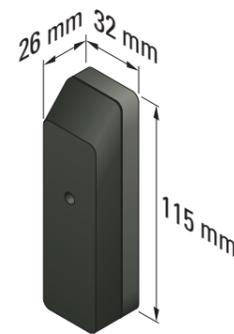
### PHOTOCELLS BARRIER



USE:  
It detects obstacles preventing opening or closing.

| DESCRIPTION        | REFERENCE |
|--------------------|-----------|
| Photocells barrier | 9012888   |

### SPECIFICATION



|                                   |   |
|-----------------------------------|---|
| <b>POWER SUPPLY</b>               | from 20 VAC to 31 VAC or 22 VDC to 30 VDC |
| <b>RANGE</b>                      | max 30m (reduced in case of fog or rain)  |
| <b>PROTECTION INDEX</b>           | IP 54                                     |
| <b>AMBIENT TEMPERATURE OF USE</b> | - 15°C to + 70°C                          |
| <b>DIMENSIONS</b>                 | 115 x 32 x 26mm                           |

## SAFETY ACCESSORIES

### SIGNALLING LIGHT

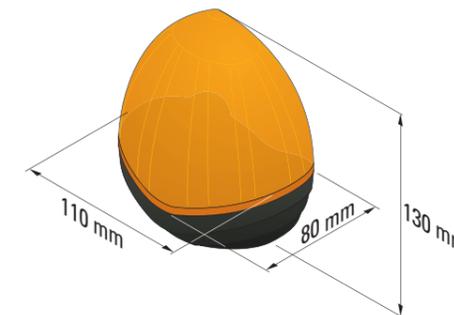


USE:  
It signals that the door is opening or closing.

| DESCRIPTION                | BUILT-IN ANTENNA | REFERENCE |
|----------------------------|------------------|-----------|
| 230V Fixed orange light    | yes              | 9630320   |
| 24 V Fixed orange light    | yes              | 9015170   |
| 230V Flashing orange light | no               | 9012948   |

*Screws and wall plugs included*

### SPECIFICATION



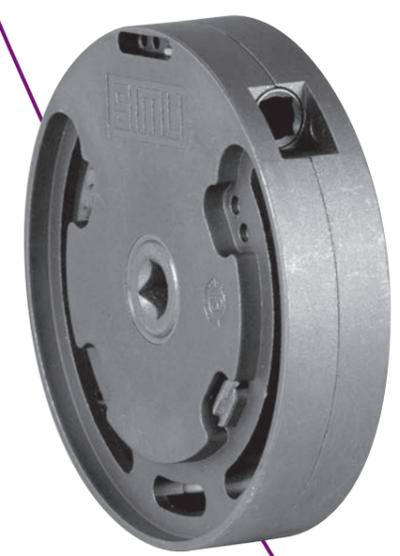
|                              |   |
|------------------------------|---|
| <b>FIXED ORANGE LIGHT</b>    | 230 VAC for control box equipped with a flashing output<br>25 W |
| <b>FIXED ORANGE LIGHT</b>    | 24 VDC for control box equipped with a flashing output<br>10 W  |
| <b>FLASHING ORANGE LIGHT</b> | 230 VAC<br>25 W   |
| <b>DIMENSIONS</b>            | 110 x 130 x 80mm  |

GEARS p 142

PULLEYS p 154

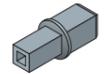
BALANCING SPRINGS p 158

# MANUAL MECHANISMS

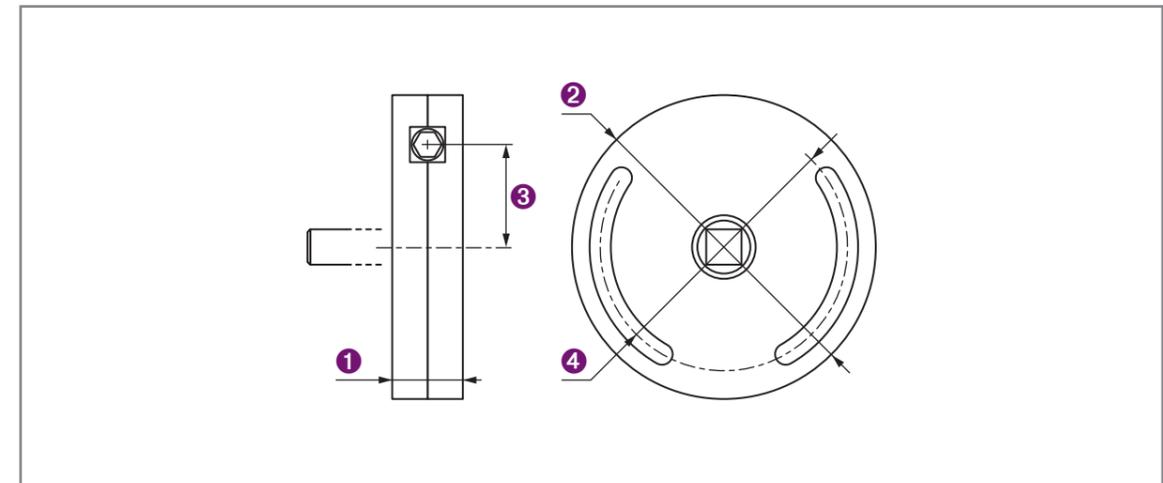


MANUAL  
MECHANISMS

## RANGE

| GEAR  | RATIO | TORQUE  | INPUT    | OUTPUT         | END-LIMIT | REFERENCE |
|---|-------|---------|----------|----------------|-----------|-----------|
| <br>Gear 1420B   | 1/5   | 10.6 Nm | Hexa 7   | Square 10      | yes       | 2002030   |
|   | 1/7   | 14.2 Nm | Hexa 7   | Square 10      | yes       | 2002041   |
| <br>Gear 1420  | 1/5   | 10.6 Nm | Hexa 7   | Square 10      | yes       | 2002018   |
|   | 1/7   | 14.2 Nm | Hexa 7   | Square 10      | yes       | 2002035   |
| <br>Gear 1424  | 1/5   | 12 Nm   | Hexa 7   | Square 16      | no        | 2002143   |
|   | 1/8   | 13.2 Nm | Hexa 7   | Square 16      | no        | 2002145   |
|   | 1/11  | 20.8 Nm | Hexa 7   | Square 16      | no        | 2002147   |
|   | 1/8   | 13.2 Nm | Square 8 | Square 10      | yes       | 2002112   |
|   | 1/8   | 13.2 Nm | Hexa 7   | Square 10      | yes       | 2002140   |
|   | 1/11  | 20.8 Nm | Square 8 | Square 10      | yes       | 2002117   |
| <br>Core : Male square 16 / hole 12 - gear side<br>Male square 13 / Female square 7 - driving side<br><i>The gear and the core are separately sold</i> |       |         |          |                |           | 2002392   |
| <br>Gear ACE Zamac<br><br><br>Gear ACE Resin                        | 1/5   | 8 Nm    | Hexa 7   | Male square 13 | yes       | 2001676   |
|   | 1/5   | 8 Nm    | Square 8 | Male square 13 | yes       | 2001677   |
|   | 1/8   | 12 Nm   | Hexa 7   | Male square 13 | yes       | 2001678   |
|   | 1/8   | 12 Nm   | Square 8 | Male square 13 | yes       | 2001679   |
|   | 1/5   | 8 Nm    | Hexa 7   | Square 10      | yes       | 2001682   |
|   | 1/5   | 8 Nm    | Square 8 | Square 10      | yes       | 2001683   |
|   | 1/8   | 12 Nm   | Hexa 7   | Square 10      | yes       | 2001685   |
|   | 1/8   | 12 Nm   | Square 8 | Square 10      | yes       | 2001686   |

## SPECIFICATION

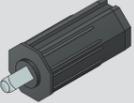


| SPECIFICATION                             | 1420 - 1420B | 1424       | ACE (RATIO 1/5)                            | ACE (RATIO 1/8)                            |
|---|--------------|------------|--|--|
| <b>GEAR THICKNESS</b> ①                   | 20 mm        | 24 mm      | 22 mm                                      | 22 mm                                      |
| <b>GEAR DIAMETER</b> ②                    | 86 mm        | 120 mm     | 82 mm                                      | 90 mm                                      |
| <b>AXLE DISTANCE</b> ③<br>output /input   | 29 mm        | 33 mm      | 25 mm                                      | 27 mm                                      |
| <b>INTER-AXLE OF THE FIXATION SCREW</b> ④ | 70 mm        | 90 mm      | 66 mm                                      | 66 mm                                      |
| <b>FIXATION SREW Ø</b>                    | 5 mm         | 6 mm       | 6 mm                                       | 6 mm                                       |
| <b>CASING BOX MATERIAL</b>                | Zamac        | Resin      | Resin or Zamac<br>(Depending on the model) | Resin or Zamac<br>(Depending on the model) |
| <b>DRIVE HUB MATERIAL</b>                 | Steel        | Steel      | Resin or Zamac                             | Steel                                      |
| <b>SCREW MATERIAL</b>                     | Steel        | Steel      | Steel                                      | Steel                                      |
| <b>BRAKE</b>                              | yes          | Adjustable | yes  | yes  |
| <b>END-LIMIT CAPACITY</b>                 | 17 rounds    | 16 rounds  | 15 rounds                                  | 15 rounds                                  |

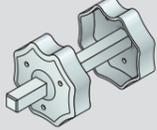
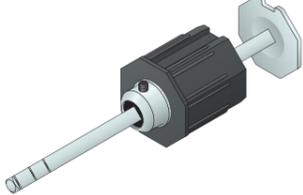
# END CAPS

## FOR GEAR SIDE

### OCTA 40 MM ROLLING TUBE

| END CAP   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|    | End cap length 87mm with clips, with female 10mm square   | 2003532   |
|    | Aluminium end cap length 50mm with female 13mm square   | 2003466   |
|   | End cap length 78mm with female 13mm square   | 2003524   |
|  | End cap length 80mm, with clips + screws, with female 10mm square, for operating pivot ref. 2002648 | 2003106   |
|  | Telescopic end cap, length 250mm, with 10mm square pivot  | 2003388   |
|  | End cap, length 82mm, with 10mm square pivot  | 2003526   |
|  | End cap length 89mm, with female 10mm square  | 2003345   |

### OCTA 60 MM ROLLING TUBE

| END CAP   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|    | End cap length 98mm with clips, with female 10mm square   | 2003530   |
|    | Aluminium end cap length 51mm, with female 13mm square  | 2003467   |
|    | End cap length 57mm, with female 13mm square  | 2003534   |
|   | Bobbin with 10mm square   | 2002338   |
|  | Telescopic end cap, length 250mm, with 10mm square pivot  | 2003394   |
|  | End cap length 96mm, with clips + screws, with female 10mm square, for operating pivot ref. 2002648 | 2003104   |
|  | End cap, length 82mm, with 10mm square pivot  | 2003537   |

### OCTA 70 MM ROLLING TUBE

| END CAP   | DESCRIPTION  | REFERENCE |
|---|--|-----------|
|  | Aluminium end cap length 51mm, with female 13mm square | 2003468   |

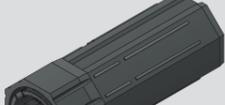
# ENDS CAPS FOR OPPOSITE SIDE

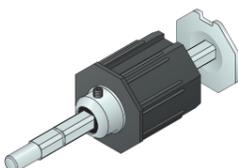
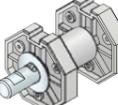
## FOR OCTA 40, 60 AND 70 ROLLING TUBES

### OCTA 40MM ROLLING TUBE

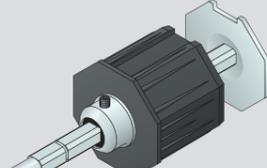
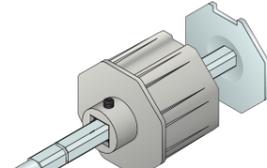
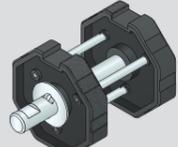
| END CAP   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|  | End cap length 78mm for Ø28mm bearing   | 2003527   |
|  | End cap length 85mm with clips with 10mm female square for 18mm bearing with bore | 2003105   |

### OCTA 60MM ROLLING TUBE

| END CAP   | DESCRIPTION                                      | REFERENCE |
|---|--|-----------|
|  | End cap length 54mm for Ø42mm bearing            | 2003504   |
|  | End cap length 98mm with clips for Ø28mm bearing | 2003528   |
|  | End cap length 150mm for Ø28mm bearing           | 2003539   |
|  | End cap length 150mm for Ø42mm bearing           | 2003540   |

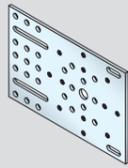
|   |   |         |
|---|---|---------|
|  | Plastic telescopic end cap length 200mm with 12mm pivot                           | 2003389 |
|  | End cap length 57mm with 12mm pivot   | 2003535 |
|  | Bobbin for SIMU bracket ref. 2003617  | 2003565 |
|  | End cap length 96mm with clips with 10mm female square for 18mm bearing with bore | 2003103 |

### OCTA 70MM ROLLING TUBE

| END CAP   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|  | End cap length 54mm for Ø42mm bearing                     | 2003505   |
|  | Plastic telescopic end cap length 200mm with 12mm pivot   | 2003390   |
|  | Aluminium telescopic end cap length 200mm with 12mm pivot | 2003471   |
|  | Bobbin for SIMU bracket ref. 2003617                      | 2003564   |

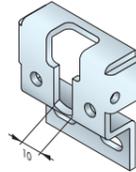
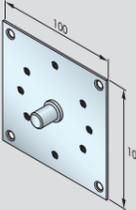
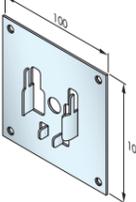
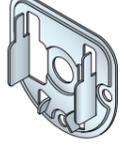
# BRACKETS

## GEAR SIDE

| BRACKET   | DESCRIPTION  | REFERENCE |
|---|--|-----------|
|    | Plate for gear in wall integrated system                           | 2003610   |
|    | Plate, 155mm length, for gear in wall integrated system            | 2003611   |
|   | 90° fixing bracket for ACE gear in side frame in renovation system | 2003003   |
|  | 100 x 100 plate with 12mm pivot for ACE gear in renovation system  | 2002647   |

# BRACKETS

## OPPOSITE SIDE

| BRACKET   | DESCRIPTION  | REFERENCE |
|---|--|-----------|
|    | Bracket for SIMU mechanism Delivered with pin                    | 2003617   |
|    | Plate 100 x 100mm with 12mm spring                               | 2002645   |
|   | Plate 100 x 100mm for Ø42mm bearing ref. 2003447 or ref. 2003448 | 2002644   |
|  | Bracket for Ø42mm bearing ref. 2003447 or ref. 2003448           | 2003442   |
|  | Bracket for Ø42mm bearing ref. 2003447 or ref. 2003448           | 2003443   |
|  | Bracket for Ø28mm bearing ref. 2003455 or ref. 2003454           | 2003446   |
|  | Ø28mm nylon bearing 12mm bore                                    | 2003455   |

| BRACKET  | DESCRIPTION                      | REFERENCE |
|--|----------------------------------|-----------|
|   | Ø28mm steel bearing<br>12mm bore | 2003454   |
|   | Ø36mm steel bearing<br>18mm bore | 2002677   |
|   | Ø42mm steel bearing<br>12mm bore | 2003447   |
|  | Ø42mm nylon bearing<br>12mm bore | 2003448   |

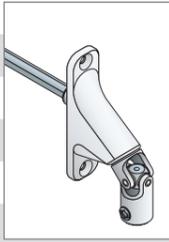
## CONTROLS FOR GEARS

### UNIVERSAL JOINT

| PRODUCT   | DESCRIPTION                        | COLOUR              | REFERENCE |
|---|------------------------------------|---------------------|-----------|
|  | 60° universal joint for Ø 12mm rod | White, hexa 7 rod   | 2008071   |
|   | 60° universal joint for Ø 12mm rod | White, square 6 rod | 2008072   |
|   | 60° universal joint for Ø 12mm rod | White, square 8 rod | 2008073   |
|   | 60° universal joint for Ø 12mm rod | Grey, hexa 7 rod    | 2008074   |
|   | 60° universal joint for Ø 12mm rod | Grey, square 6 rod  | 2008075   |
|   | 60° universal joint for Ø 12mm rod | Grey, square 8 rod  | 2008076   |

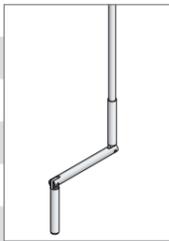
**PLATE** 22 x 62 mm  
**FIXATION** 4 holes Ø 4,5 mm  
**INTER-AXLE** 13 x 53 mm  
**LENGTH** 315 mm rod  
**DELIVERED** with 4 screws 3,9 x 19 and 1 screw M5

### UNIVERSAL JOINT

| PRODUCT  | DESCRIPTION                        | COLOUR              | REFERENCE |
|--|------------------------------------|---------------------|-----------|
|  | 90° universal joint for Ø 12mm rod | White, hexa 7 rod   | 2008066   |
|  | 90° universal joint for Ø 12mm rod | White, square 6 rod | 2008070   |
|  | 90° universal joint for Ø 12mm rod | White, square 8 rod | 2008068   |
|  | 90° universal joint for Ø 12mm rod | Grey, hexa 7 rod    | 2008065   |
|  | 90° universal joint for Ø 12mm rod | Grey, square 6 rod  | 2008069   |
|  | 90° universal joint for Ø 12mm rod | Grey, square 8 rod  | 2008067   |

**PLATE** 22,5 x 86 mm  
**FIXATION** 2 holes Ø 4 mm  
**INTER-AXLE** 73 mm  
**LENGTH** 355 mm rod  
**DELIVERED** with 1 screw M5

### CRANK ROD

| PRODUCT   | DESCRIPTION          | COLOUR               | REFERENCE |         |
|---|----------------------|----------------------|-----------|---------|
|   |                      |                      | x 1       | x 10    |
|  | Crank handle and rod | White, 1800mm length | 2008124   | 2008125 |
|   | Crank handle and rod | White, 1400mm length | 2008126   | 2008127 |
|   | Crank handle and rod | White, 1100mm length | 2008128   | 2008129 |
|   | Crank handle and rod | Grey, 1800mm length  | 2008118   | 2008119 |
|   | Crank handle and rod | Grey, 1400mm length  | 2008120   | 2008121 |
|   | Crank handle and rod | Grey, 1100mm length  | 2008122   | 2008123 |

**ROD** Ø 12 steel rod, 1mm thickness  
inside and outside phosphatized  
exterior color with coated polyester  
**CRANK HANDLE** Lacquered aluminium crank, 180mm length  
Stainless steel joint axles, 320mm unfolded length

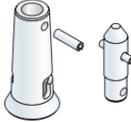
### IMPORTANT

The length of the crank rod corresponds to the length of the single rod without the crank.

## CRANK

| PRODUCT   | DESCRIPTION  | COLOUR | REFERENCE      |
|---|--------------|--------|----------------|
|  | Single crank | Grey   | <b>2008077</b> |
|   | Single crank | White  | <b>2008078</b> |

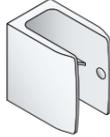
## COUPLING TUNNEL FOR CRANK ROD

| PRODUCT   | DESCRIPTION   | COLOUR        | REFERENCE      |
|---|---|---------------|----------------|
|  | Zamak coupling tunnel + neckel-plated sleeve for Ø 12mm rod | neckel-plated | <b>2008079</b> |

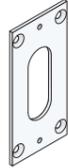
## CARDAN JOINT

| PRODUCT  | DESCRIPTION                | COLOUR | REFERENCE      |
|--|----------------------------|--------|----------------|
|  | Ø 10mm / 12mm cardan joint | White  | <b>2008080</b> |
|  | Ø 10mm / 12mm cardan joint | Grey   | <b>2008179</b> |

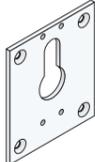
## CRANK CLIP

| PRODUCT   | DESCRIPTION          | COLOUR | REFERENCE      |
|---|----------------------|--------|----------------|
|  | 20 x 34mm crank clip | White  | <b>2008081</b> |
|   | 20 x 34mm crank clip | Grey   | <b>2008082</b> |

## COVERING PLATE

| PRODUCT   | DESCRIPTION                             | COLOUR | REFERENCE      |
|---|---|--------|----------------|
|  | 40 x 85mm plate for 90° universal joint | White  | <b>9017284</b> |
|   | 40 x 85mm plate for 90° universal joint | Grey   | <b>9017285</b> |

## COVERING PLATE

| PRODUCT   | DESCRIPTION  | COLOUR | REFERENCE      |
|---|--|--------|----------------|
|  | 60 x 70mm plate for 60° universal joint with M4x8 screws | White  | <b>9017287</b> |
|   | 60 x 70mm plate for 60° universal joint with M4x8 screws | Grey   | <b>9017286</b> |

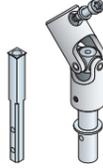
## HOOK

| PRODUCT   | DESCRIPTION  | COLOUR | REFERENCE      |
|---|--|--------|----------------|
|  | Hook for Ø 12mm crank rod.<br>To be assembled with a sleeve. Ref. 2008132 or 2008133 | -      | <b>2004482</b> |

## SLEEVE

| PRODUCT   | DESCRIPTION                                   | COLOUR | REFERENCE      |
|---|---|--------|----------------|
|  | Sleeve to link a hook with a Ø 12mm crank rod | White  | <b>2008132</b> |
|   | Sleeve to link a hook with a Ø 12mm crank rod | Grey   | <b>2008133</b> |

## CARDAN JOINT SET

| PRODUCT  | DESCRIPTION                                    | COLOUR | INPUT                 | REFERENCE      |
|--|--|--------|-----------------------|----------------|
|  | Cardan joint set for direct assembly onto gear | White  | 6mm square gear input | <b>2008130</b> |
|  | Cardan joint set for direct assembly onto gear | White  | 7mm hexa gear input   | <b>2008131</b> |
|  | Cardan joint set for direct assembly onto gear | Grey   | 6mm square gear input | <b>2008180</b> |
|  | Cardan joint set for direct assembly onto gear | Grey   | 7mm hexa gear input   | <b>2008181</b> |

## RING SET

| PRODUCT   | DESCRIPTION                            | INPUT                 | REFERENCE      |
|---|--|-----------------------|----------------|
|  | Ring set for direct assembly onto gear | 6mm square gear input | <b>2004486</b> |
|   | Ring set for direct assembly onto gear | 7mm hexa gear input   | <b>2004487</b> |

## RENOVATION SYSTEM

### PULLEY

| PRODUCT   | DIAMETER | DESCRIPTION                                       | REFERENCE               |
|---|----------|---|-------------------------|
|  | 115mm    | Ø 115mm pulley, for octa 40-60 end cap with clips | <a href="#">2001972</a> |
|   | 125mm    | Ø 125mm pulley, for octa 40-60 end cap with clips | <a href="#">2001973</a> |
|   | 140mm    | Ø 140mm pulley, for octa 40-60 end cap with clips | <a href="#">2001974</a> |
|   | 155mm    | Ø 155mm pulley, for octa 40-60 end cap with clips | <a href="#">2001975</a> |
|   | 170mm    | Ø 170mm pulley, for octa 40-60 end cap with clips | <a href="#">2001976</a> |

### END CAP FOR PULLEY SIDE

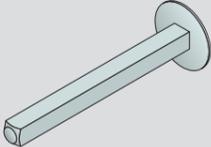
| END CAP   | TUBE      | DESCRIPTION  | REFERENCE               |
|---|-----------|--|-------------------------|
|  | Octa 40mm | End cap for octa 40 tube, length 102, for Ø 28mm bearing | <a href="#">2003531</a> |
|  | Octa 60mm | End cap for octa 60 tube, length 96, for Ø 28mm bearing  | <a href="#">2003529</a> |
|  | -         | Ø 28mm bearing   | <a href="#">2003455</a> |

## COMBINED WINDOW SHUTTER SYSTEM

### PULLEY

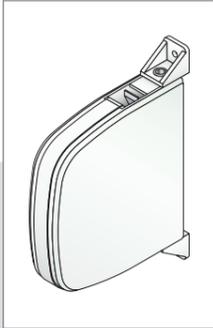
| PRODUCT   | DIAMETER | DESCRIPTION                        | REFERENCE               |
|---|----------|------------------------------------|-------------------------|
|  | 100mm    | Ø 100mm pulley, female 10mm square | <a href="#">2003091</a> |
|   | 120mm    | Ø 120mm pulley, female 10mm square | <a href="#">2003092</a> |
|   | 150mm    | Ø 150mm pulley, female 10mm square | <a href="#">2003093</a> |

### END CAP FOR PULLEY SIDE

| END CAP   | TUBE      | DESCRIPTION   | REFERENCE               |
|---|-----------|---|-------------------------|
|  | Octa 40mm | End cap for octa 40 tube, length 80mm, female 10mm square, clips + screws | <a href="#">2003106</a> |
|  | Octa 60mm | End cap for octa 60 tube, length 96mm, female 10mm square, clips + screws | <a href="#">2003104</a> |
|  | -         | 10mm square operating pivot, length 120mm                                 | <a href="#">2002648</a> |

## TAPE COILER OPERATION

### TAPE COILER

| TAPE COILER  | DESCRIPTION                                  | REFERENCE |
|--|--|-----------|
|  | White tape coiler, with 14mm belt, length 5m | 2001661   |
|  | White tape coiler, without belt              | 2001663   |

### ACCESSORIES

| ACCESSORIES   | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|  | Grey belt, 14mm width, 50m roll                           | 2001941   |
|  | Grey belt, 20mm width, 100m roll                          | 2001943   |
|  | 16mm white guide for belt, recessed mounting, nylon wheel | 2001728   |
|  | 16mm white guide for belt, surface mounting, nylon wheel  | 2001732   |

## CORD GEAR OPERATION

### CORD GEAR

| GEAR  | DESCRIPTION   | REFERENCE |
|---|---|-----------|
|  | White cord gear, ratio 1/3, without cord (20kg maxi.) | 2001672   |

### ACCESSORIES

| ACCESSORIES   | DESCRIPTION  | REFERENCE |
|---|--|-----------|
|  | Handle, nickel plated steel, 140mm arm               | 2001873   |
|  | White nylon cord, Ø 4.3mm, 100m roll                 | 2001934   |
|  | Brown nylon cord, Ø 4.3mm, 100m roll                 | 2001937   |
|  | White guide for cord, steel wheel                    | 2001737   |
|  | White guide for cord, nylon wheel, 105mm guiding     | 2001738   |
|  | White guide for cord, recessed mounting, steel wheel | 2001744   |

# BALANCING SPRINGS

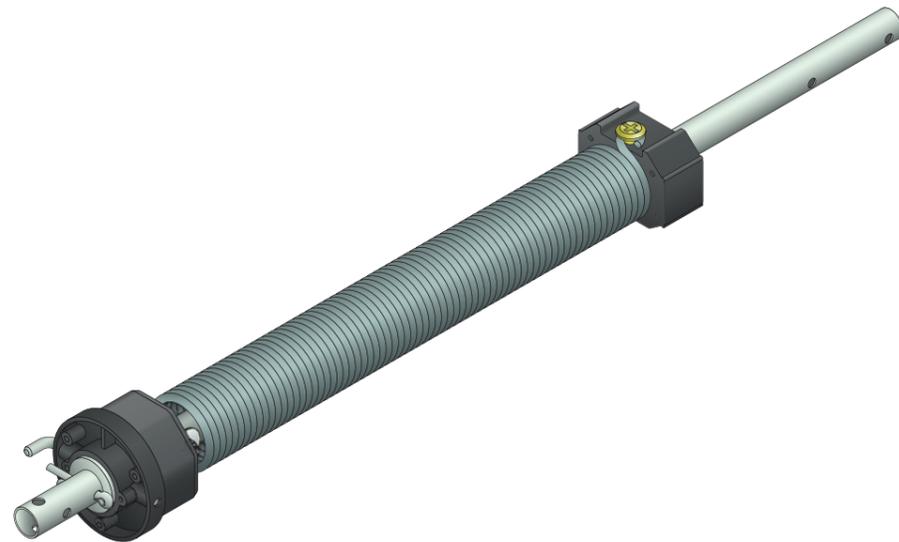
## BALANCING SPRINGS

THE BALANCING SPRINGS

...consist of a steel tube  $\varnothing 16 \times 1.5\text{mm}$ , a spring, polyamide end caps and fixing elements .

### FOR DIRECT PULLING

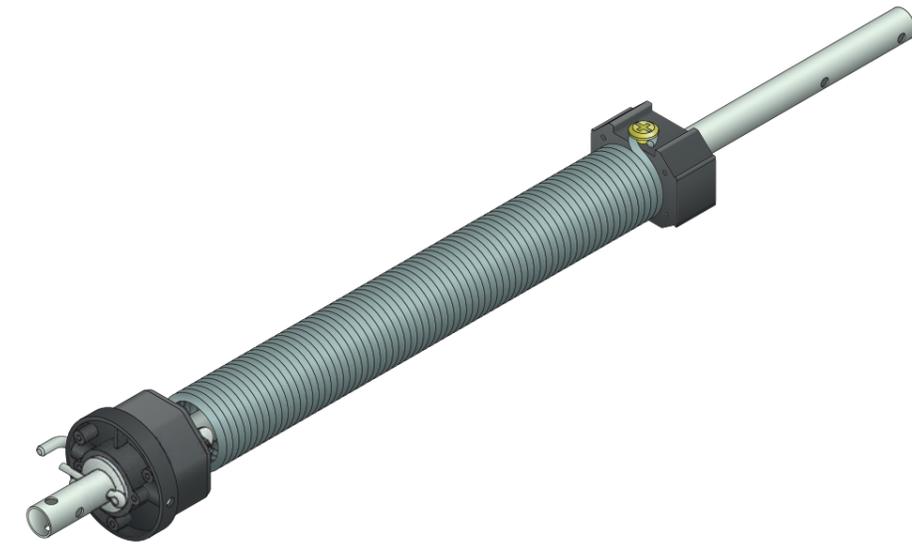
Always mounted on the left - rolling seen from inside. Maxi spring tension 18 rounds



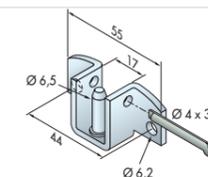
| DESCRIPTION  | REFERENCE |
|--|-----------|
| Balancing spring for direct pulling, maxi fabric 7 kg, octa 60 tube<br>24/10 x 400 spring, 625mm overall length  | 2008086   |
| Balancing spring for direct pulling, maxi fabric 12 kg, octa 60 tube<br>30/10 x 500 spring, 835mm overall length | 2008087   |

### FOR BALANCING

Always mounted on the left - rolling seen from inside. Zinc plated steel shaft



| DESCRIPTION   | REFERENCE |
|---|-----------|
| Left balancing spring, maxi fabric 10kg, octa 60 tube<br>34/10 x 350 spring, 625mm overall length   | 2008083   |
| Left balancing spring, maxi fabric 20kg, octa 60 tube<br>44/10 x 600 spring, 835mm overall length   | 2008084   |
| Left balancing spring, maxi fabric 30kg, octa 70 tube,<br>49/10 x 750 spring, 1045mm overall length | 2008085   |



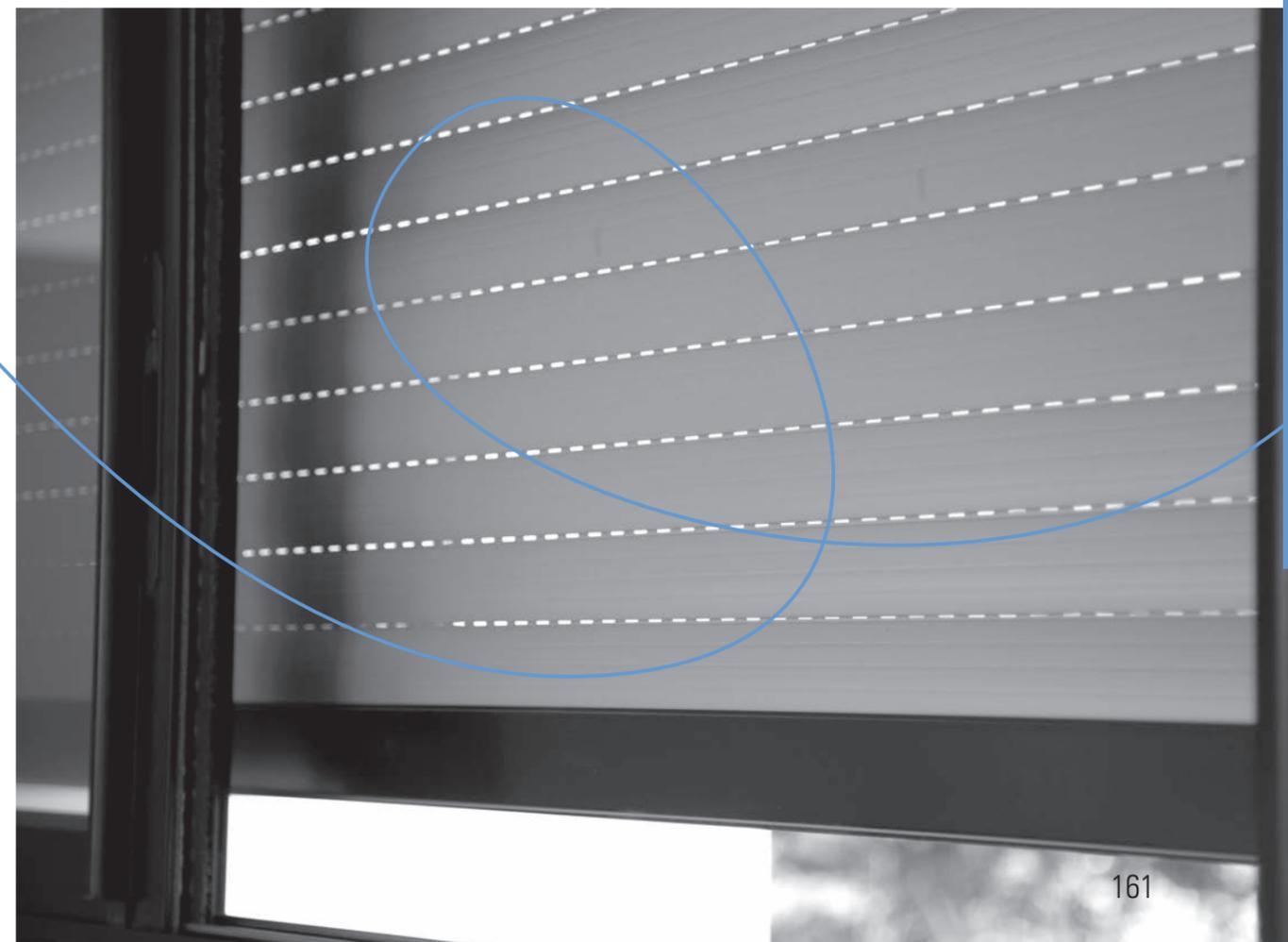
|                                 |         |
|---------------------------------|---------|
| Bracket for 16mm square or tube | 9017188 |
|---------------------------------|---------|



|  |         |
|--|---------|
| Bag including balancing accessories for octa 60 tube:<br>It allows a left balancing spring to become a right one | 9017304 |
|--|---------|

## ACCESSORIES AND COMPONENTS

## FOR ROLLER SHUTTERS



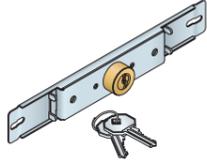
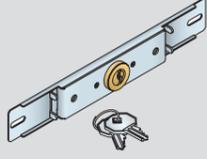
# ACCESSORIES

## FOR TUBE AND FABRIC

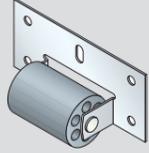
### ADAPTORS

| ADAPTORS  | DESCRIPTION                          | REFERENCE |         |
|---|--------------------------------------|-----------|---------|
|   |                                      | x 100     | x 200   |
|    | Ø 80mm outside, octa 60 tube inside  | -         | 2003500 |
|    | Ø 50mm outside, octa 40 tube inside  | -         | 2003499 |
|   | Ø 80mm outside, octa 70 tube inside  | -         | 2003501 |
|  | Ø 101mm outside, octa 70 tube inside | 2003502   | -       |

### CYLINDER LOCKS

| LOCKS   | DESCRIPTION                            | REFERENCE |
|---|--|-----------|
|   |  | x 50      |
|  | Lock for final lath with 2 keys        | 2003432   |
|  | Lock for intermediate lath with 2 keys | 2003435   |

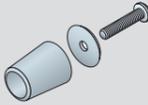
### GUIDE ROLL

| GUIDE ROLL  | DESCRIPTION | REFERENCE |
|---|-------------|-----------|
|   |             | x 200     |
|  | Guide roll  | 2001826   |

### LIFTING GRIPS FOR 9 MM LATH

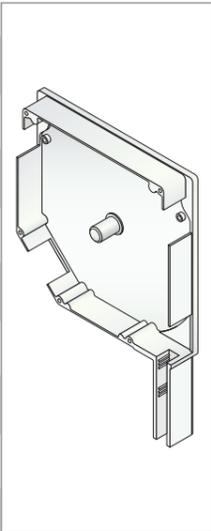
| LIFTING GRIPS   | DESCRIPTION                 | REFERENCE<br>x 500 |
|---|-----------------------------|--------------------|
|  | Plastic lifting grip, white | 2001944            |
|  | Plastic lifting grip, brown | 2001945            |

### CONICAL STOPPERS

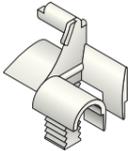
| CONICAL STOPPERS  | DESCRIPTION   | REFERENCE |         |
|---|---|-----------|---------|
|   |   | x 200     | x 1000  |
|   | 40mm conical stopper, white, galvanized screw       | -         | 2003485 |
|  | 40mm conical stopper, grey, galvanized screw        | -         | 2003486 |
|  | 40mm conical stopper, brown, galvanized screw       | -         | 2003487 |
|  | 40mm conical stopper, white, stainless steel screws | -         | 2003491 |
|  | 40mm conical stopper, grey, stainless steel screws  | 2003492   | -       |

### COMPONENTS FOR RENOVATION SYSTEM

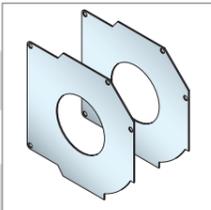
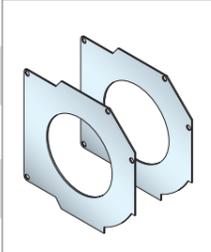
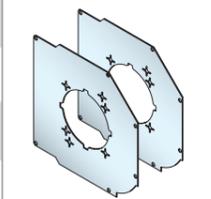
#### MINI45° RENOVATION SIDE FRAME

| SIDE FRAME   | TYPE | DESCRIPTION                                       | REFERENCE<br>x 25 pairs |
|--|------|---|-------------------------|
|  | 137  | Mini 45° renovation side frame, white, 137mm      | 2004751                 |
|  | 150  | Mini 45° renovation side frame, white, 150mm      | 2004758                 |
|  | 165  | Mini 45° renovation side frame, white, 165mm      | 2004765                 |
|  | 180  | Mini 45° renovation side frame, white, 180mm      | 2004771                 |
|  | 205  | Mini 45° renovation side frame, white, 205mm      | 2004777                 |
|  | 137  | Mini 45° renovation side frame, white 9010, 137mm | 2004755                 |
|  | 150  | Mini 45° renovation side frame, white 9010, 150mm | 2004762                 |
|  | 165  | Mini 45° renovation side frame, white 9010, 165mm | 2004768                 |
|  | 180  | Mini 45° renovation side frame, white 9010, 180mm | 2004783                 |
|  | 205  | Mini 45° renovation side frame, white 9010, 205mm | 2004781                 |

#### ENTRY GUIDE FOR MINI 45° RENOVATION SIDE FRAME

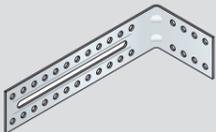
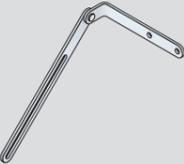
| ENTRY GUIDE   | DESCRIPTION                                | REFERENCE<br>x 200 pairs |
|---|--|--------------------------|
|  | Entry guide for mini 45° side frame, white | 2003148                  |

#### PLATES FOR MINI 45° RENOVATION SIDE FRAME

| PLATES  | TYPE   | DESCRIPTION                                 | x 1 pair                                    | REFERENCE<br>x 40 pairs | x 50 pairs |
|---|--|---|---|-------------------------|------------|
|    | 137  | Plate with a 55mm hole for 137mm side frame | 2005313                                     | -                       | -          |
|   | 150  | Plate with a 55mm hole for 150mm side frame | -   | -                       | 2004738    |
|   | 180  | Plate with a 55mm hole for 180mm side frame | -   | -                       | 2004740    |
|   | 205  | Plate with a 55mm hole for 205mm side frame | -   | 2004741                 | -          |
|   |  | 137   | Plate with a 72mm hole for 137mm side frame | 2005314                 | -          |
| 150   |  | Plate with a 72mm hole for 150mm side frame | -   | -                       | 2004742    |
| 165   |  | Plate with a 72mm hole for 165mm side frame | -   | -                       | 2004743    |
| 180   |  | Plate with a 72mm hole for 180mm side frame | -   | -                       | 2004744    |
| 205   |  | Plate with a 72mm hole for 205mm side frame | -   | 2004745                 | -          |
|  | 150  | Plate for 150mm side frame, for DMI         | -   | -                       | 2005294    |
|   | 165  | Plate for 165mm side frame, for DMI         | -   | -                       | 2005295    |
|   | 180  | Plate for 180mm side frame, for DMI         | -   | -                       | 2005296    |
|   | 205  | Plate for 205mm side frame, for DMI         | -   | 2005297                 | -          |

### COMPONENTS FOR WALL INTEGRATED SYSTEM

#### BRACKETS

| BRACKET   | DESCRIPTION  | REFERENCE |
|---|--|-----------|
|    | 195 x 135 x 40mm bracket for frame                                   | 2003615   |
|   | 210 x 80 x 50mm square bracket for window lintel, Ø 6.5 holes        | 2003620   |
|  | 210 x 80 x 50mm square bracket for window lintel, Ø 6.5 and M5 holes | 2003621   |
|  | 67.5 x 40 x 80mm square bracket for window lintel                    | 2003622   |
|  | 114 x 65 x 105mm reinforced square bracket for window lintel         | 2003623   |
|  | 180 x 115mm strut  | 2003452   |
|  | 170 x 55mm strut   | 2003616   |

MOTOR REFERENCES p 170

CONTROL AND ACCESSORY REFERENCES p 178

TERMS AND CONDITIONS FOR SALE p 186

# REFERENCES



## LISTING BY MOTOR RANGE

| REFERENCE  | DESCRIPTION                                     | PACKAGED BY | PAGE  |
|--|---|-------------|-------|
| <b>T3.5 E Hz DC MOTORS - 12 VDC - without screw</b>  |   |             |       |
| 2006996  | T3.5 E Hz 3Nm/23rpm 12V DC x1                   | 1           | p. 22 |
| 2006998  | T3.5 E Hz 6Nm/18rpm 12V DC x1                   | 1           | p. 22 |
| 2007000  | T3.5 E Hz 10Nm/12rpm 12V DC x1                  | 1           | p. 22 |
| 2006997  | T3.5 E Hz 3Nm/23rpm 12V DC x10                  | 10          | p. 22 |
| 2006999  | T3.5 E Hz 6Nm/18rpm 12V DC x10                  | 10          | p. 22 |
| 2007001  | T3.5 E Hz 10Nm/12rpm 12V DC x10                 | 10          | p. 22 |
| 2007753  | T3.5 E Hz 6Nm/18rpm 12V DC x100                 | 100         | p. 22 |
| <b>AUTOSUN - Full set</b>  |   |             |       |
| 2007002  | T3.5EHZ 3Nm/23rpm 12VDC+SOLAR KIT 1PANEL        | 1           | p. 25 |
| 2007003  | T3.5EHZ 6Nm/18rpm 12VDC+SOLAR KIT 1PANEL        | 1           | p. 25 |
| 2007005  | T3.5EHZ10Nm/12rpm 12VDC+SOLAR KIT 1PANEL        | 1           | p. 25 |
| 2007004  | T3.5EHZ 6Nm/18rpm 12VDC+SOLAR KIT 2PANELS       | 1           | p. 25 |
| 2007006  | T3.5EHZ10Nm/12rpm 12VDC+SOLAR KIT 2PANELS       | 1           | p. 25 |
| <b>Solar panel + battery set</b>   |   |             |       |
| 9014731  | SOLAR KIT + 1 BATTERY 1P                        | 1           | p. 25 |
| 9014732  | SOLAR KIT + 1 BATTERY 2P                        | 1           | p. 25 |
| <b>AUTOSUN : Components and accessories</b>  |   |             |       |
| 9014734  | BATTERY FOR SOLAR KIT                           | 1           | p. 25 |
| 9014736  | SOLAR PANEL (NEW MODEL)                         | 1           | p. 25 |
| 9015562  | KIT 10 CLIPS FOR SOLAR PANEL AUTOSUN            | 1           | p. 25 |
| 9017661  | KIT 10 AUTOSUN BATTERY BRACKET                  | 1           | p. 25 |
| 5050240A   | SOLAR PANEL CONNECT                             | 1           | p. 25 |
| 9014738  | SUPPLY OF REPAIR                                | 1           | p. 25 |
| <b>T3.5 MOTORS - 12 VDC - without screw, with rigid screwdriver and 2.5 meter length cable</b> |   |             |       |
| 2006973  | T3.5 3Nm/23rpm 12 VDC x1                        | 1           | p. 28 |
| 2006975  | T3.5 6Nm/18rpm 12 VDC x1                        | 1           | p. 28 |
| 2006977  | T3.5 10Nm/12rpm 12 VDC x1                       | 1           | p. 28 |
| 2006979  | T3.5 3Nm/23rpm 12 VDC x10                       | 10          | p. 28 |
| 2006981  | T3.5 6Nm/18rpm 12 VDC x10                       | 10          | p. 28 |
| 2006983  | T3.5 10Nm/12rpm 12 VDC x10                      | 10          | p. 28 |
| <b>T3.5 MOTORS - 24 VDC - without screw, with rigid screwdriver and 2.5 meter length cable</b> |   |             |       |
| 2006974  | T3.5 3Nm/28rpm - 24 VDC x1                      | 1           | p. 28 |
| 2006976  | T3.5 6Nm/18rpm - 24 VDC x1                      | 1           | p. 28 |
| 2006978  | T3.5 10Nm/12rpm - 24 VDC x1                     | 1           | p. 28 |
| 2006980  | T3.5 3Nm/28rpm - 24 VDC x10                     | 10          | p. 28 |
| 2006982  | T3.5 6Nm/18rpm - 24 VDC x10                     | 10          | p. 28 |
| 2006984  | T3.5 10Nm/12rpm - 24 VDC x10                    | 10          | p. 28 |
| <b>T5 MOTORS - 12 VDC - with screws, rigid screwdriver and 2.5 meter length cable</b>          |   |             |       |
| 2004492  | T5 15Nm/14rpm- 12 VDC X1 C2.5 WHITE CEM         | 1           | p. 30 |
| 2004493  | T5 20Nm/10rpm- 12 VDC X1 C2.5 WHITE CEM         | 1           | p. 30 |
| 2004494  | T5 35Nm/7rpm- 12 VDC X1 C2.5 WHITE CEM          | 1           | p. 30 |
| <b>T5 MOTORS - 24 VDC - with screws, rigid screwdriver and 2.5 meter length cable</b>          |   |             |       |
| 2004495  | T5 15Nm/14rpm- 24 VDC X1 C2.5 WHITE CEM         | 1           | p. 30 |
| 2004496  | T5 20Nm/10rpm- 24 VDC X1 C2.5 WHITE CEM         | 1           | p. 30 |
| 2004497  | T5 35Nm/7rpm- 24 VDC X1 C2.5 WHITE CEM          | 1           | p. 30 |
| <b>T3.5 Hz.02 MOTORS - 230V / 50Hz - with screws and 3 meter length cable</b>                  |   |             |       |
| 2006285  | NT3.5Hz02 - 3Nm/25rpm C3m non adapted WHITE x1  | 1           | p. 32 |
| 2006287  | NT3.5Hz02 - 4Nm/12rpm C3m non adapted WHITE x1  | 1           | p. 32 |
| 2006291  | NT3.5Hz02 - 9Nm/12rpm C3m non adapted WHITE x1  | 1           | p. 32 |
| 2006293  | NT3.5Hz02 - 13Nm/18rpm C3m non adapted WHITE x1 | 1           | p. 32 |

| REFERENCE  | DESCRIPTION                                     | PACKAGED BY | PAGE  |
|--|---|-------------|-------|
| 2006285  | NT3.5Hz02 - 3Nm/25rpm C3m non adapted WHITE x10 | 10          | p. 32 |
| 2006288  | NT3.5Hz02 - 4Nm/12rpm C3m WHITE x10             | 10          | p. 32 |
| 2006292  | NT3.5Hz02 - 9Nm/12rpm C3m WHITE x10             | 10          | p. 32 |
| 2006294  | NT3.5Hz02 - 13Nm/18rpm C3m WHITE x10            | 10          | p. 32 |
| 2006933  | NT3.5Hz02 - 04Nm/12rpm C3m BLACK x1             | 1           | p. 32 |
| 2006932  | NT3.5Hz02 - 04Nm/12rpm C3m BLACK x10            | 10          | p. 32 |
| 2007748  | NT3.5Hz02 - 04Nm/12rpm C3m BLACK x100           | 100         | p. 32 |
| 2007137  | NT3.5Hz02 - 09Nm/12rpm C3m WHITE x100           | 100         | p. 32 |
| <b>T3.5 AUTO MOTORS - 230V / 50Hz - without screw, with 2.5 meter length cable</b>                   |   |             |       |
| 2007356  | T3.5 AUTO 4Nm/12rpm C2.5m WHITE/1               | 1           | p. 34 |
| 2007357  | T3.5 AUTO 9Nm/12rpm C2.5m WHITE/1               | 1           | p. 34 |
| 2007358  | T3.5 AUTO 13Nm/8rpm C2.5m WHITE/1               | 1           | p. 34 |
| 2007353  | T3.5 AUTO 4Nm/12rpm C2.5m WHITE/10              | 10          | p. 34 |
| 2007354  | T3.5 AUTO 9Nm/12rpm C2.5m WHITE/10              | 10          | p. 34 |
| 2007355  | T3.5 AUTO 13Nm/8rpm C2.5m WHITE/10              | 10          | p. 34 |
| <b>T3.5 MOTORS - 230V / 50Hz - without screw, with rigid screwdriver and 2.5 meter length cable</b>  |   |             |       |
| 2004356  | NT3.5 3Nm/25rpm 230/50 MADO 50x10               | 1           | p. 36 |
| 2004352  | NT3.5 4Nm/12rpm 230/50 NON ADAPTED              | 1           | p. 36 |
| 2004359  | NT3.5 6Nm/12rpm 230/50 NON ADAPTED              | 1           | p. 36 |
| 2004362  | NT3.5 9Nm/12rpm 230/50 NON ADAPTED              | 1           | p. 36 |
| 2004367  | NT3.5 13Nm/8rpm 230/50 NON ADAPTED              | 1           | p. 36 |
| 2005298  | NT3.5 4Nm/12rpm 230/50 SCREWDRIVER              | 10          | p. 36 |
| 2005312  | NT3.5 6Nm/12rpm 230/50 SCREWDRIVER              | 10          | p. 36 |
| 2005299  | NT3.5 9Nm/12rpm 230/50 SCREWDRIVER              | 10          | p. 36 |
| 2005300  | NT3.5 13Nm/8rpm 230/50 SCREWDRIVER              | 10          | p. 36 |
| 2007754  | NT3.5 2Nm/25rpm 230/50 NON ADAPTED              | 100         | p. 36 |
| <b>T3.5 MOTORS - 230V / 50Hz - without screw, with supple screwdriver and 2.5 meter length cable</b> |   |             |       |
| 2005919  | NT3.5 3Nm/25rpm 230/50 FST NON ADAPTED          | 10          | p. 36 |
| 2005920  | NT3.5 4Nm/12rpm 230/50 FST NON ADAPTED          | 10          | p. 36 |
| 2005918  | NT3.5 6Nm/12rpm 230/50 FST                      | 10          | p. 36 |
| 2005921  | NT3.5 9Nm/12rpm 230/50 FST NON ADAPTED          | 10          | p. 36 |
| 2005922  | NT3.5 13Nm/8rpm 230/50 FST NON ADAPTED          | 10          | p. 36 |
| <b>T3.5 MOTORS - 120V / 60Hz - without screw, with rigid screwdriver and 2.5 meter length cable</b>  |   |             |       |
| 2004351  | NT3.5 4Nm/30rpm HU 120V/60Hz                    | 1           | p. 36 |
| 2004371  | NT3.5 6Nm/14rpm HU 120V/60Hz                    | 1           | p. 36 |
| 2004372  | NT3.5 9Nm/14rpm HU 120V/60Hz                    | 1           | p. 36 |
| <b>T5 AUTO SHORT Hz MOTORS - 230V / 50Hz - with screws and 3 meter length cable</b>                  |   |             |       |
| 2006744  | T5 AUTO SHORT Hz 6Nm/17rpm C3M 230V/50Hz        | 1           | p. 38 |
| 2006745  | T5 AUTO SHORT Hz 6Nm/17rpm C3M 230V/50Hz        | 10          | p. 38 |
| <b>T5 E Hz MOTORS - 230V / 50Hz - with screws and 2.5 meter length cable</b>                         |   |             |       |
| 2005366  | T5 E Hz 08Nm/17rpm 230/50 C2.5M WHITE           | 1           | p. 40 |
| 2005367  | T5 E Hz 10Nm/17rpm 230/50 C2.5M WHITE           | 1           | p. 40 |
| 2005368  | T5 E Hz 15Nm/17rpm 230/50 C2.5M WHITE           | 1           | p. 40 |
| 2005369  | T5 E Hz 20Nm/17rpm 230/50 C2.5M WHITE           | 1           | p. 40 |
| 2005370  | T5 E Hz 25Nm/17rpm 230/50 C2.5M WHITE           | 1           | p. 40 |
| 2005371  | T5 E Hz 35Nm/17rpm 230/50 C2.5M WHITE           | 1           | p. 40 |
| 2005372  | T5 E Hz 50Nm/12rpm 230/50 C2.5M WHITE           | 1           | p. 40 |
| 2005373  | T5 E Hz 08Nm/17rpm 230/50 C2.5M WHITE           | 10          | p. 40 |
| 2005374  | T5 E Hz 10Nm/17rpm 230/50 C2.5M WHITE           | 10          | p. 40 |
| 2005375  | T5 E Hz 15Nm/17rpm 230/50 C2.5M WHITE           | 10          | p. 40 |
| 2005376  | T5 E Hz 20Nm/17rpm 230/50 C2.5M WHITE           | 10          | p. 40 |
| 2005377  | T5 E Hz 25Nm/17rpm 230/50 C2.5M WHITE           | 10          | p. 40 |
| 2005378  | T5 E Hz 35Nm/17rpm 230/50 C2.5M WHITE           | 10          | p. 40 |
| 2005379  | T5 E Hz 50Nm/12rpm 230/50 C2.5M WHITE           | 10          | p. 40 |
| 2006065  | T5 E Hz 08Nm/17rpm 230/50 C2.5M WHITE           | 100         | p. 40 |
| 2006066  | T5 E Hz 10Nm/17rpm 230/50 C2.5M WHITE           | 100         | p. 40 |
| 2006067  | T5 E Hz 15Nm/17rpm 230/50 C2.5M WHITE           | 100         | p. 40 |

| REFERENCE   | DESCRIPTION  | PACKAGED BY | PAGE  |
|---|--|-------------|-------|
| <b>T5 E Hz MOTORS - 230V / 50Hz - with screws and 5 meter length cable</b>                |  |             |       |
| 2005691   | T5 E Hz 08Nm/17rpm 230/50 C5M WHITE                | 1           | p. 40 |
| 2005692   | T5 E Hz 10Nm/17rpm 230/50 C5M WHITE                | 1           | p. 40 |
| 2005693   | T5 E Hz 15Nm/17rpm 230/50 C5M WHITE                | 1           | p. 40 |
| 2005694   | T5 E Hz 20Nm/17rpm 230/50 C5M WHITE                | 1           | p. 40 |
| 2005695   | T5 E Hz 25Nm/17rpm 230/50 C5M WHITE                | 1           | p. 40 |
| 2005696   | T5 E Hz 35Nm/17rpm 230/50 C5M WHITE                | 1           | p. 40 |
| 2005697   | T5 E Hz 50Nm/12rpm 230/50 C5M WHITE                | 1           | p. 40 |
| 2005698   | T5 E Hz 08Nm/17rpm 230/50 C5M WHITE                | 10          | p. 40 |
| 2005699   | T5 E Hz 10Nm/17rpm 230/50 C5M WHITE                | 10          | p. 40 |
| 2005722   | T5 E Hz 15Nm/17rpm 230/50 C5M WHITE                | 10          | p. 40 |
| 2005723   | T5 E Hz 20Nm/17rpm 230/50 C5M WHITE                | 10          | p. 40 |
| 2005724   | T5 E Hz 25Nm/17rpm 230/50 C5M WHITE                | 10          | p. 40 |
| 2005725   | T5 E Hz 35Nm/17rpm 230/50 C5M WHITE                | 10          | p. 40 |
| 2005726   | T5 E Hz 50Nm/12rpm 230/50 C5M WHITE                | 10          | p. 40 |
| 2008018   | T5 E Hz 10Nm/17rpm 230/50 C5M WHITE                | 100         | p. 40 |
| <b>T5 E Hz MOTORS - 230V / 50Hz - without pin, with screws and 2.5 meter length cable</b> |  |             |       |
| 2005687   | T5 E Hz 08Nm/17rpm 230/50 WITHOUT PIN              | 1           | p. 40 |
| 2005688   | T5 E Hz 10Nm/17rpm 230/50 WITHOUT PIN              | 1           | p. 40 |
| 2005689   | T5 E Hz 15Nm/17rpm 230/50 WITHOUT PIN              | 1           | p. 40 |
| 2005690   | T5 E Hz 20Nm/17rpm 230/50 WITHOUT PIN              | 1           | p. 40 |
| <b>T5 E Hz MOTORS - 230V / 50Hz - without pin, with screws and 5 meter length cable</b>   |  |             |       |
| 2008040   | T5 E Hz WP 08Nm/17rpm 230/50 C5M WHITE WITHOUT PIN | 100         | p. 40 |
| 2008041   | T5 E Hz WP 10Nm/17rpm 230/50 C5M WHITE WITHOUT PIN | 100         | p. 40 |
| <b>T5 Hz.02 MOTORS - 230V / 50Hz - with screws and 2.5 meter length cable</b>             |  |             |       |
| 2004661   | T5 Hz.02 08/17rpm 230/50 C2.5M WHITE x1            | 1           | p. 42 |
| 2004662   | T5 Hz.02 10/17rpm 230/50 C2.5M WHITE x1            | 1           | p. 42 |
| 2004663   | T5 Hz.02 15/17rpm 230/50 C2.5M WHITE x1            | 1           | p. 42 |
| 2005093   | T5 Hz.02 20/17rpm 230/50 C2.5M WHITE x1            | 1           | p. 42 |
| 2004664   | T5 Hz.02 25/17rpm 230/50 C2.5M WHITE x1            | 1           | p. 42 |
| 2004665   | T5 Hz.02 35/17rpm 230/50 C2.5M WHITE x1            | 1           | p. 42 |
| 2004666   | T5 Hz.02 50/12rpm 230/50 C2.5M WHITE x1            | 1           | p. 42 |
| 2005094   | T5 Hz.02 08/17rpm 230/50 C2.5M WHITE x10           | 10          | p. 42 |
| 2005095   | T5 Hz.02 10/17rpm 230/50 C2.5M WHITE x10           | 10          | p. 42 |
| 2005096   | T5 Hz.02 15/17rpm 230/50 C2.5M WHITE x10           | 10          | p. 42 |
| 2005097   | T5 Hz.02 20/17rpm 230/50 C2.5M WHITE x10           | 10          | p. 42 |
| 2005098   | T5 Hz.02 25/17rpm 230/50 C2.5M WHITE x10           | 10          | p. 42 |
| 2005099   | T5 Hz.02 35/17rpm 230/50 C2.5M WHITE x10           | 10          | p. 42 |
| 2005100   | T5 Hz.02 50/12rpm 230/50 C2.5M WHITE x10           | 10          | p. 42 |
| 2005898   | T5 Hz.02 08/17rpm 230/50 C2.5M WHITE x100          | 100         | p. 42 |
| 2005899   | T5 Hz.02 10/17rpm 230/50 C2.5M WHITE x100          | 100         | p. 42 |
| 2005900   | T5 Hz.02 15/17rpm 230/50 C2.5M WHITE x100          | 100         | p. 42 |
| <b>T5 Hz.02 MOTORS - 230V / 50Hz - with screws and 5 meter length cable</b>               |  |             |       |
| 2006229   | T5 Hz.02 08/17rpm 230/50 C5M WHITE x1              | 1           | p. 42 |
| 2006230   | T5 Hz.02 10/17rpm 230/50 C5M WHITE x1              | 1           | p. 42 |
| 2005741   | T5 Hz.02 15/17rpm 230V 5M WHITE x1                 | 1           | p. 42 |
| 2006231   | T5 Hz.02 20/17rpm 230/50 C5M WHITE x1              | 1           | p. 42 |
| 2006232   | T5 Hz.02 25/17rpm 230/50 C5M WHITE x1              | 1           | p. 42 |
| 2006233   | T5 Hz.02 35/17rpm 230/50 C5M WHITE x1              | 1           | p. 42 |
| 2005742   | T5 Hz.02 50/12rpm 230V 5M WHITE x1                 | 1           | p. 42 |
| 2006130   | T5 Hz.02 08/17rpm 230/50 C5M WHITE x10             | 10          | p. 42 |
| 2006131   | T5 Hz.02 10/17rpm 230/50 C5M WHITE x10             | 10          | p. 42 |
| 2006132   | T5 Hz.02 20/17rpm 230/50 C5M WHITE x10             | 10          | p. 42 |
| 2006133   | T5 Hz.02 25/17rpm 230/50 C5M WHITE x10             | 10          | p. 42 |
| 2006134   | T5 Hz.02 35/17rpm 230/50 C5M WHITE x10             | 10          | p. 42 |
| 2006135   | T5 Hz.02 50/12rpm 230/50 C5M WHITE x10             | 10          | p. 42 |
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| 2006352   | T5 Hz.02 10/12rpm 120/60 WHITE x1                  | 1           | p. 42 |
| 2005133   | T5 Hz.02 15/18rpm 120/60 C6FT WHITE x1             | 1           | p. 42 |
| 2006353   | T5 Hz.02 20/12rpm 120/60 WHITE x1                  | 1           | p. 42 |
| 2005134   | T5 Hz.02 25/18rpm 120/60 C6FT WHITE x1             | 1           | p. 42 |
| 2005135   | T5 Hz.02 35/18rpm 120/60 C6FT WHITE x1             | 1           | p. 42 |
| 2005136   | T5 Hz.02 30/12rpm 120/60 C6FT WHITE x1             | 1           | p. 42 |
| 2005137   | T5 Hz.02 50/12rpm 120/60 C6FT WHITE x1             | 1           | p. 42 |

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| <b>DMI5 Hz.01 MOTORS - 230V / 50Hz - without screw, with rigid screwdriver and 2.5 meter length cable</b> |   |             |       |
| 2004667   | DMI5 Hz 10/17rpm -230/50 C2.5M WHITE x1     | 1           | p. 44 |
| 2004668   | DMI5 Hz 25/17rpm -230/50 C2.5M WHITE x1     | 1           | p. 44 |
| 2004669   | DMI5 Hz 35/17rpm -230/50 C2.5M WHITE x1     | 1           | p. 44 |
| 2004670   | DMI5 Hz 50/12rpm -230/50 C2.5M WHITE x1     | 1           | p. 44 |
| <b>DMI5 Hz.01 MOTORS - 120V / 60Hz - without screw, with rigid screwdriver and 6 meter length cable</b>   |   |             |       |
| 2004671   | DMI5 Hz 15/18rpm -120/60 C6M WHITE x1       | 1           | p. 44 |
| 2004672   | DMI5 Hz 25/18rpm -120/60 C6M WHITE x1       | 1           | p. 44 |
| 2004673   | DMI5 Hz 30/12rpm -120/60 C6M WHITE x1       | 1           | p. 44 |
| 2004674   | DMI5 Hz 35/18rpm -120/60 C6M WHITE x1       | 1           | p. 44 |
| 2004675   | DMI5 Hz 50/12rpm -120/60 C6M WHITE x1       | 1           | p. 44 |
| <b>T5 AUTO MOTORS - 230V / 50Hz - with screw, without cable</b>   |   |             |       |
| 2006685   | T5AUTO 06Nm/17rpm 230/50 WITHOUT CABLE x1   | 1           | p. 46 |
| 2006686   | T5AUTO 10Nm/17rpm 230/50 WITHOUT CABLE x1   | 1           | p. 46 |
| 2006687   | T5AUTO 15Nm/17rpm 230/50 WITHOUT CABLE x1   | 1           | p. 46 |
| 2006688   | T5AUTO 20Nm/17rpm 230/50 WITHOUT CABLE x1   | 1           | p. 46 |
| 2006689   | T5AUTO 25Nm/17rpm 230/50 WITHOUT CABLE x1   | 1           | p. 46 |
| 2006690   | T5AUTO 35Nm/17rpm 230/50 WITHOUT CABLE x1   | 1           | p. 46 |
| 2007047   | T5AUTO 06Nm/17rpm 230/50 WITHOUT CABLE x10  | 10          | p. 46 |
| 2007048   | T5AUTO 10Nm/17rpm 230/50 WITHOUT CABLE x10  | 10          | p. 46 |
| 2007049   | T5AUTO 15Nm/17rpm 230/50 WITHOUT CABLE x10  | 10          | p. 46 |
| 2006694   | T5AUTO 20Nm/17rpm 230/50 WITHOUT CABLE x10  | 10          | p. 46 |
| 2006695   | T5AUTO 25Nm/17rpm 230/50 WITHOUT CABLE x10  | 10          | p. 46 |
| 2006696   | T5AUTO 35Nm/17rpm 230/50 WITHOUT CABLE x10  | 10          | p. 46 |
| 2007050   | T5AUTO 06Nm/17rpm 230/50 WITHOUT CABLE x100 | 100         | p. 46 |
| 2007051   | T5AUTO 10Nm/17rpm 230/50 WITHOUT CABLE x100 | 100         | p. 46 |
| 2007052   | T5AUTO 15Nm/17rpm 230/50 WITHOUT CABLE x100 | 100         | p. 46 |
| <b>T5 AUTO MOTORS - 230V / 50Hz - with screws and 2.5 meter length cable</b>                              |   |             |       |
| 2006700   | T5AUTO 06/17rpm 230/50 C2.5M /1             | 1           | p. 46 |
| 2006701   | T5AUTO 10/17rpm 230/50 C2.5M /1             | 1           | p. 46 |
| 2006702   | T5AUTO 15/17rpm 230/50 C2.5M /1             | 1           | p. 46 |
| 2006703   | T5AUTO 20/17rpm 230/50 C2.5M /1             | 1           | p. 46 |
| 2006704   | T5AUTO 25/17rpm 230/50 C2.5M /1             | 1           | p. 46 |
| 2006705   | T5AUTO 35/17rpm 230/50 C2.5M /1             | 1           | p. 46 |
| 2007053   | T5AUTO 06/17rpm 230/50 C2.5M /10            | 10          | p. 46 |
| 2007054   | T5AUTO 10/17rpm 230/50 C2.5M /10            | 10          | p. 46 |
| 2007055   | T5AUTO 15/17rpm 230/50 C2.5M /10            | 10          | p. 46 |
| 2006709   | T5AUTO 20/17rpm 230/50 C2.5M /10            | 10          | p. 46 |
| 2006710   | T5AUTO 20/17rpm 230/50 C2.5M /10            | 10          | p. 46 |
| 2006711   | T5AUTO 35/17rpm 230/50 C2.5M /10            | 10          | p. 46 |
| 2007056   | T5AUTO 06/17rpm 230/50 C2.5M /100           | 100         | p. 46 |
| 2007057   | T5AUTO 10/17rpm 230/50 C2.5M /100           | 100         | p. 46 |
| 2007058   | T5AUTO 15/17rpm 230/50 C2.5M /100           | 100         | p. 46 |
| 2006715   | T5AUTO 20/17rpm 230/50 C2.5M /100           | 100         | p. 46 |
| <b>T5 AUTO MOTORS - 230V / 50Hz - with screws and 5 meter length cable</b>                                |   |             |       |
| 2006728   | T5AUTO 06/17 230/50 C5M /1                  | 1           | p. 46 |
| 2006729   | T5AUTO 10/17 230/50 C5M /1                  | 1           | p. 46 |
| 2006730   | T5AUTO 15/17 230/50 C5M /1                  | 1           | p. 46 |
| 2006731   | T5AUTO 20/17 230/50 C5M /1                  | 1           | p. 46 |
| 2006732   | T5AUTO 25/17 230/50 C5M /1                  | 1           | p. 46 |
| 2006733   | T5AUTO 35/17 230/50 C5M /1                  | 1           | p. 46 |
| 2006734   | T5AUTO 06/17 230/50 C5M /10                 | 10          | p. 46 |
| 2006735   | T5AUTO 10/17 230/50 C5M /10                 | 10          | p. 46 |
| 2006736   | T5AUTO 15/17 230/50 C5M /10                 | 10          | p. 46 |
| 2006737   | T5AUTO 20/17 230/50 C5M /10                 | 10          | p. 46 |
| <b>T5 AUTO MOTORS - 230V / 50Hz - without pins, with screws and 2.5 meter length cable</b>                |   |             |       |
| 2006716   | T5AUTO 06/17 230/50 WITHOUT PIN C2,5M /1    | 1           | p. 46 |
| 2006717   | T5AUTO 10/17 230/50 WITHOUT PIN C2,5M /1    | 1           | p. 46 |
| 2006718   | T5AUTO 15/17 230/50 WITHOUT PIN C2,5M /1    | 1           | p. 46 |
| 2006719   | T5AUTO 20/17 230/50 WITHOUT PIN C2,5M /1    | 1           | p. 46 |
| 2006720   | T5AUTO 25/17 230/50 WITHOUT PIN C2,5M /1    | 1           | p. 46 |
| 2006721   | T5AUTO 35/17 230/50 WITHOUT PIN C2,5M /1    | 1           | p. 46 |

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| 2007060  | T5 AUTO 10/17 230/50 WITHOUT PIN C2.5 /10                  | 10          | p. 46 |
| 2007061  | T5 AUTO 15/17 230/50 WITHOUT PIN C2.5 /10                  | 10          | p. 46 |
| 2006725  | T5AUTO 20/17 230/50 WITHOUT PIN C2.5M /10                  | 10          | p. 46 |
| 2006726  | T5AUTO 25/17 230/50 WITHOUT PIN C2.5M /10                  | 10          | p. 46 |
| 2006727  | T5AUTO 35/17 230/50 WITHOUT PIN C2.5M /10                  | 10          | p. 46 |
| <b>T5 AUTO SHORT MOTORS - 230V / 50Hz - with screws and 3 meter length cable</b>           |  |             |       |
| 2006742  | T5 AUTO SHORT 06/17 C3M 230/50                             | 1           | p. 48 |
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| <b>T5 E MOTORS - 230V / 50Hz - with screws and 2.5 meter length cable</b>                  |  |             |       |
| 2005780  | T5 E 08/17 230/50 2.5M WHITE /1                            | 1           | p. 50 |
| 2005781  | T5 E 10/17 230/50 2.5M WHITE /1                            | 1           | p. 50 |
| 2005782  | T5 E 15/17 230/50 2.5M WHITE /1                            | 1           | p. 50 |
| 2005783  | T5 E 20/17 230/50 2.5M WHITE /1                            | 1           | p. 50 |
| 2005784  | T5 E 25/17 230/50 2.5M WHITE /1                            | 1           | p. 50 |
| 2005785  | T5 E 35/17 230/50 2.5M WHITE /1                            | 1           | p. 50 |
| 2005786  | T5 E 50/12 230/50 2.5M WHITE /1                            | 1           | p. 50 |
| 2005787  | T5 E 08/17 230/50 2.5M WHITE /10                           | 10          | p. 50 |
| 2005788  | T5 E 10/17 230/50 2.5M WHITE /10                           | 10          | p. 50 |
| 2005789  | T5 E 15/17 230/50 2.5M WHITE /10                           | 10          | p. 50 |
| 2005790  | T5 E 20/17 230/50 2.5M WHITE /10                           | 10          | p. 50 |
| 2005791  | T5 E 25/17 230/50 2.5M WHITE /10                           | 10          | p. 50 |
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| 2005793  | T5 E 50/12 230/50 2.5M WHITE /10                           | 10          | p. 50 |
| <b>T5 E MOTORS - 230V / 50Hz - with screws and 5 meter length cable</b>                    |  |             |       |
| 2005798  | T5 E 08/17 230/50 5M WHITE /1                              | 1           | p. 50 |
| 2005799  | T5 E 10/17 230/50 5M WHITE /1                              | 1           | p. 50 |
| 2005800  | T5 E 15/17 230/50 5M WHITE /1                              | 1           | p. 50 |
| 2005801  | T5 E 20/17 230/50 5M WHITE /1                              | 1           | p. 50 |
| 2005802  | T5 E 25/17 230/50 5M WHITE /1                              | 1           | p. 50 |
| 2005803  | T5 E 35/17 230/50 5M WHITE /1                              | 1           | p. 50 |
| 2005804  | T5 E 50/12 230/50 5M WHITE /1                              | 1           | p. 50 |
| 2005805  | T5 E 08/17 230/50 5M WHITE /10                             | 10          | p. 50 |
| 2005806  | T5 E 10/17 230/50 5M WHITE /10                             | 10          | p. 50 |
| 2005807  | T5 E 15/17 230/50 5M WHITE /10                             | 10          | p. 50 |
| 2005808  | T5 E 20/17 230/50 5M WHITE /10                             | 10          | p. 50 |
| 2005809  | T5 E 25/17 230/50 5M WHITE /10                             | 10          | p. 50 |
| 2005810  | T5 E 35/17 230/50 5M WHITE /10                             | 10          | p. 50 |
| 2005811  | T5 E 50/12 230/50 5M WHITE /10                             | 10          | p. 50 |
| <b>T5 E MOTORS - 230V / 50Hz - without pin and screw, with 2.5 meter length cable</b>      |  |             |       |
| 2005794  | T5 E WP 08Nm/17 230/50 2.5M WHITE /1                       | 1           | p. 50 |
| 2005795  | T5 E WP 10Nm/17 230/50 2.5M WHITE /1                       | 1           | p. 50 |
| 2005796  | T5 E WP 15Nm/17 230/50 2.5M WHITE /1                       | 1           | p. 50 |
| 2005797  | T5 E WP 20Nm/17 230/50 2.5M WHITE /1                       | 1           | p. 50 |
| <b>T5 MOTORS - 230V / 50Hz - with screws, rigid screwdriver and 2.5 meter length cable</b> |  |             |       |
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| 2000268  | T5 10Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000295  | T5 15Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000322  | T5 20Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000348  | T5 25Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000371  | T5 30Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000392  | T5 35Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000412  | T5 40Nm/12rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000432  | T5 50Nm/12rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 1           | p. 52 |
| 2000237  | T5 08Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2000263  | T5 10Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2000290  | T5 15Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2000317  | T5 20Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2000343  | T5 25Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2000366  | T5 30Nm/17rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2000407  | T5 40Nm/12rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2000428  | T5 50Nm/12rpm-230/50 C2.5 WHITE INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |

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| <b>T5 MOTORS- 230V / 50Hz - without pin, with screws, rigid screwdriver and 2.5 meter length cable</b> |  |             |       |
| 2004891  | T5 08Nm/17rpm 230/50 WITHOUT PIN x1                            | 1           | p. 52 |
| 2004892  | T5 10Nm/17rpm 230/50 WITHOUT PIN x1                            | 1           | p. 52 |
| 2004893  | T5 15Nm/17rpm 230/50 WITHOUT PIN x1                            | 1           | p. 52 |
| 2001368  | T5 08Nm/17rpm 230/50 WITHOUT PIN x10                           | 10          | p. 52 |
| 2001369  | T5 10Nm/17rpm 230/50 WITHOUT PIN x10                           | 10          | p. 52 |
| 2001370  | T5 15Nm/17rpm 230/50 WITHOUT PIN x10                           | 10          | p. 52 |
| 2006127  | T5 08Nm/17rpm 230/50 WITHOUT PIN x100                          | 100         | p. 52 |
| 2006298  | T5 06Nm/12rpm WITHOUT PIN 230/50 x1 C2.5 WHITE                 | 1           | p. 52 |
| 2006299  | T5 10Nm/12rpm WITHOUT PIN 230/50 x1 C2.5 WHITE                 | 1           | p. 52 |
| 2006300  | T5 15Nm/12rpm WITHOUT PIN 230/50 x1 C2.5 WHITE                 | 1           | p. 52 |
| 2006295  | T5 06Nm/12rpm WITHOUT PIN 230/50 x10 C2.5 WHITE                | 10          | p. 52 |
| 2006296  | T5 10Nm/12rpm WITHOUT PIN 230/50 x10 C2.5 WHITE                | 10          | p. 52 |
| 2006297  | T5 15Nm/12rpm WITHOUT PIN 230/50 x10 C2.5 WHITE                | 10          | p. 52 |
| <b>T5 MOTORS - 230V / 50Hz - with screws, supple screwdriver and 2.5 meter length cable</b>            |  |             |       |
| 2005927  | T5 08Nm/17rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005929  | T5 10Nm/17rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005931  | T5 15Nm/17rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005933  | T5 20Nm/17rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005935  | T5 25Nm/17rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005937  | T5 30Nm/17rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005938  | T5 35Nm/17rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005939  | T5 40Nm/12rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| 2005940  | T5 50Nm/12rpm-230/50 C2.5 WHITE SFT-INTERNATIONAL SHEET+SCREEN | 10          | p. 52 |
| <b>T5 MOTORS - 230V / 50Hz - without screw and screwdriver, with 2.5 meter length cable</b>            |  |             |       |
| 2005941  | T5 08Nm/17rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005943  | T5 10Nm/17rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005944  | T5 15Nm/17rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005946  | T5 20Nm/17rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005947  | T5 25Nm/17rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005948  | T5 30Nm/17rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005949  | T5 35Nm/17rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005950  | T5 40Nm/12rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005951  | T5 50Nm/12rpm-230/50 C2.5 WHITE - WITHOUT TOOL - SHEET         | 10          | p. 52 |
| 2005889  | T5 08Nm/17rpm 230/50 C2.5 WHITE x100                           | 100         | p. 52 |
| 2005890  | T5 10Nm/17rpm 230/50 C2.5 WHITE x100                           | 100         | p. 52 |
| 2005891  | T5 15Nm/17rpm 230/50 C2.5 WHITE x100                           | 100         | p. 52 |
| 2007035  | T5 20Nm/17rpm 230/50 C2.5 WHITE x100                           | 100         | p. 52 |
| <b>T5 MOTORS - 120V / 60Hz - with screws, rigid screwdriver and 2.5 meter length cable</b>             |  |             |       |
| 2000646  | T5 15Nm/18rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| 2000647  | T5 25Nm/18rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| 2000648  | T5 35Nm/18rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| 2000649  | T5 10Nm/12rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| 2000650  | T5 20Nm/12rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| 2000651  | T5 30Nm/12rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| 2000652  | T5 40Nm/12rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| 2000653  | T5 50Nm/12rpm-120/60 x1 C2.5 WHITE                             | 1           | p. 52 |
| <b>DMI 5 MOTORS - 230V / 50Hz - without screw, with rigid screwdriver and 2.5 meter length cable</b>   |  |             |       |
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| 2000717  | DMI5 10Nm/17rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| 2000723  | DMI5 15Nm/17rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| 2000730  | DMI5 20Nm/17rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| 2000737  | DMI5 25Nm/17rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| 2000743  | DMI5 30Nm/17rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| 2000750  | DMI5 35Nm/17rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| 2000756  | DMI5 40Nm/12rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| 2000763  | DMI5 50Nm/12rpm-230/50 X1 C2.5 WHITE - INTERNATIONAL SHEET     | 1           | p. 54 |
| <b>DMI 5 MOTORS - 120V / 60Hz - without screw, with rigid screwdriver and 2.5 meter length cable</b>   |  |             |       |
| 2000769  | DMI5 15Nm/18rpm-120/60 X1 C2.5 WHITE                           | 1           | p. 54 |
| 2000770  | DMI5 25Nm/18rpm-120/60 X1 C2.5 WHITE                           | 1           | p. 54 |
| 2000771  | DMI5 35Nm/18rpm-120/60 X1 C2.5 WHITE                           | 1           | p. 54 |
| 2000772  | DMI5 10Nm/12rpm-120/60 X1 C2.5 WHITE                           | 1           | p. 54 |
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# CONTROL AND ACCESSORY

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| 2008188   | TRANSMITTER HZ TIMER EASY 1C WHITE                  | 1                     | 104       |
| 2008189   | TRANSMITTER HZ TIMER EASY 1C GREY                   | 1                     | 104       |
| 2008191   | MICRO-RECEIVER HZ ROLLER SHUTTER                    | 1                     | 110       |
| 2008192   | MICRO-RECEIVER HZ ROLLER SHUTTER X10                | 10                    | 110       |
| 2008193   | MICRO-RECEIVER HZ LIGHTING                          | 10                    | 111       |
| 2008194   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C WHITE         | 1                     | 98        |
| 2008195   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C WHITE/10      | 10                    | 98        |
| 2008196   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C WHITE/100     | 100                   | 98        |
| 2008197   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C GREY          | 1                     | 98        |
| 2008198   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C DARK GREY     | 1                     | 98        |
| 2008199   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C MOKA          | 1                     | 98        |
| 2008200   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C BLACK CURRANT | 1                     | 98        |
| 2008201   | WALL MOUNTED HZ TRANSMITTER COLOR+ 1C BLUE          | 1                     | 98        |
| 2008202   | TRANSMITTER HZ MOBILE COLOR+ 1C WHITE               | 1                     | 100       |
| 2008203   | TRANSMITTER HZ MOBILE COLOR+ 1C GREY                | 1                     | 100       |
| 2008204   | TRANSMITTER HZ MOBILE COLOR+ 1C DARK GREY           | 1                     | 100       |
| 2008205   | TRANSMITTER HZ MOBILE COLOR+ 1C MOKA                | 1                     | 100       |
| 2008206   | TRANSMITTER HZ MOBILE COLOR+ 1C BLACK CURRANT       | 1                     | 100       |
| 2008207   | TRANSMITTER HZ MOBILE COLOR+ 1C BLUE                | 1                     | 100       |
| 2008208   | TRANSMITTER HZ MOBILE COLOR+ 5C WHITE               | 1                     | 101       |
| 2008209   | TRANSMITTER HZ MOBILE COLOR+ 5C GREY                | 1                     | 101       |
| 2008210   | TRANSMITTER HZ MOBILE COLOR+ 5C DARK GREY           | 1                     | 101       |
| 2008211   | TRANSMITTER HZ MOBILE COLOR+ 5C MOKA                | 1                     | 101       |
| 2008212   | TRANSMITTER HZ MOBILE COLOR+ 5C BLACK CURRANT       | 1                     | 101       |
| 2008213   | TRANSMITTER HZ MOBILE COLOR+ 5C BLUE                | 1                     | 101       |
| 9000848   | HANDLE H7 EYE DMI L325                              | 1                     | 90        |
| 9000985   | ADAPTOR KIT NT6 TUBE 101.6X1.6 STOP WHEEL           | 1                     | 66        |
| 9000986   | ADAPTOR KIT NT6 TUBE 101.6X3.6 STOP WHEEL           | 1                     | 66        |
| 9000987   | SETTING 20 SCREWDRIVER T5 MDD BAG                   | 1                     | 77        |
| 9001108   | BRACKET BUTTERFLY T5 125-205                        | 10                    | 68 - 72   |
| 9001165   | NT5 CROWN FOR ZF54 TUBE                             | 1                     | 64        |
| 9001481   | ADAPTOR KIT NT3,5 OCTO 40 IMBAC                     | 1                     | 64        |
| 9001496   | ADAPTOR KIT NT3,5 OCTO 40                           | 1                     | 64        |
| 9001498   | ADAPTOR KIT NT3,5 TUBE ZF 45                        | 1                     | 64        |
| 9001527   | FIXATION KIT NT3,5 SQUARE OF 10                     | 1                     | 67        |
| 9001529   | NT3.5/T5 ADAPTORS                                   | 1                     | 64        |
| 9001735   | BRACKET T5 ZF-TUNNEL                                | 1                     | 73 - 75   |
| 9011000   | ADAPTOR NT5 ZF54                                    | 1                     | 64        |
| 9011187   | SURFACE MOUNTING ->TIMER                            | 1                     | 121       |
| 9011313   | ADJUSTABLE LINK 3 PARTS TO SCREW OCTO 60            | 20                    | 84        |
| 9011314   | ADJUSTABLE LINK 4 PARTS TO SCREW OCTO 60            | 20                    | 84        |
| 9011606   | BRACKET T5:COFFRELITE                               | 1                     | 74        |
| 9011670   | CONNECTION KIT HZ02 X10                             | 10                    | 109       |
| 9011781   | SETTING 20 SCREWDRIVER T5 BAG ASA                   | 1                     | 77        |
| 9011792   | NT5 KIT CROWN FOR TUBE ZF80                         | 1                     | 65        |
| 9011860   | KIT FOR SLIDE VALVE ZF                              | 1                     | 71        |
| 9012467   | BRACKET T5 2X F6 CENTER DISTANCE 44MM OBLONG X1     | 1                     | 71        |
| 9012888   | SAFETY CELL BARRIER                                 | 1                     | 138       |
| 9012948   | FLASCHING ORANGE LIGHT                              | 1                     | 139       |
| 9012978   | BRACKET T5 UNIVERSAL /20                            | 20                    | 67 - 71   |
| 9013073   | CLIP FOR SLIDE VALVE ZF                             | 1                     | 71        |
| 9013091   | LT50 DEPRAT 53 ADAPTOR SET                          | 1                     | 64        |
| 9013217   | BRACKET T5, 100X100MM                               | 1                     | 72        |
| 9013406   | ALUMINIUM RAIL SD (10X2.5M)                         | 10 bars of 2.5 meters | 137       |
| 9013761   | BRACKET T5 UNIVERSAL /1                             | 1                     | 67 - 71   |
| 9013770   | LINK 2 PARTS TO SCREW OCTO 40-60 /20                | 20                    | 84        |
| 9014025   | LINK 2 PARTS TO SCREW OCTO 40-60 /100               | 100                   | 84        |
| 9014026   | ADJUSTABLE LINK 3 PARTS TO SCREW OCTO 40 /100       | 100                   | 84        |
| 9014027   | ADJUSTABLE LINK 3 PARTS TO SCREW OCTO 60 /100       | 100                   | 84        |
| 9014028   | ADJUSTABLE LINK 4 PARTS TO SCREW OCTO 60 /100       | 100                   | 84        |
| 9014519   | PLATE MOSAIC 45 WHITE                               | 1                     | 115 - 119 |
| 9014520   | SURFACE MOUNTING BOX                                | 1                     | 115 - 119 |
| 9014731   | SOLAR KIT + 1 BATTERY 1P                            | 1                     | 25        |

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| 9014732   | SOLAR KIT + 1 BATTERY 2P                         | 1                   | 25        |
| 9014734   | BATTERY FOR SOLAR KIT                            | 1                   | 25        |
| 9014736   | SOLAR PANEL (NEW MODEL)                          | 1                   | 25        |
| 9014738   | SUPPLY OF REPAIR                                 | 1                   | 25        |
| 9014879   | KIT APEM RUSSEN SURFACE MOUNTING                 | 1                   | 117 - 127 |
| 9014880   | KIT PLATE APEM MOSAIC                            | 1                   | 117 - 127 |
| 9014881   | KIT APEM MOSAIC SURFACE MOUNTING                 | 1                   | 117 - 127 |
| 9015170   | FIXED ORANGE LIGHT                               | 1                   | 139       |
| 9015196   | SURFACE MOUNTING BOX EFAPEL X10                  | 10                  | 114 - 120 |
| 9015562   | KIT 10 CLIPS FOR SOLAR PANEL AUTOSUN             | 10                  | 25        |
| 9015860   | BRACKET BUTTERFLY T5 125-205 X100                | 100                 | 68 - 72   |
| 9015893   | CONNECTION KIT LP OP PGE                         | 1                   | 137       |
| 9015894   | RUBBER PROFILE LP OP 14X36 /50M                  | 50 meters           | 137       |
| 9015946   | CONNECTION KIT LP OP ACCES                       | 1                   | 137       |
| 9016065   | BRACKET T5 ZF ALURENO X1                         | 1                   | 73        |
| 9016067   | BRACKET T5 ZF ALURENO /10                        | 10                  | 73        |
| 9016077   | BRACKET T5 C16                                   | 1                   | 69        |
| 9016084   | WHEEL T3.5 OCTO40 FOR INTERNAL CLAMPING          | 1                   | 64        |
| 9016085   | CROWN T3.5 FOR OCTO40 WITH INTERNAL CLAMPING     | 1                   | 64        |
| 9016332   | SHORT EYE OUTLET                                 | 1                   | 90        |
| 9016635   | ADAPT.KIT T3.5 FOR OCTO40 WITH INTERNAL CLAMPING | 1                   | 64        |
| 9016703   | RUBBER PROFILE CIAL IN 40M                       | 40 meters           | 137       |
| 9016875   | ALUMINIUM RAIL OP PGE 10X3M                      | 10 bars of 3 meters | 137       |
| 9016981   | BRACKET INTERFACE FOR T3.5-T5                    | 1                   | 67        |
| 9017188   | BRACKET FOR C16                                  | 1                   | 69 - 159  |
| 9017284   | BRACKET 40X85 90° UNIV JOINT WHITE               | 1                   | 152       |
| 9017285   | BRACKET 40X85 90° UNIV JOINT GREY                | 1                   | 152       |
| 9017286   | BRACKET 60X70 60° UNIV JOINT GREY                | 1                   | 152       |
| 9017287   | BRACKET 60X70 60° UNIV JOINT WHITE               | 1                   | 152       |
| 9017304   | ACCESSORIES SPRING OCT60                         | 1                   | 159       |
| 9017534   | BRACKET T5 ZF:TUNNEL EDILCASS X1                 | 1                   | 74        |
| 9017536   | ADAPT BRACKET T3.5/5 GUIDE 125/165               | 1                   | 73        |
| 9017537   | ADAPT BRACKET T3.5/5 GUIDE 180/205               | 1                   | 73        |
| 9017661   | AUTOSUN BATTERY BRACKET                          | 10                  | 25        |
| 9017805   | FRAME ND2012 WHITE                               | 1                   | 98        |
| 9017806   | FRAME ND2012 GREY                                | 1                   | 98        |
| 9017807   | FRAME ND2012 DARK GREY                           | 1                   | 98        |
| 9017808   | FRAME ND2012 MOKA                                | 1                   | 98        |
| 9017809   | FRAME ND2012 BURGUNDY                            | 1                   | 98        |
| 9017810   | FRAME ND2012 BLUE                                | 1                   | 98        |
| 9017950   | WALL BRACKET FOR DMI                             | 1                   | 76        |
| 9128890   | NT6 CROWN FOR TUBE ZF80                          | 1                   | 66        |
| 9132145   | NT3,5 CROWN TUBE OCTO 40X0.6                     | 1                   | 64        |
| 9137029   | NT3,5 BRACKET                                    | 1                   | 67 - 69   |
| 9137159   | SWITCH PROTECTION PLATE                          | 10                  | 117 - 127 |
| 9147327   | NT3,5 CROWN OCTAGONAL                            | 1                   | 64        |
| 9147545   | WHEEL NT3,5 OCTAGONAL 37 SP                      | 1                   | 64        |
| 9154122   | SL7070 SURFACE MOUNTED BOX KIT                   | 1                   | 103       |
| 9232000   | SQUARE TUBE 16X16X1(CUTTED)                      | 6 meters            | 91        |
| 9252525   | BRACKET T5:PLASTIC SUPPORT 80X80                 | 1                   | 72        |
| 9257403   | BRACKET T5:72X30 2M6 CENTER DISTANCE 44          | 1                   | 70        |
| 9257410   | DIFFERENTIAL NT5 (MAX.40NM)                      | 1                   | 91        |
| 9410300   | NT5 CROWN FOR TUBE D.62 F2000                    | 1                   | 65        |
| 9410302   | NT5 WHEEL FOR TUBE D.62 F2000                    | 1                   | 65        |
| 9410356   | NT5 WHEEL TUBE CENTERED ZF64                     | 1                   | 65        |
| 9410357   | NT5 CROWN TUBE CENTERED ZF64                     | 1                   | 65        |
| 9410423   | WHEEL NT5 TUBE ZF54 RANGE 50 50/12               | 1                   | 64        |
| 9410699   | DMI FIXING PINS                                  | 1                   | 76        |
| 9410730   | SHORT PLUG END BEARING DIFF LT50                 | 1                   | 91        |
| 9410731   | ADJUSTABLE PLUG END BEARING DIFF LT50            | 1                   | 91        |
| 9410790   | CSI-DMI COUNTERSUNK FIXING PIN                   | 1                   | 76        |
| 9420301   | NT5/6 WHEEL TUBE F5039                           | 1                   | 65 - 66   |
| 9420302   | NT5/6 WHEEL TUBE ZF80                            | 1                   | 65 - 66   |
| 9420304   | NT5/6 WHEEL TUBE 102X2                           | 1                   | 65 - 66   |
| 9420309   | NT6 WHEEL TUBE 101.6X3.6                         | 1                   | 66        |
| 9420341   | NT6 CROWN TUBE F5039                             | 1                   | 65 - 66   |
| 9420370   | CROWN NT6-TUBE 102x2                             | 1                   | 66        |
| 9420371   | CROWN FOR NT6 TUB 101.6X3,6 4 INCH               | 1                   | 66        |
| 9420654   | BRACKET FOR ROLLER SHUTTER                       | 1                   | 76        |
| 9500344   | NT3,5 WHEEL TUBE OCTO 40 X 0,6                   | 1                   | 64        |
| 9500444   | NT3,5 WHEEL FOR TUBE ZF45                        | 1                   | 64        |

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| 9500455   | NT3,5 CROWN FOR TUBE ZF45                          | 1           | 64        |
| 9500815   | SQUARE STUD BRACKET                                | 1           | 68        |
| 9510101   | SUPPORT HOLE C10                                   | 1           | 67 - 69   |
| 9520038   | BRACKET T5:FOR 4015 2 HOLES CENTER DISTANCE 50MM   | 1           | 70        |
| 9520040   | BRACKET T5:2 HOLES M6 CENTER DISTANCE 48MM         | 1           | 70        |
| 9520048   | BRACKET T5:FOR SIDEFRAME DEPRAT                    | 1           | 70        |
| 9520049   | BRACKET T5:FOR RRS                                 | 1           | 72        |
| 9520054   | BRACKET T5:NEUKIRCHEN 2 HOLES CENTER DISTANCE 35   | 1           | 70        |
| 9520062   | BRACKET T5:HASSINGER 2 HOLES CENTER DISTANCE 46MM  | 1           | 70        |
| 9520063   | BRACKET T5:MERKEL ROCHE                            | 1           | 71        |
| 9520064   | BRACKET T5:FOR PLATE ZF                            | 1           | 70        |
| 9520076   | BRACKET T5:SIMU 2 HOLES 6,5MM CENTER DISTANCE 30   | 1           | 69        |
| 9520098   | BRACKET T5:FOR SIDEFRAME EUREKO                    | 10          | 72        |
| 9520104   | BRACKET T5:2 HOLES CENTER DISTANCE 48MM            | 1           | 70        |
| 9520187   | BRACKET T5:PLATE 100X100 IMBAC                     | 1           | 72        |
| 9520202   | BRACKET T5:TUNNEL BOX T5/T6                        | 10          | 73 - 75   |
| 9521014   | ADAPTOR NT5 F2000 OCT60                            | 1           | 65        |
| 9521015   | ADAPTOR NT5 F5039 D.85                             | 1           | 65        |
| 9521021   | ADAPTOR NT5 SIMU OCT70                             | 1           | 65        |
| 9521022   | ADAPTOR NT5 IMBAC OCT70 1.2                        | 1           | 65        |
| 9521031   | ADAPTOR NT5 OCT.60                                 | 1           | 65        |
| 9521032   | ADAPTOR NT5 ZURFLUH 64                             | 1           | 65        |
| 9521033   | ADAPTOR NT5 ZURFLUH 80                             | 1           | 65        |
| 9521039   | ADAPTOR NT5 OCT60 RIGH-HIGH TORQUE                 | 1           | 65        |
| 9521040   | ADAPTOR NT5 OCT60 LEFT-HIGH TORQUE                 | 1           | 65        |
| 9521046   | CROWN NT5 SIMU OCT70                               | 1           | 65        |
| 9521049   | WHEEL ABS NT5 OCT60 RIGHT HIGH TORQUE              | 1           | 65        |
| 9521050   | WHEEL ABS NT5 OCT60 LEFT HIGH TORQUE               | 1           | 65        |
| 9521054   | ADAPTOR NT5 OCT.50 SELVE                           | 1           | 64        |
| 9521055   | CROWN NT5 TUBE D102X2                              | 1           | 65        |
| 9521056   | ADAPTOR NT5 TUBE D102X2                            | 1           | 65        |
| 9521057   | ADAPTOR NT5 TUBE D102X2 with drive hub stop        | 1           | 65        |
| 9530017   | BRACKET T6 CENTER DISTANCE 46MM                    | 1           | 74        |
| 9530018   | BRACKET T6 PLATE 120MM FIX:4X85MM/DISTA CENTER 100 | 1           | 75        |
| 9530040   | BRACKET T6 2 HOLES F6 CENTER DISTANCE 65MM         | 1           | 75        |
| 9530042   | BRACKET T6 FIX:2XM6 DISTANCE CENTER 48MM           | 1           | 75        |
| 9530043   | BRACKET T6 2 HOLES 6,2MM DISTANCE CENTER 44MM      | 1           | 74        |
| 9530051   | BRACKET T6 FIX:4X6,5 DISTANCE CENTER 30 AND 56,6MM | 1           | 74        |
| 9530104   | BRACKET T6 2 HOLES F6,5 CENTER DISTANCE 48MM       | 1           | 74        |
| 9530110   | ADAPTOR KIT NT6F5039                               | 1           | 66        |
| 9530114   | ADAPTOR KIT NT6TUBE ZF 80                          | 1           | 66        |
| 9530117   | ADAPTOR KIT NT6SIMU OCTO 70X1,2                    | 1           | 66        |
| 9530124   | ADAPTOR KIT NT6TUBE D 101,6X3,6                    | 1           | 66        |
| 9530131   | ADAPTOR KIT NT6OCTO 102 ALULUX                     | 1           | 66        |
| 9600973   | BOX PM2  | 60          | 117 - 127 |
| 9604500   | FLUSH MOUNTED BOX FOR 600965                       | 10          | 125       |
| 9604512   | CLAWED BOX FOR SWITCH FIXATION BY SCREWS           | 10          | 125       |
| 9606133   | NT6 WHEEL TUBE OCTO 70X1.2                         | 1           | 65 - 66   |
| 9630320   | FIXED ORANGE LIGHT 230V 25W                        | 1           | 139       |
| 9660195   | SURFACE BOX WHITE ESP                              | 1           | 115 - 118 |
| 9685136   | LONG EYE OUTLET                                    | 1           | 90        |
| 9685142   | INVISIBLE BOX OUTLET                               | 1           | 90        |
| 9701240   | NT5 BRACKET, 2 HOLES M6 ENTRAXE 48                 | 1           | 67 - 69   |
| 9705340   | NT6 CROWN FOR TUBE OCTO 70X1.2                     | 1           | 66        |
| 9705344   | NT5 WHEEL TUBE OCTO 50                             | 1           | 64        |
| 9705345   | NT5 CROWN FOR TUBE SELVE OCTO 50                   | 1           | 64        |
| 9706034   | CSI BRACKET 100 X 100                              | 1           | 76        |
| 9707025   | NT5 CROWN TUBE OCTO 60                             | 1           | 65        |
| 9707026   | NT5 CROWN TUBE D 63 X 1.5                          | 1           | 65        |
| 9751001   | NT5 WHEEL FOR TUBE OCTO 60 SELVE, DOHNER, F5860    | 1           | 65        |
| 9761002   | NT5 AND NT6 WHEEL FOR TUBE 70                      | 1           | 65        |
| 9761013   | NT6 WHEEL FOR TUBE OCTO 102 X 2,5                  | 1           | 66        |
| 9762013   | NT6 CROWN FOR TUBE OCTO 102 X 2,5                  | 1           | 66        |
| 9840219   | VAS COLLAR OCTO 40                                 | 50          | 86        |
| 9840225   | VAS 3 LINKS SLAT 14MM                              | 25          | 86        |
| 9840226   | VAS 4 LINKS SLAT 14MM                              | 25          | 86        |
| 9840227   | VAS COLLAR OCTO 60                                 | 50          | 86        |
| 9840233   | VAS 3 LINKS SLATE 9MM                              | 25          | 86        |
| 9840234   | VAS 4 LINKS SLAT 9MM                               | 25          | 86        |
| 9850312   | T5 PIN RING (BAG 200)                              | 1           | 77        |
| 9850313   | PIN RING TYPE 6 (BAG 200)                          | 1           | 77        |

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| 9910013   | PLATE LO NT5 WITH HOLE         | 1           | 69   |
| 9910014   | PLATE LO NT5 WITH HOLE         | 1           | 69   |
| 9910062   | NT6 STOP WHEEL                 | 1           | 66   |
| 5005970A  | BAG OF SCREW NT3.5 (x200)      | 200         | 76   |
| 5010255A  | PLAST. SCREW T45 FZ5X16 (x200) | 200         | 76   |
| 5050240A  | SOLAR PANEL CONNECT            | 1           | 25   |

