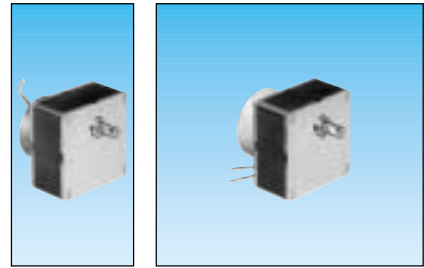


# Reversible synchronous geared motors with capacitor

- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards.



## Applications

- Valve actuation
- Blind, louvre and vane actuation
- Office equipment
- Boiler systems
- Amusement machines
- Vending machines
- Medical equipment
- Laboratory equipment
- Peristaltic pumps

## Types

### Voltages / Frequencies

|                           | 80 517 3 | 80 527 0 | 80 527 4 |
|---------------------------|----------|----------|----------|
| Base speed of motor (rpm) | 250      | 250      | 250      |
| Output speeds (rpm)       | 250, 375 | 250, 375 | 250, 375 |

| Part numbers | 80 517 3 | 80 527 0   | 80 527 4 |
|--------------|----------|------------|----------|
| 20           | ●        | 80 527 010 | ●        |
| 10           | ●        | 80 527 001 | ●        |
| 8            | ●        | ●          | ●        |
| 6            | ●        | 80 527 002 | ●        |
| 4            | ●        | 80 527 003 | ●        |
| 3            | ●        | ●          | ●        |
| 2            | ●        | 80 527 005 | ●        |
| 1            | ●        | 80 527 006 | ●        |
| 0.5          | ●        | ●          | ●        |
| 0.33         | ●        | 80 527 008 | ●        |
| 0.1          | ●        | ●          | ●        |

Standard gearbox shaft: see dimensions

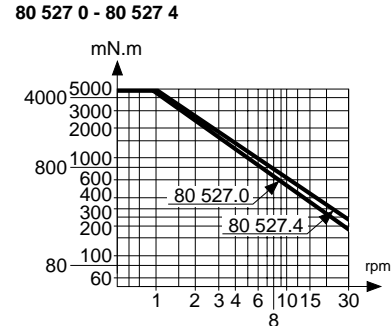
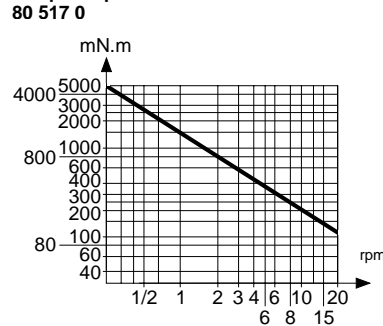
## General characteristics

| Motor  |     | 82 510 3 | 82 520 0 | 82 520 4 |
|--|-----|----------|----------|----------|
| Gearbox  |     | 81 037 0 | 81 037 0 | 81 037 0 |
| Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft | N.m | 5        | 5        | 5        |
| Axial load (static)  | daN | 2        | 2        | 2        |
| Radial load (static)   | daN | 3        | 3        | 3        |
| Absorbed power   | W   | 2.7      | 3.5      | 3.5      |
| Usable motor power   | W   | 0.31     | 0.98     | 1.12     |
| Maximum temperature rise   | °C  | 50       | 50       | 50       |
| Ambient temperature  | °C  | -10+70   | -10+70   | -10+70   |
| Weight   | g   | 410      | 530      | 530      |
| Lead length (approx.)  | mm  | 250      | 250      | 250      |
| Protection   |     | IP40     | IP40     | IP40     |

## Options : for made to order products non stocked

| Voltages / Frequencies                 | 24-115 V 60 Hz |   |   |
|--|----------------|---|---|
|  | 24 V 50 Hz     | ● | ● |
| Round shaft 79 306 478 (see page 2/29) |                | ● | ● |

## Torque / Speed curves



## Capacitors (supplied only on request)

| Voltages / Frequencies | μF         | V   | Part number | Voltages / Frequencies | μF         | V   | Part number |
|------------------------|------------|-----|-------------|------------------------|------------|-----|-------------|
| <b>Motor 82 510 0</b>  |            |     |             | <b>Motor 82 520 0</b>  |            |     |             |
| 230-240 V 50 Hz        | 0.33 ± 10% | 400 | 26 231 801  | 230-240 V 50 Hz        | 0.10 ± 10% | 700 | 26 231 941  |
| 115 V 50/60 Hz         | 0.27 ± 10% | 250 | 26 231 851  | 115 V 60 Hz            | 0.33 ± 10% | 400 | 26 231 801  |
| 24 V 50 Hz             | 8.2 ± 10%  | 63  | 26 231 711  | 24 V 50 Hz             | 8.2 ± 10%  | 63  | 26 231 711  |
| 24 V 60 Hz             | 6.8 ± 10%  | 63  | 26 231 148  |                        |            |     |             |

## Motor 82 520 4

|                 |            |     |            |
|-----------------|------------|-----|------------|
| 230-240 V 50 Hz | 0.12 ± 10% | 630 | 26 231 903 |
| 115 V 60 Hz     | 0.39 ± 10% | 630 | 26 231 924 |
| 24 V 50 Hz      | 15 ± 10%   | 63  | 26 231 729 |
| 24 V 60 Hz      | 12 ± 10%   | 63  | 26 231 727 |

## Made to order products, non stocked

### Motors :

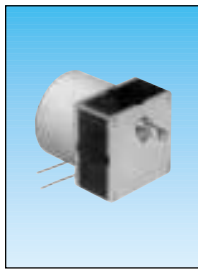
- other voltages/frequencies
- lead length
- boosted coils for performance +30% higher than standard (Please consult us)
- different lead exit angle relative to gearbox

### Gearboxes :

- other output speeds
- special shaft
- special lubrication
- ball bearing

## Other information

For basic principles, see page 2/6



80 547 0

230-240 V  
50 Hz  
250

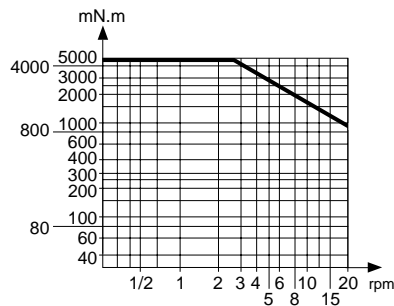
|            |  |
|------------|--|
| 80 547 024 |  |
| 80 547 015 |  |
| •          |  |
| 80 547 016 |  |
| 80 547 017 |  |
| 80 547 018 |  |
| 80 547 019 |  |
| 80 547 020 |  |
| 80 547 021 |  |
| •          |  |
| •          |  |

82 540 0  
81 037 0

5

2  
3  
7.2  
2.65  
55  
-10+70  
860  
250

80 547 0



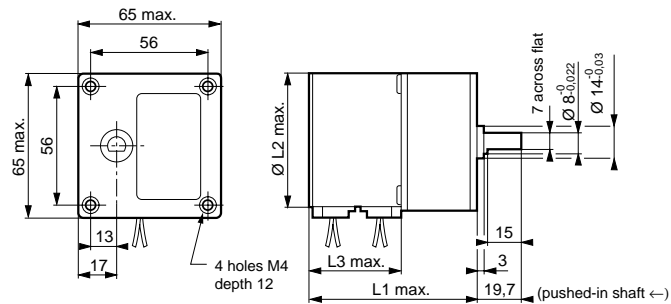
| Voltages / Frequencies | μF         | V   | Part number |
|------------------------|------------|-----|-------------|
| <b>Motor 82 540 0</b>  |            |     |             |
| 230-240 V 50 Hz        | 0.22 ± 10% | 630 | 26 231 908  |
| 115 V 60 Hz            | 0.56 ± 5%  | 400 | 26 231 922  |
| 24 V 50 Hz             | 15 ± 10%   | 63  | 26 231 729  |
| 24 V 60 Hz             | 15 ± 10%   | 63  | 26 231 729  |

1  
2  
3

4

**Dimensions**

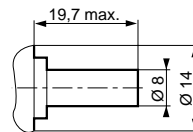
80 517 0 - 80 527 0 - 80 527 4 - 80 547 0



| Type     | L1 (mm) | Ø L2 (mm) | L3 (mm) |
|----------|---------|-----------|---------|
| 80 517 0 | 55.3    | 35.8      | 21.7    |
| 80 527 0 | 59.2    | 51.3      | 25.6    |
| 80 527 4 | 59.2    | 51.3      | 25.6    |
| 80 547 0 | 76.6    | 65.3      | 43      |

**Shaft 79 206 478**

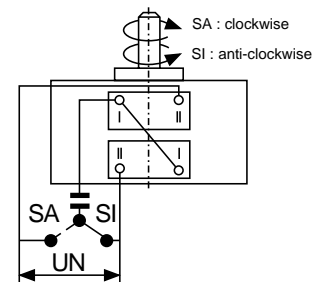
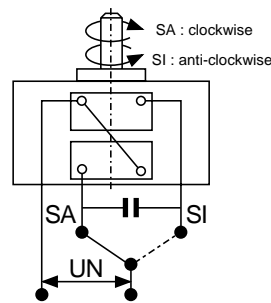
(pushed-in shaft ←)



**Connections**

In parallel  
Motors 82 510 0 - 82 520 0 - 82 520 4  
82 540 0

In series  
Motor 82 510 0 only  
230V - 240V 50 Hz version



2

**To order, specify :**

Standard products

3 Part number

Example : Synchronous geared motor 80 527 010

Standard products, non stocked

1 Type 2 Voltage / Frequency 3 Output speed 4 Option

Example : Reversible synchronous geared motor 80 517 0 - 230 V 50 Hz - 20 rpm