

## Competitive advantages

5 years  
Warranty

### 6 Simplicity

- Simple end-limit system, very fast thanks to memory rings, and common to the whole range (easy training)
- Motor delivered ready to be installed (power cable already wired)
- No need of special set up tools
- Compact product for easy integration even in narrow shutters

## Centreo



### 1 Safety

- Electrical security > no access to the live parts of the motor
- Effective integrated brake, capable of holding 1.2 times the nominal torque > insure an immediate stop of the closure

### 2 Standards conformity

- Guaranteed answer to standards requirements
- "EC" certificates available

### 5 Wide range

- 4 torques: 75-100-140-200Nm
- 3 crowns: Ø200 - Ø220 - Ø240
- For tube of: Ø76 - Ø60 + Ø34-42-48 with adaptors
- Versions 230V-50Hz, 220V-60Hz, 120V-60Hz

### 4 Reliability

- Nominal torques guaranteed from 207V (minimal power supply) and till thermal cut-out
- Qualified up to 10.000 cycles on metal curtains (instead of 7.500 today)
- Tested individually in production
- Effortless manual operation thanks to reduction gear declutching

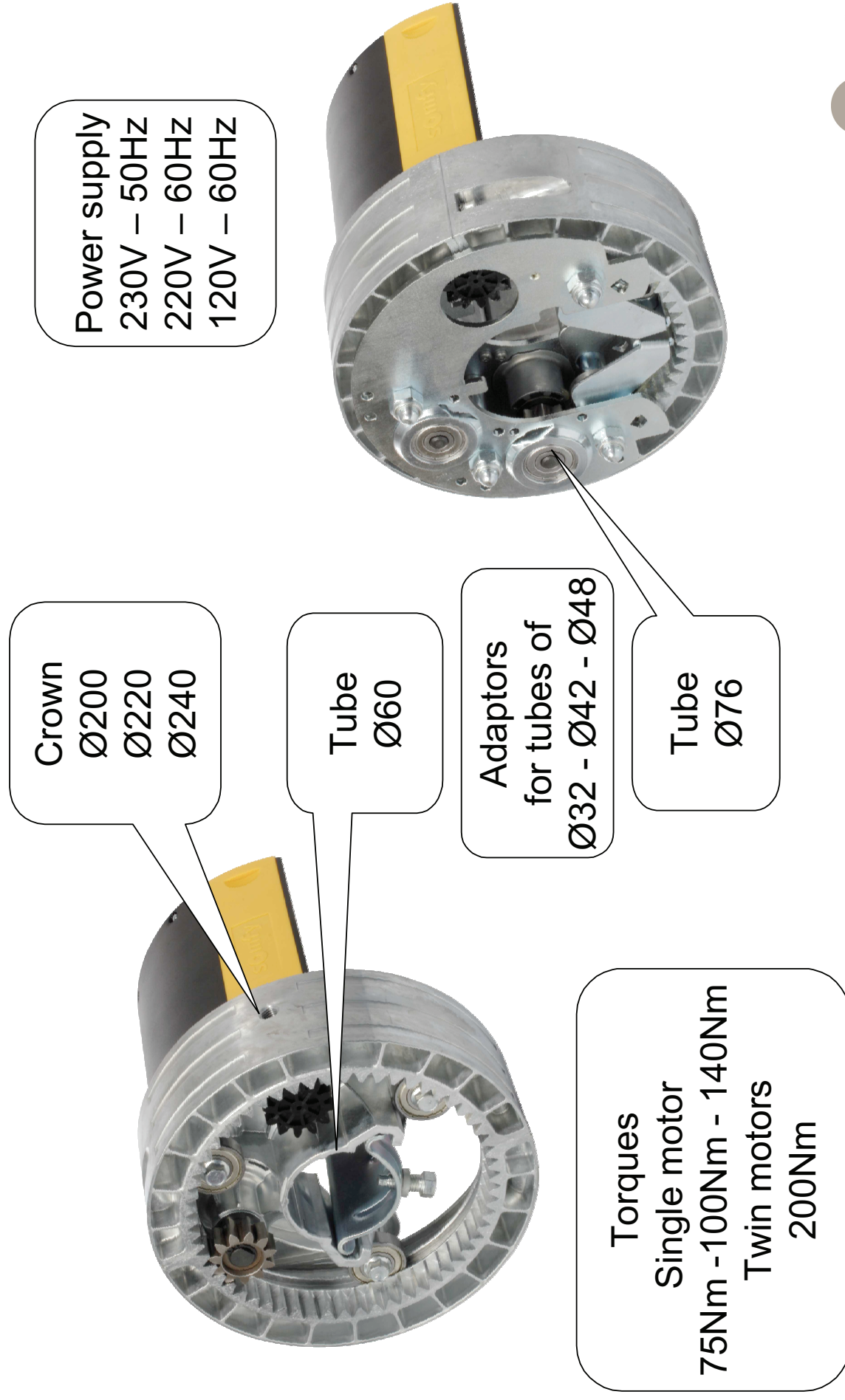
### 3 Sturdiness

- Fully protected end-limit system
- Fast and strong fixing system (patented)
- zamak crowns (real Ø240mm crown)



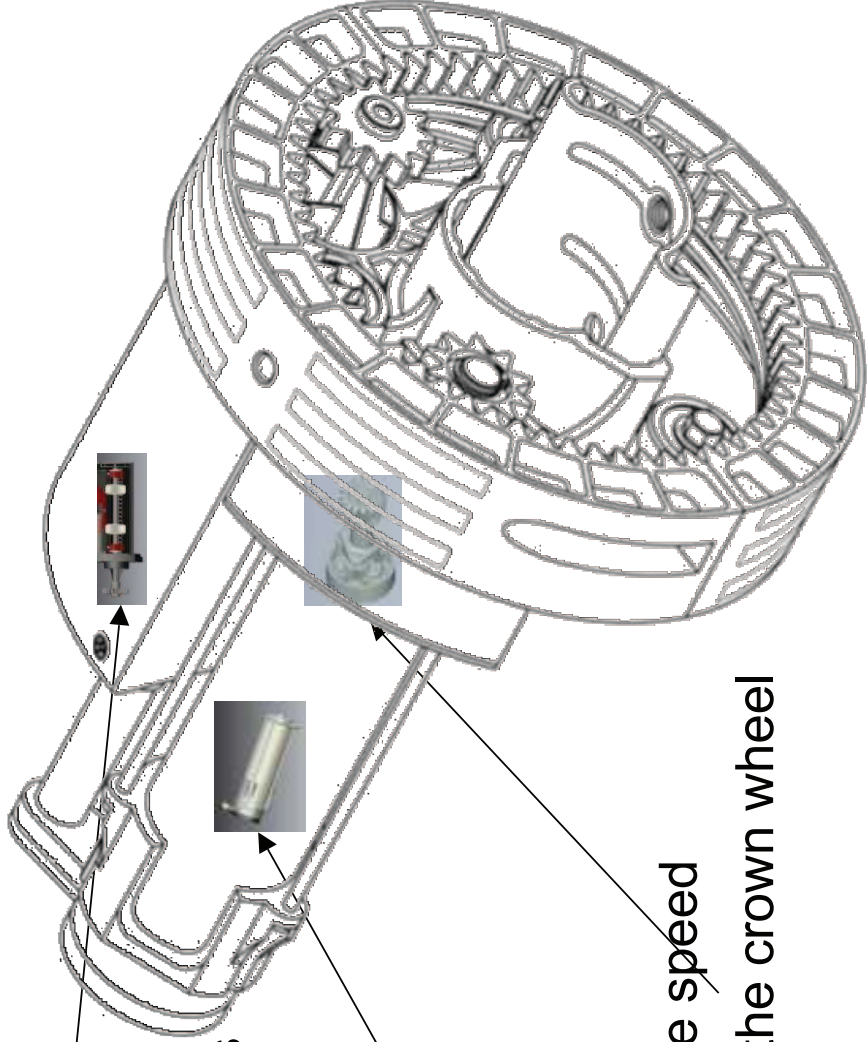
somfy  
Door & Gate Activity

## Scope of the offer



Like any Somfy motors, Centreo consists of three parts:

- The limit switch unit which allows the metal shutter/grille to be stopped in the top and bottom positions
- The rotor/stator unit, which provides the necessary power
- The reduction gear, which adapts the speed and provides the torque transmitted to the crown wheel

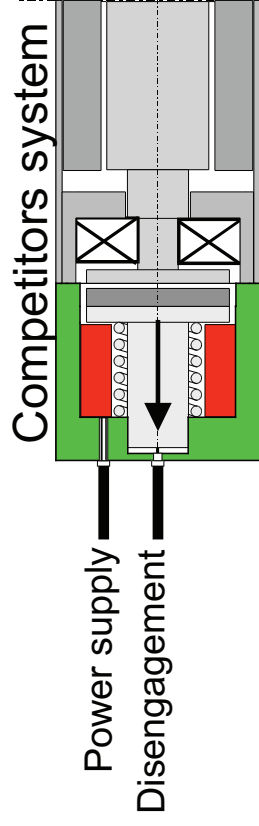


### Centreo declutching system:

The system, well-tested on the current range, has been retained, because it is simple and effective. Declutching takes place directly at the crown wheel of the first reduction gear train, which allows easy manual operation of the metal shutter, in the event of a power failure.

Note: The length of the cable clutch is now standard 6m

All our competitors use an electrobrake disengaged by a cable placed behind the motor and acting on the rotor. This means that manual operation requires considerable effort as the whole transmission has to be moved.



### Centreo limit switch unit:

- Simple, proven screw/nut system
- 12 turns capacity
- Limit switch system totally protected inside its casing, with:
  - 16A microswitches (even more resistant than the 10A currently in use), actuated directly by the toothed wheels, and lodged at the bottom of the casing
  - Combs also located in the bottom of the casing
- Quick, simple adjustment thanks to the new, easily extracted memory rings

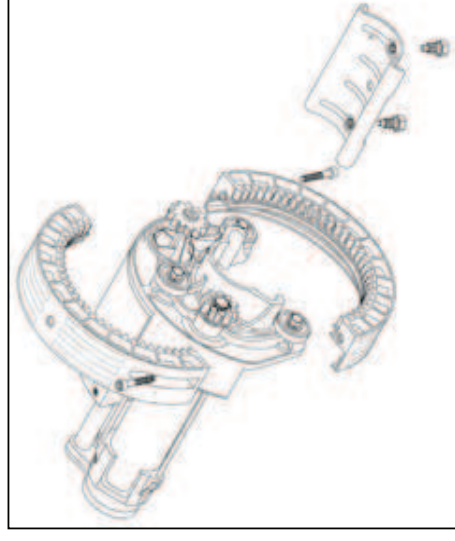


### Centreo fixing systems:

The range includes two fixing systems:

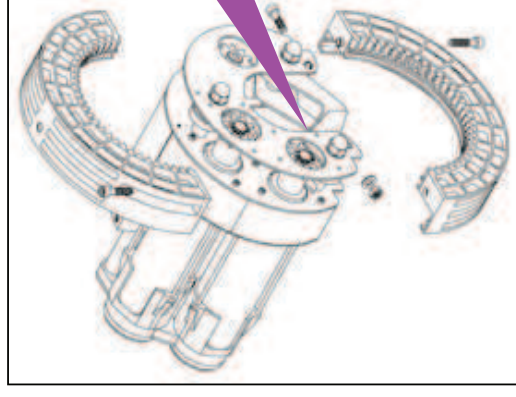
- Fixing by steel flanges, used with the Zamak frame on the single-motor 75/100/140Nm, Ø60 versions

(see assembly details in the technical instructions)



- Fixing by clamping jaws, used with the sheet metal frame on the single-motor 100/140Nm, Ø76 versions and bi-motor 200Nm, Ø60 and Ø76 versions

(see assembly details in the technical instructions)



Patented  
system

## Technical description

**Adapter rings enabling Centreo to be fitted onto Ø34, 42 and 48 mm tubes.**

- The first half-ring clips onto the motor frame
- the second half-ring clips onto the flange
- the assembly is then fixed onto the tube by 2 test screws provided in the kit



Ring



## Choosing the motor power

A closure fitted with a metal shutter/grille with a compensation system must be able to be manually operated effortlessly over the entire distance traveled.

The motor will be chosen according to:

- the weight of the perfectly balanced metal shutter/grille
- the central tube diameter (Ø60 or Ø76)
- the diameter of the coil springs (Ø200, Ø220 or Ø240)

Motor chart:

The weights in the table below are given for guidance. These weights may vary according to the conditions of installation (friction, height/width of the metal shutter etc...) and also according to the variations in the supply voltage

|           | Crown<br>Ø 200 | Crown<br>Ø 220 | Crown<br>Ø 240 |
|-----------|----------------|----------------|----------------|
| Centreo 1 | 160 kg         | 150 kg         | -              |
| Centreo 2 | 220 kg         | 200 kg         | 180 kg         |
| Centreo 3 | -              | 255 kg         | 230 kg         |
| Centreo 4 | -              | 350 kg         | 330 kg         |

SPECIFIC RANGE 220V 60HZ

|           | Crown<br>Ø 200 | Crown<br>Ø 220 | Crown<br>Ø 240 |
|-----------|----------------|----------------|----------------|
| Centreo 2 | 200 kg         | 180 kg         | -              |
| Centreo 4 | -              | 300 kg         | 280 kg         |

## Technical characteristics

### 230V – 50Hz Range

|                  | Torque<br>(Nm) | Power<br>(W) | Current<br>(A) | Speed<br>(rpm) | Ø Crown<br>(mm)      | Ø Tube<br>(mm) | End limit<br>capacity | Brake and<br>Declutching | Length (mm) |     |
|------------------|----------------|--------------|----------------|----------------|----------------------|----------------|-----------------------|--------------------------|-------------|-----|
|                  |                |              |                |                |                      |                |                       |                          | Ø60         | Ø76 |
| <b>Centreo 1</b> | 75             | 345          | 1.5            | 10             | 200 - 220            | 60             | 12 turns              | With and<br>without      | 342         | -   |
| <b>Centreo 2</b> | 100            | 390          | 1.7            | 10             | 200 – 220<br>and 240 | 60-76          | 12 turns              | With and<br>without      | 357         | 342 |
| <b>Centreo 3</b> | 140            | 500          | 2.2            | 10             | 220 - 240            | 60-76          | 12 turns              | With and<br>without      | 372         | 357 |
| <b>Centreo 4</b> | 200            | 800          | 3.5            | 10             | 220 - 240            | 60-76          | 12 turns              | With                     | 342         | 342 |

### 220V – 60Hz Range

|                  | Torque<br>(Nm) | Power<br>(W) | Current<br>(A) | Speed<br>(rpm) | Ø Crown<br>(mm) | Ø Tube<br>(mm) | End limit<br>capacity | Brake and<br>Declutching | Length (mm) |     |
|------------------|----------------|--------------|----------------|----------------|-----------------|----------------|-----------------------|--------------------------|-------------|-----|
|                  |                |              |                |                |                 |                |                       |                          | Ø60         | Ø76 |
| <b>Centreo 2</b> | 90             | 375          | 1.8            | 12             | 220             | 60             | 12 turns              | With                     | 357         | -   |
| <b>Centreo 4</b> | 170            | 700          | 3.5            | 12             | 220 - 240       | 60 - 76        | 12 turns              | With                     | 342         | 342 |

Centreo 1, 2, 3 = single Centreo 4 = twin

## Centreo range for Ø60 tube

| Reference      | Description                  | Power supply | Torque (Nm) | tube Ø and crown Ø |          | With brake and declutching |  zamak frame |  Steel frame |
|----------------|------------------------------|--------------|-------------|--------------------|----------|----------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                |                              |              |             | Ø60 Ø200           | Ø60 Ø220 |                            |                                                                                               |                                                                                              |
| <b>1207028</b> | CENTREO 1 - 60/200 230/50 AF | 230V – 50Hz  | 75          | ✓                  |          | YES                        | ✓                                                                                             |                                                                                              |
| <b>1207030</b> | CENTREO 1 - 60/220 230/50 AF | 230V – 50Hz  | 75          |                    | ✓        | YES                        | ✓                                                                                             |                                                                                              |
| <b>1207032</b> | CENTREO 2 - 60/200 230/50 AF | 230V – 50Hz  | 100         | ✓                  |          | YES                        | ✓                                                                                             |                                                                                              |
| <b>1207034</b> | CENTREO 2 - 60/220 230/50 AF | 230V – 50Hz  | 100         |                    | ✓        | YES                        | ✓                                                                                             |                                                                                              |
| <b>1207040</b> | CENTREO 3 - 60/220 230/50 AF | 230V – 50Hz  | 140         |                    | ✓        | YES                        | ✓                                                                                             |                                                                                              |
| <b>1207043</b> | CENTREO 4 - 60/220 230/50 AF | 230V – 50Hz  | 200         |                    | ✓        | YES                        |                                                                                               | ✓                                                                                            |
|                |                              |              |             |                    |          | YES                        |                                                                                               |                                                                                              |
| <b>1207038</b> | CENTREO 2 - 60/220 220/60 AF | 220V – 60Hz  | 90          |                    | ✓        | YES                        | ✓                                                                                             |                                                                                              |
| <b>1207044</b> | CENTREO 4 - 60/220 220/60 AF | 220V – 60Hz  | 170         |                    | ✓        | YES                        |                                                                                               | ✓                                                                                            |

### Explanation about the description

|         | Torque | Tube Ø | Crown Ø | Power supply | Frequency | With brake and declutching |
|---------|--------|--------|---------|--------------|-----------|----------------------------|
| Centreo | 1      | 60     | 200     | 230V         | 50Hz      | AF                         |

## Centreo range without brake for Ø60 and Ø76 tube

**Warning:** EC compliant products, but not compliant with article 5.1.1.4 of EN 12453 standard (concerning the maximum distance to stop the curtain after manual control device is released)

### Extract from NF EN 12453

#### 5.1.1.4 Hold-to-run-control

**« the door leaf shall stop when the manual control device is released. The overrun distance of the door leaf, after the control has been released, shall be not > 50 mm when the opening gap is ≤ 500 mm and not > 100 mm when the opening gap is > 500 mm. »**

| Reference | Description                  | Power supply | Torque (Nm) | tube Ø and crown Ø |          |          | With brake and declutching |  zamak frame |  Steel frame |
|-----------|------------------------------|--------------|-------------|--------------------|----------|----------|----------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|           |                              |              |             | Ø60 Ø200           | Ø60 Ø220 | Ø76 Ø220 |                            |                                                                                               |                                                                                              |
| 1207029   | CENTREO 1 - 60/200 230/50 SF | 230V – 50Hz  | 75          | ✓                  |          |          | NO                         | ✓                                                                                             |                                                                                              |
| 1207031   | CENTREO 1 - 60/220 230/50 SF | 230V – 50Hz  | 75          |                    | ✓        |          | NO                         | ✓                                                                                             |                                                                                              |
| 1207033   | CENTREO 2 - 60/200 230/50 SF | 230V – 50Hz  | 100         | ✓                  |          |          | NO                         | ✓                                                                                             |                                                                                              |
| 1207035   | CENTREO 2 - 60/220 230/50 SF | 230V – 50Hz  | 100         |                    | ✓        |          | NO                         | ✓                                                                                             |                                                                                              |
| 1207041   | CENTREO 3 - 60/220 230/50 SF | 230V – 50Hz  | 140         |                    | ✓        |          | NO                         | ✓                                                                                             |                                                                                              |
|           |                              |              |             |                    |          |          |                            |                                                                                               |                                                                                              |
| 1207037   | CENTREO 2 - 76/220 230/50 SF | 230V – 50Hz  | 100         |                    |          | ✓        | NO                         |                                                                                               | ✓                                                                                            |

| Explanation about the description |   | Torque | Tube Ø | Crown Ø | Power supply | Frequency | Without brake and declutching |  |
|-----------------------------------|---|--------|--------|---------|--------------|-----------|-------------------------------|--|
|                                   |   |        |        |         |              |           | SF                            |  |
| Centreo                           | 2 |        | 60     | 220     | 230V         | 50Hz      |                               |  |

## Centreo range for Ø76 tube

| Reference      | Description                  | Power supply | Torque (Nm) | tube Ø and crown Ø |          | With brake and Declutching |  zamak frame |  Steel frame |
|----------------|------------------------------|--------------|-------------|--------------------|----------|----------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                |                              |              |             | Ø76 Ø220           | Ø76 Ø240 |                            |                                                                                               |                                                                                               |
| <b>1207036</b> | CENTREO 2 - 76/220 230/50 AF | 230V – 50Hz  | 100         | ✓                  |          | YES                        |                                                                                               | ✓                                                                                             |
| <b>1207042</b> | CENTREO 3 - 76/220 230/50 AF | 230V – 50Hz  | 140         | ✓                  |          | YES                        |                                                                                               | ✓                                                                                             |
| <b>1207048</b> | CENTREO 3 - 76/240 230/50 AF | 230V – 50Hz  | 140         |                    | ✓        | YES                        |                                                                                               | ✓                                                                                             |
| <b>1207045</b> | CENTREO 4 - 76/220 230/50 AF | 230V – 50Hz  | 200         | ✓                  |          | YES                        |                                                                                               | ✓                                                                                             |
| <b>1207046</b> | CENTREO 4 - 76/240 230/50 AF | 230V – 50Hz  | 200         |                    | ✓        | YES                        |                                                                                               | ✓                                                                                             |
|                |                              |              |             |                    |          |                            |                                                                                               |                                                                                               |
| <b>1207049</b> | CENTREO 2 - 76/220 220/60 AF | 220V – 60Hz  | 90          | ✓                  |          | YES                        |                                                                                               | ✓                                                                                             |
| <b>1207047</b> | CENTREO 4 - 76/240 220/60 AF | 220V – 60Hz  | 170         |                    | ✓        | YES                        |                                                                                               | ✓                                                                                             |

### Explanation about the description

|         | Torque | Tube Ø | Crown Ø | Power supply | Frequency | With brake and declutching |
|---------|--------|--------|---------|--------------|-----------|----------------------------|
| Centreo | 2      | 76     | 240     | 230V         | 50Hz      | AF                         |

## Accessory kits

- **Adapter kits:** these allow Centreo to be fitted on a mechanism with a Ø34, 42, or 48mm tube. These kits will be used only with Centreo 75 or 100 for a Ø60 tube.

|         |                        |                                                                                   |
|---------|------------------------|-----------------------------------------------------------------------------------|
| 9015363 | ADAPTER KIT MC Ø60/Ø34 |  |
| 9015364 | ADAPTER KIT MC Ø60/Ø42 |                                                                                   |
| 9015366 | ADAPTER KIT MC Ø60/Ø48 |                                                                                   |

- **Declutching kits:**

Each declutching kit consists of:

- a 6 m long cable, inside a sheath
- a handle supplied with its fitting accessories
- instructions in French/English as standard and in English and Arabic for Saudi Arabia products

NB: A declutching kit is supplied as standard with declutching Centreo version.

The references below are given for After Sales purposes.

|         |                                   |                                                                                     |
|---------|-----------------------------------|-------------------------------------------------------------------------------------|
| 9015367 | DECLUTCHING KIT MC 6M SOMFY       |  |
| 9015368 | DECLUTCHING KIT MC 6M GB/AR SOMFY |                                                                                     |

## Table of equivalence Centreo / Old range

| Reference<br>CENTREO | Description                  |     | Reference<br>old range | Description                    |
|----------------------|------------------------------|-----|------------------------|--------------------------------|
| 1207028              | CENTREO 1 - 60/200 230/50 AF | >>> | 1207001                | MC PRO75 60/200 AFAD FCM SFY   |
|                      |                              | >>> | 1207016                | MC PRO75 60/200 AFAD FCP SFY   |
|                      |                              | >>> | 1207014                | MC PRO075 60/200 AFAD FCM CORE |
| 1207029              | CENTREO 1 - 60/200 230/50 SF | >>> | 1207003                | MC PRO75 60/200 SFSD FCP SFY   |
| 1207030              | CENTREO 1 - 60/220 230/50 AF | >>> | 1207000                | MC PRO75 60/220 AFAD FCM SFY   |
| 1207031              | CENTREO 1 - 60/220 230/50 SF | >>> | 1207002                | MC PRO75 60/220 SFSD FCP FSF   |
|                      |                              |     | 1207022                | MC PRO70 60/220 AFAD SASO      |
|                      |                              |     |                        |                                |
| 1207032              | CENTREO 2 - 60/200 230/50 AF | >>> | 1207007                | MC PRO100 60/200 AFAD FCM SFY  |
|                      |                              |     | 1207015                | MC PRO100 60/200 AFAD FCM CORE |
| 1207033              | CENTREO 2 - 60/200 230/50 SF | >>> | 1207011                | MC PRO100 60/200 SFSD FCP SFY  |
| 1207034              | CENTREO 2 - 60/220 230/50 AF | >>> | 1207005                | MC PRO100 60/220 AFAD FCM SFY  |
|                      |                              | >>> | 1207006                | MC PRO100 60/220 AFAD FCP SFY  |
| 1207035              | CENTREO 2 - 60/220 230/50 SF | >>> | 1207010                | MC PRO100 60/220 SFSD FCP SFY  |
|                      |                              | >>> | 1207009                | MC PRO100 60/220 SFSD FCP R SY |
| 1207038              | CENTREO 2 - 60/220 220/60 AF | >>> | 1207023                | MC PRO100 60/220 AFAD SASO     |
| 1207036              | CENTREO 2 - 76/220 230/50 AF |     |                        |                                |
| 1207049              | CENTREO 2 - 76/220 220/60 AF |     |                        |                                |
| 1207037              | CENTREO 2 - 76/220 230/50 SF | >>> | 1208015                | MC 100NM D76/220MM SF SD       |

## Table of equivalence Centreo / Old range

| Reference<br>CENTREO | Description                  |     | Reference<br>old range | Description                    |
|----------------------|------------------------------|-----|------------------------|--------------------------------|
| 1207040              | CENTREO 3 - 60/220 230/50 AF | >>> | 1207012                | MC PRO140 60/220 AFAD FCM SFY  |
| 1207041              | CENTREO 3 - 60/220 230/50 SF | >>> | 1207027                | MC PRO 140 60/220 SFSD FCM SFY |
| 1207042              | CENTREO 3 - 76/220 230/50 AF | >>> | 1208013                | MC 140NM 76/220 MONO AFAD SFY  |
| 1207048              | CENTREO 3 - 76/240 230/50 AF |     |                        |                                |
|                      |                              |     |                        |                                |
| 1207043              | CENTREO 4 - 60/220 230/50 AF | >>> | 1208004                | MC 180NM 60/220 AFAD SOMFY     |
| 1207044              | CENTREO 4 - 60/220 220/60 AF |     |                        |                                |
| 1207045              | CENTREO 4 - 76/220 230/50 AF | >>> | 1208005                | MC 180NM 76/220 AFAD SOMFY     |
| 1207046              | CENTREO 4 - 76/240 230/50 AF |     |                        |                                |
| 1207047              | CENTREO 4 - 76/240 220/60 AF |     |                        |                                |

## "EC" Declaration of Conformity

Compliant with the provisions of the following European Directives:

- Low Voltage Directive 2006/95/EC of 12/12/2006
- Electromagnetic Compatibility Directive 2004/108/EC of 15/12/2004

Conform to the following standards:

- EN 60335-1: 2002 +  
A1:2004, A11:2004,  
A12:2006, A2:2006
- EN 60335-2-103: 2003
- EN 50366: 2003 +  
A1:2006
- EN 55014-1: 2006
- EN 55014-2: 1997 + A1:2001
- EN 61000-6-2: 2005
- EN 61000-6-3: 2007

TÜV Rheinland registration for Saudi Arabia for some references

## "EC" declaration of conformity, continued Some details...

- Low Voltage Directive (LV)
  - LV Directive 2006/95/EC repeals LV Directive 73/23/EC of 19/3/76 amended by Directive 93/68/EC of 22/7/93 (concerning CE marking).
- Electromagnetic Compatibility Directive (EMC)
  - EMC Directive 2004/108/EC repeals EMC Directive 89/336/EC of 3/5/89 amended by Directives 92/31/EC of 28/4/92 (modification of application dates), 93/68/EC of 22/7/93 (concerning CE marking), 91/263/EEC of 29/4/91 (modification of scope).
- Compliance with standards EN 60335-1, EN 60335-2-103 and EN 50366 enables the requirements of the LV Directive to be met.
  - Standards EN 60335-1 and EN 60335-2-103 concern the electrical safety of household and similar electrical appliances. Part 2-103 applies more particularly to folding doors, revolving doors, rolling doors, sectional overhead doors.
  - Standard EN 50366 concerns health protection, in particular against exposure to electromagnetic fields.
- Compliance with standards EN 55014-1, EN 55014-2, EN 61000-6-2 and EN 61000-6-3 enables the requirements of the EMC Directive to be met.
  - Standards EN 55014-1 and EN 61000-6-3 concern electromagnetic emissions from household electrical appliances.
  - Standard EN 55014-2 and EN 61000-6-2 concern immunity from electromagnetic disturbance from household electrical appliances.