Reversible synchronous geared motors

➜ 5 Nm 2.7 and 3.5 Watts

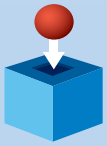
- **Mechanical strength : 5 Nm**
- **Constant speed, dependent on supply frequency**
- **Direction of rotation controlled by dephasing capacitor**
- **Permanent magnet rotor**
- **UL, CSA, VDE approved ; comply with IEC standards**



Specifications

			2.7 watts	3.5 Watts
Type			80 517 0	80 527 0
Voltage / Frequency			230-240 V / 50 Hz	230-240 V / 50 Hz
Base speed of motor (rpm)			250	250
Output speed (250 RPM)	**Output speed (375 RPM)**	**Ratios**		
20 rpm	30 rpm	12.5	●	80 527 010
10 rpm	15 rpm	25	●	80 527 001
8 rpm	12 rpm	31.25	●	●
6 rpm	9 rpm	41.66	●	80 527 002
4 rpm	10 rpm	62.5	●	80 527 003
3 rpm	4.5 rpm	83.33	●	●
2 rpm	3 rpm	125	●	80 527 005
1 rpm	1.5 rpm	250	●	80 527 006
0.5 rpm	0.75 rpm	500	●	●
0.33 rpm	0.5 rpm	750	●	80 527 008
0.1 rpm	0.15 rpm	2500	●	●
General characteristics				
Motor			82 510 0	82 520 0
Gearbox			81 037 0	81 037 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)			5	5
Axial load static (daN)			2	2
Radial load static (daN)			3	3
Absorbed power (W)			2.7	3.5
Motors output (W)			0.31	0.98
Maximum temperature rise (°C)			50	50
Ambient temperature (°C)			-10 → +70	-10 → +70
Weight (g)			410	530
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

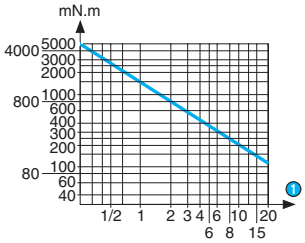
Product adaptations



- **Special supply voltages**
- **Special cable lengths**
- **Special connectors**
- **Special output shafts**
- **Special gearbox ratios**
- **Special gear wheel material**
- **Special output bearings**

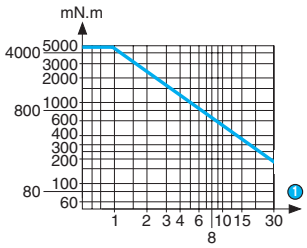
Curves

Torque/speed curves 80 517 0



1 RPM

Torque/speed curves 80 527 0



1 RPM

To order, see page 13

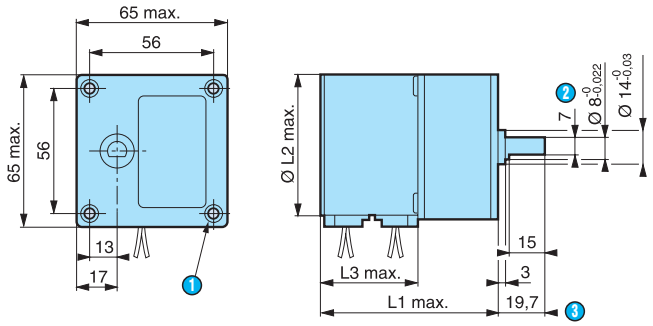
Crouzet

Accessories

Voltages/Frequencies	µF	V	Code
Capacitors for motor 82 510 0			
230-240 V - 50 Hz	0.33 ± 10 %	400	**26 231 801**
115 V - 50/60 Hz	0.27 ± 10 %	250	**26 231 851**
24 V - 50 Hz	8.2 ± 10 %	70	**26 231 711**
24 V - 60 Hz	6.8 ± 10 %	63	**26 231 708**
Capacitors for motor 82 520 0			
230-240 V - 50 Hz	0.10 ± 10 %	700	**26 231 941**
115 V - 60 Hz	0.33 ± 10 %	400	**26 231 801**
24 V - 50 Hz	8.2 ± 10 %	63	**26 231 711**

Dimensions

80 517 0 - 80 527 0

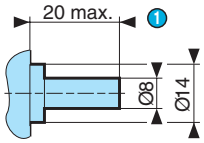


1. 4 holes M4 depth 12
2. 7 across flat
3. (pushed-in shaft ←)

80 517 0 L1 = 55.3 mm Ø L2 = 35.8 mm L3 = 21.7 mm
80 527 0 L1 = 59.2 mm Ø L2 = 51.3 mm L3 = 25.6 mm

Options

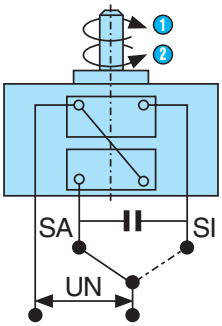
Shaft 79 206 478



1. (pushed-in shaft ←)

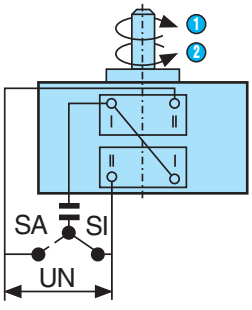
Connections

In parallel
Motors 82 510 0 - 82 520 0



1. SA : clockwise
2. SI : anti-clockwise

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



1. SA : clockwise
2. SI : anti-clockwise

Other information

The speed of a motor powered by a 60 Hz supply is 20 % higher than that of a motor powered by a 50 Hz supply.

Reversible synchronous geared motors

➜ 5 Nm 3.5 and 7.2 Watts

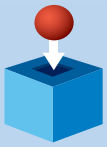
- **Mechanical strength : 5 Nm**
- **Constant speed, dependent on supply frequency**
- **Direction of rotation controlled by dephasing capacitor**
- **Permanent magnet rotor**
- **UL, CSA, VDE approved ; comply with IEC standards**



Specifications

			3.5 Watts	7.2 Watts
Type			80 527 4	80 547 0
Voltage / Frequency			230-240 V / 50 Hz	230-240 V / 50 Hz
Base speed of motor (rpm)			375	250
Output speed (250 RPM)	**Output speed (375 RPM)**	**Ratios**		
20 rpm	30 rpm	12.5	●	80 547 024
10 rpm	15 rpm	25	●	80 547 015
8 rpm	12 rpm	31.25	●	●
6 rpm	9 rpm	41.66	●	80 547 016
4 rpm	10 rpm	62.5	●	80 547 017
3 rpm	4.5 rpm	83.33	●	80 547 018
2 rpm	3 rpm	125	●	80 547 019
1 rpm	1.5 rpm	250	●	80 547 020
0.5 rpm	0.75 rpm	500	●	80 547 021
0.33 rpm	0.5 rpm	750	●	●
0.1 rpm	0.15 rpm	2500	●	●
General characteristics				
Motor			82 520 4	82 540 0
Gearbox			81 037 0	81 037 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)			5	5
Axial load static (daN)			2	2
Radial load static (daN)			3	3
Absorbed power (W)			3.5	7.2
Motors output (W)			1.12	2.65
Maximum temperature rise (°C)			50	55
Ambient temperature (°C)			-10 → +70	-10 → +70
Weight (g)			530	860
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

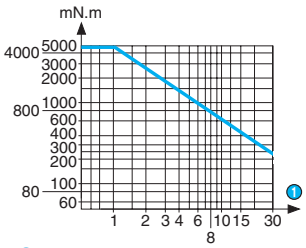
Product adaptations



- **Special supply voltages**
- **Special cable lengths**
- **Special connectors**
- **Special output shafts**
- **Special gearbox ratios**
- **Special gear wheel material**
- **Special output bearings**

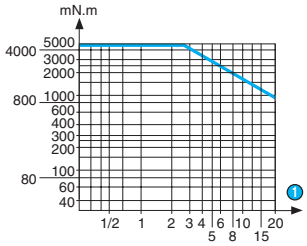
Curves

Torque/speed curves 80 527 4



1 RPM

Torque/speed curves 80 547 0



1 RPM

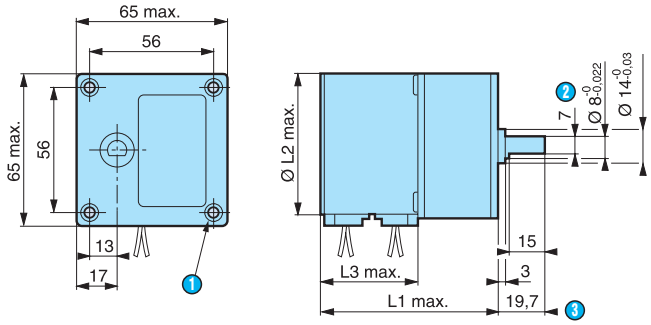
To order, see page 13

Accessories

Voltages/Frequencies	µF	V	Code
Capacitors for motors 82 520 4			
230/240 V - 50 Hz	0.12 ± 10 %	600	**26 231 903**
115 V - 60 Hz	0.39 ± 5 %	630	**26 231 924**
24 V - 50 Hz	15 ± 5 %	70	**26 231 728**
24 V - 60 Hz	12 ± 5 %	63	**26 231 145**
Capacitors for motor 82 540 0			
230-240 V 50 Hz	0.22 ± 5 %	630	**26 231 909**
115 V - 60 Hz	0.56 ± 5 %	400	**26 231 822**
24 V - 50 Hz	22 ± 10 %	63	**26 231 703**
24 V - 60 Hz	15 ± 5 %	70	**26 231 728**

Dimensions

80 527 4 - 80 547 0

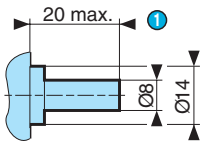


1. 4 holes M4 depth 12
2. 7 acroos flat
3. (pushed-in shaft ←)

80 527 4 L1 = 59.2 mm Ø L2 = 51.3 mm L3 = 25.6 mm
80 547 0 L1 = 76.6 mm Ø L2 = 65.3 mm L3 = 43 mm

Options

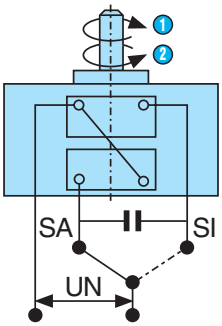
Shaft 79 206 478



1. (pushed-in ←)

Connections

In parallel
Motors 82 520 4 - 82 540 0



1. SA : clockwise
2. SI : anti-clockwise

Other information

The speed of a motor powered by a 60 Hz supply is 20 % higher than that of a motor powered by a 50 Hz supply.