Reversible synchronous geared motors

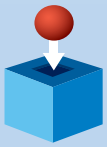
➜ 0.5 Nm 2.7 Watts

- **Mechanical strength : 0.5 Nm**
- **Constant speed, dependent on supply frequency**
- **Wide range of speeds available**
- **Direction of rotation controlled by dephasing capacitor**
- **Permanent magnet rotor**
- **UL, CSA, VDE approved, comply with IEC standards.**

Specifications

			2.7 Watts	2.7 Watts
Type			82 514 0	82 514 5
Standard motor speed (rpm)			250	500
Voltage / Frequency			230-240 V - 50 Hz	230-240 V - 50/60 Hz
Output speed (250 RPM)	**Output speed (500 RPM)**	**Ratios**		
25.00 rpm	50.00 rpm	10	●	●
20.00 rpm	40.00 rpm	25/2	●	●
12.50 rpm	25.00 rpm	20	●	●
10.00 rpm	20.00 rpm	25	●	●
5.00 rpm	10.00 rpm	50	●	●
4.00 rpm	8.00 rpm	125/2	●	●
2.50 rpm	5.00 rpm	100	●	●
2.00 rpm	4.00 rpm	125	●	●
1.25 rpm	2.50 rpm	200	●	●
1.00 rpm	2.00 rpm	250	●	●
0.50 rpm	1.00 rpm	500	●	●
General characteristics				
Motor			82 510 0	82 510 5
Gearbox			81 021 0	81 021 0
Base speed of motor (rpm)			250	500
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)			0.5	0.5
Axial load static (daN)			1	1
Radial load static (daN)			8	8
Absorbed power (W)			2.7	2.7
Motor output (W)			0.31	0.52
Maximum temperature rise (°C)			50	60
Ambient temperature (°C)			-5 → +70	-5 → +60
Weight (g)			140	140
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

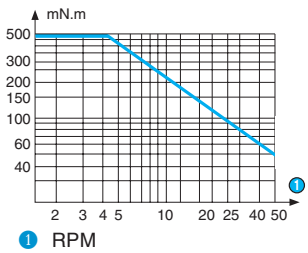
Product adaptations



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

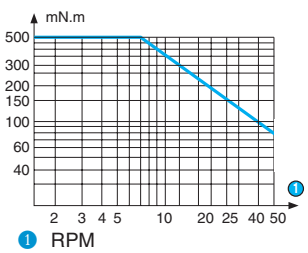
Curves

Graph of torque versus speed 82 514 0



1 RPM

Graph of torque versus speed 82 514 5



1 RPM

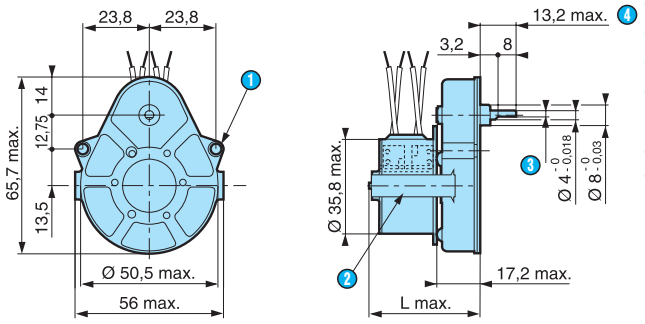
To order, see page 13

Accessories

Voltages/Frequencies	µF	V	Code
Capacitors 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 motor 82 510 5			
230-240 V 50/60 Hz	0.39 ± 10 %	630	**21 231 924**
115 V 50/60 Hz	0.39 ± 10 %	630	**26 231 924**
24 V 50/60 Hz	8.2 ± 10 %	70	**26 231 711**

Dimensions

82 514 0 - 82 514 5

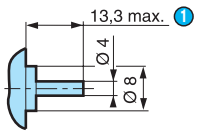


1. 2 fixing holes Ø 3.2
2. Fixing clip
3. 3.5 across flat
4. pushed-in shaft

82 514 0 L = 40.5 mm
82 514 5 L = 42.8 mm

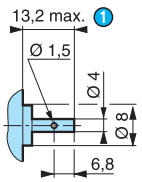
Options

Shaft 79 200 967



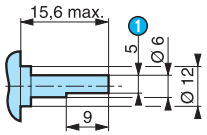
1. (pushed-in shaft ←)

Shaft 79 200 779



1. (pushed-in shaft ←)

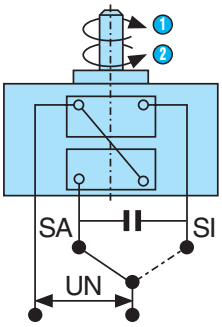
Shaft 70 999 421 SP1295-10



1. 5 across flat

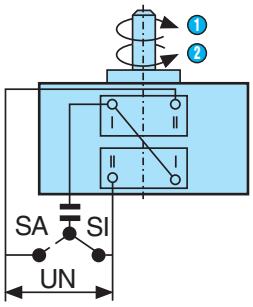
Connections

In parallel
Motors 82 510 0 - 82 510 5



1. SA : Clockwise
2. SI : Anti-clockwise

In series
Motors 82 510 0 and 82 510 5
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

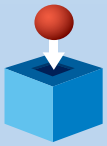
➜ 0.5 Nm 3.5 Watts

- **Mechanical strength : 0.5 Nm**
- **Constant speed, dependent on supply frequency**
- **Wide range of speeds available**
- **Direction of rotation controlled by dephasing capacitor**
- **Permanent magnet rotor**
- **UL, CSA, VDE approved, comply with IEC standards**

Specifications

			3.5 Watts	3.5 Watts
Type			82 524 0	82 524 4
Base speed of motor (rpm)			250	375
Voltage / Frequency			230-240 V - 50 Hz	230-240 V - 50 Hz
Output speed (250 RPM)	**Output speed (375 RPM)**	**Ratios (i)**		
25.00 rpm	37.50 rpm	10	82 524 001	●
20.00 rpm	30.00 rpm	25/2	82 524 002	●
13.33 rpm	20.00 rpm	75/4		
12.50 rpm	18.75 rpm	20	82 524 003	●
10.00 rpm	15.00 rpm	25	82 524 004	●
5.00 rpm	7.50 rpm	50	82 524 008	●
4.00 rpm	6.00 rpm	125/2	82 524 010	●
2.50 rpm	3.75 rpm	100	●	●
2.00 rpm	3.00 rpm	125	●	●
1.00 rpm	1.50 rpm	250	82 524 016	●
0.33 rpm	0.50 rpm	750	●	●
General characteristics				
Motor			82 520 0	82 520 4
Gearbox			81 021 0	81 021 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)			0.5	0.5
Axial load static (daN)			1	1
Radial load static (daN)			8	8
Absorbed power (W)			3.5	3.5
Motor output (W)			0.98	1.12
Maximum temperature rise (°C)			50	50
Ambient temperature (°C)			-5 → +70	-5 → +70
Weight (g)			140	140
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

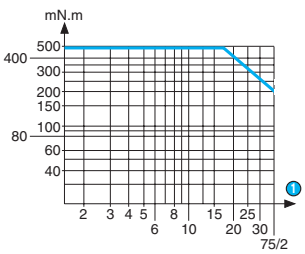
Product adaptations



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

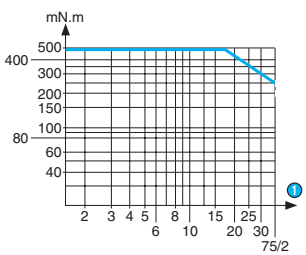
Curves

Torque/speed curves 82 524 0



1 RPM

Torque/speed curves 82 524 4



1 RPM

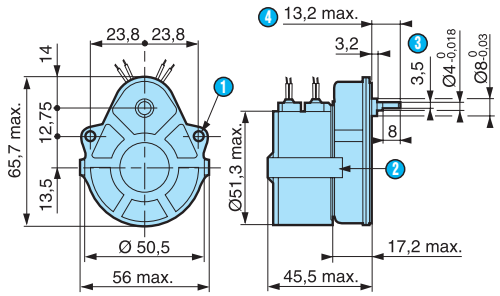
To order, see page 13

Accessories

Voltages/Frequencies	µF	V	Code
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 %	70	**26 231 711**
Capacitors motor 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**

Dimensions

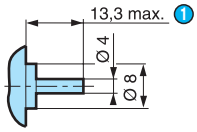
82 524 0 - 82 524 4



1 2 fixing holes Ø 3.2
2 Fixing clip
3 3.5 across flat
4 pushed-in shaft

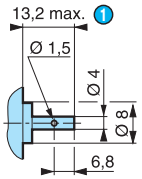
Options

Shaft 79 200 967



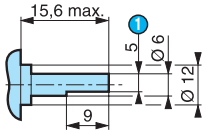
1 (pushed-in shaft ←)

Shaft 79 200 779



1 (pushed-in shaft ←)

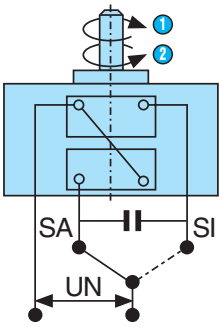
Shaft 70 999 421 SP1295-10



1 5 across flat

Connections

In parallel
Motors 82 520 0 - 82 520 4



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

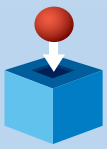
➜ 2 Nm 2.7 Watts

- **Mechanical strength : 2 Nm**
- **Constant speed, dependent on supply frequency**
- **WIde range of speeds available**
- **Direction of rotation controlled by dephasing capacitor**
- **Permanent magnet rotor**
- **UL, CSA, VDE approved, comply with IEC standards.**

Specifications

			2.7 Watts	2.7 Watts
Type			82 519 0	82 519 5
Voltage / Frequency			230-240 V - 50 Hz	230-240 V - 50/60 Hz
Base speed of motor (rpm)			250	500
Output speed (250 RPM)	**Output speed (500 RPM)**	**Ratios (i)**		
10,00 rpm	20,00 rpm	25	●	●
5,00 rpm	10,00 rpm	50	●	●
2,50 rpm	5,00 rpm	100	●	●
1,00 rpm	2,00 rpm	250	●	●
0,50 rpm	1,00 rpm	500	●	●
0,33 rpm	0,66 rpm	750	●	●
0,16 rpm	0,32 rpm	1500	●	●
5,00 rev/hr	10,00 rev/hr	3000	●	●
General characteristics				
Motor			82 510 0	82 510 5
Gearbox			81 033 0	81 033 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft Nm			2.0	2.0
Axial load static (daN)			1	1
Radial load static (daN)			10	10
Absorbed power (W)			2.7	2.7
Motor output (W)			0.31	0.52
Maximum temperature rise (°C)			50	60
Ambient temperature (°C)			-5 → +70	-5 → +60
Weight (g)			230	230
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

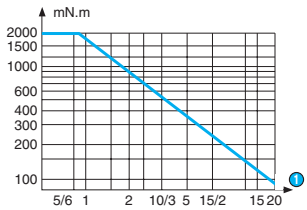
Product adaptations



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

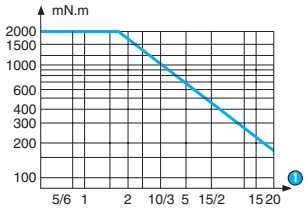
Curves

Graph of torque versus speed 82 519 0



1 RPM

Graph of torque versus speed 82 519 5



1 RPM

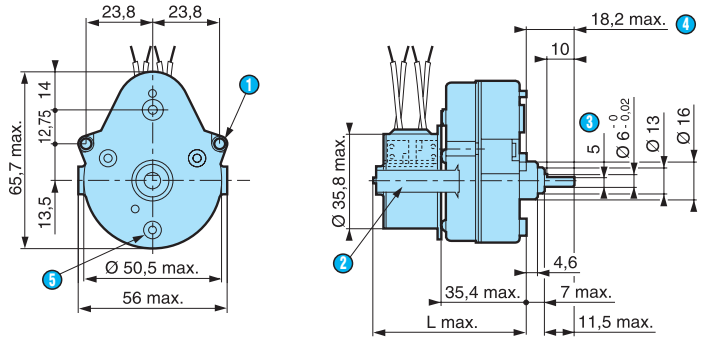
To order, see page 13

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 82 510 5			
230-240 V - 50/60 Hz	0.39 ± 10 %	630	**26 231 924**
115 V - 50/60 Hz	0.39 ± 10 %	630	**26 231 924**
24 V - 50/60 Hz	8.2 ± 10 %	70	**26 231 711**

Dimensions

82 519 0 - 82 519 5

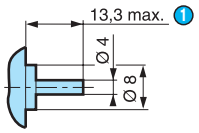


1. 2 fixing holes Ø 3.2
2. Fixing clip
3. 5 across flat
4. pushed-in shaft

82 519 0 L = 58.7 mm
82 519 5 L = 61 mm

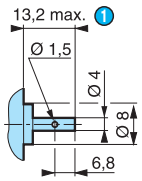
Options

Shaft 79 200 967



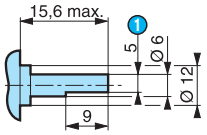
1. (pushed-in shaft ←)

Shaft 79 200 779



1. (pushed-in shaft ←)

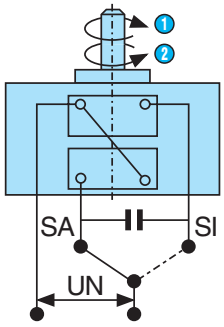
Shaft 79 999 421- SP1295-10



1. 5 across flat

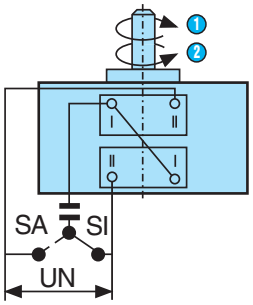
Connections

In parallel
Motors 82 510 0 - 82 510 5



1. SA : Clockwise
2. SI : Anti-clockwise

In series
Motors 82 510 0 and 82 510 5 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

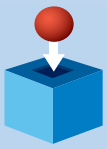
➜ 2 Nm 3.5 Watts

- **Machanical strength : 2 Nm**
- **Constant speed, dependent on supply frequency**
- **Wide range of speeds available**
- **Direction of rotation controlled by dephasing capacitor**
- **Permanent magnet rotor**
- **UL, CSA, VDE approved, comply with IEC standards**

Specifications

			3.5 Watts	3.5 watts
Type			82 529 0	82 529 4
Voltage / Frequency			230-240 V - 50 Hz	230-240 V - 50 Hz
Base speed of motor (rpm)			250	375
Output speed (250 RPM)	**Output speed (375 RPM)**	**Ratios (i)**		
10.00 rpm	15.00 rpm	25	●	●
5.00 rpm	7.50 rpm	50	●	●
4.00 rpm	6.00 rpm	125/2	-	●
2.50 rpm	3.75 rpm	100	●	●
1.00 rpm	1.50 rpm	250	●	●
0.50 rpm	0.75 rpm	500	●	●
0.33 rpm	0.50 rpm	750	●	●
5.00 rev/hr	7.50 rev/hr	3000	●	●
General characteristics				
Motor			82 520 0	82 520 4
Gearbox			81 033 0	81 033 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft Nm			2.0	2.0
Axial load static (daN)			1	1
Radial load static (daN)			10	10
Absorbed power (W)			3.5	3.5
Motor output (W)			0.98	1.12
Maximum temperature rise (°C)			50	50
Ambient temperature (°C)			-5 → +70	-5 → +70
Weight (g)			260	350
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

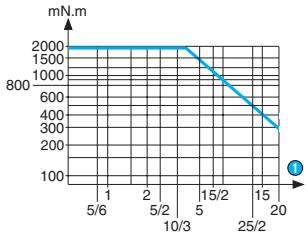
Product adaptations



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

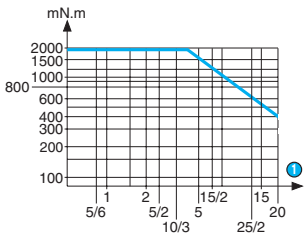
Curves

Torque/speed curves 82 529 0



1 RPM

Torque/speed curves 82 529 4



1 RPM

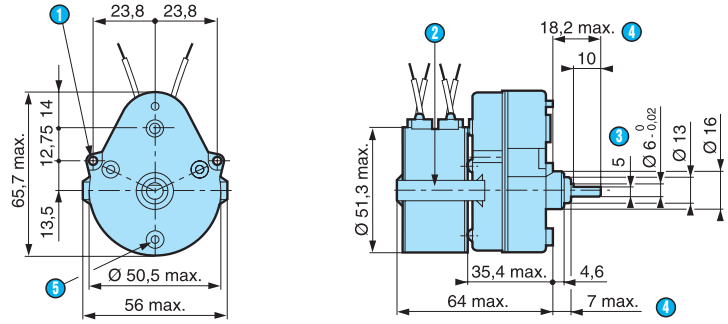
To order, see page 13

Accessories

Voltages/Frequencies	µF	V	Code
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 %	70	**26 231 711**
Capacitors for motor 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**

Dimensions

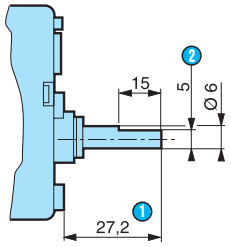
82 529 0 - 82 529 4



1. 2 fixing holes Ø 3.2
2. Fixing clip
3. 5 across flat
4. (pushed-in shaft ←)
5. 3 mounting bosses Ø 7.2 at 120° on radius= 19.5 - 3 holes M3 depth 4

Options

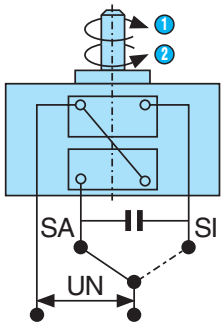
Shaft 79 202 573



1. (shaft pushed-in ←)
2. 5 across flat

Connections

In parallel Motors 82 520 0 - 82 520 4



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

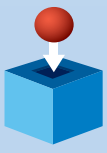
➜ 3 Nm 2.7 Watts

- **Mechanical strength : 3 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	2.7 Watts
Type			80 513 0	80 513 5
Voltages/Frequencies			230-240 V 50 Hz	230-240 V 50 Hz
Base speed of motor (rpm)			250	500
Output speed (250 RPM)	**Output speed (500 RPM)**	**Ratios (i)**		
12	24	20.83	●	●
6	12	41.66	●	●
3	6	83.33	●	●
1.667	3.333	150	●	●
1.333	2.667	187.5	●	●
0.833	1.667	300	●	●
0.667	1.333	375	●	●
0.417	0.833	600	●	●
0.333	0.667	750	●	●
0.208	0.417	1200	●	●
0.111	0.222	2250	●	●
0.104	0.208	2400	●	●
0.069	0.139	3600	●	●
General characteristics				
Motor			82 510 0	82 510 5
Gearbox			81 023 0	81 023 0
Maximum permitted continuous rated gearbox output torque (Nm)			3	3
Axial load static (daN)			2	2
Radial load static (daN)			3	3
Absorbed power (W)			2.7	2.7
Motor output (W)			0.31	0.52
Maximum temperature rise (°C)			55	65
Ambient temperature (°C)			-10 → +75	-5 → +65
Weight (g)			370	370
Wires length mm (approximately)			250	250
Protection rating			IP00	IP00

Product adaptations

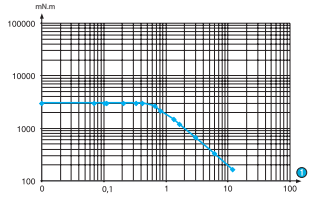


- **Special supply voltages**
- **Special cable lengths**
- **Special connectors**
- **Special output shafts**
- **Special gearbox ratios**
- **Special gear wheel material**
- **Special output bearings**
- **Special mounting plate**

To order, see page 13

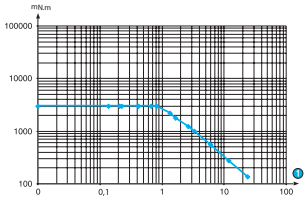
Curves

Torque / speed curves 80 513 0



1 RPM

Torque / speed curves 80 513 5



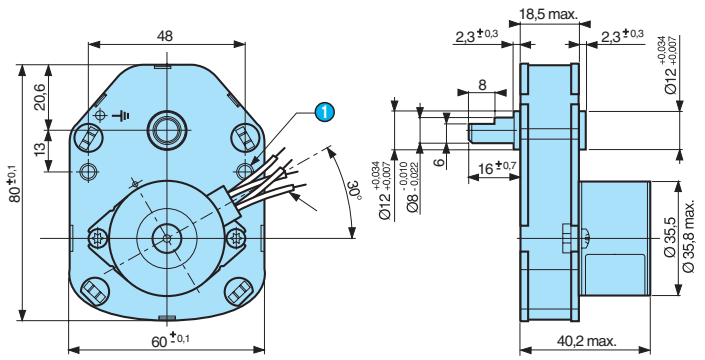
1 RPM

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 82 510 5			
230-240 V - 50/60 Hz	0.39 ± 10 %	630	**26 231 924**
115 V - 50/60 Hz	0.39 ± 10 %	630	**26 231 924**
24 V - 50/60 Hz	8.2 ± 10 %	70	**26 231 711**

Dimensions

80 513 0/5



1 2 fixing holes Ø 4.1 max.

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

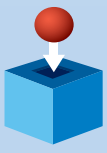
➜ 3 Nm 3.5 Watts

- **Mechanical strength : 3 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	3.5 Watts
Type		80 523 0	80 533 0
Voltages/Frequencies		230-240 V 50 Hz	230-240 V 50 Hz
Base speed of motor (rpm)		250	250
Output speed (250 RPM)	**Ratios (i)**		
12	20.83	●	●
6	41.66	●	●
3	83.33	●	●
1.667	150	●	●
1.333	187,5	●	●
0.833	300	●	●
0.667	375	●	●
0.417	600	●	●
0.333	750	●	●
0.208	1200	●	●
0.111	2250	●	●
0.104	2400	●	●
0.069	3600	●	●
General characteristics			
Motor		82 520 0	82 530 0
Gearbox		81 023 0	81 023 0
Maximum permitted continuous rated gearbox output torque (Nm)		3	3
Axial load static (daN)		2	2
Radial load static (daN)		3	3
Absorbed power (W)		3.5	3.6
Motor output (W)		0.98	1.37
Maximum temperature rise (°C)		55	45
Ambient temperature (°C)		-10 → +75	-10 → +85
Weight (g)		490	620
Wires length mm (approximately)		250	250
Protection rating		IP00	IP00

Product adaptations

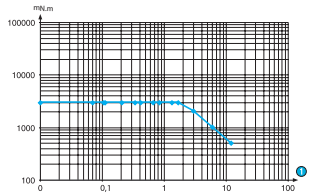


- **Special supply voltages**
- **Special cable lengths**
- **Special connectors**
- **Special output shafts**
- **Special gearbox ratios**
- **Special gear wheel material**
- **Special output bearings**
- **Special mounting plate**

To order, see page 13

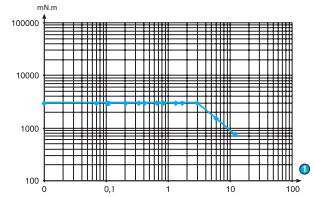
Curves

Torque / speed curves 80 523 0



1 RPM

Torque / speed curves 80 533 0



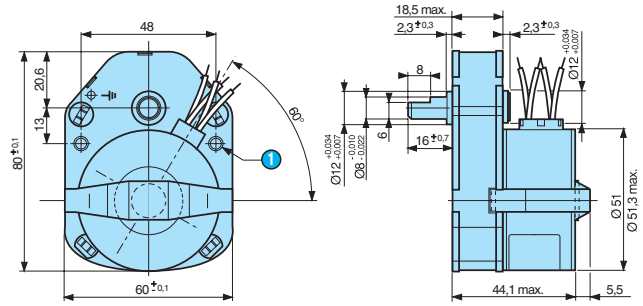
1 RPM

Accessories

Voltages/Frequencies	µF	V	Code
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 %	70	**26 231 711**
Capacitors for motor 82 530 0			
230-240 V - 50 Hz	0.10 ± 10 %	700	**26 231 941**
115 V - 50/60 Hz	0.39 ± 10 %	630	**26 231 924**
24 V - 50 Hz	10 ± 5 %	100	**26 231 720**
24 V - 60 Hz	6.8 ± 10 %	63	**26 231 708**

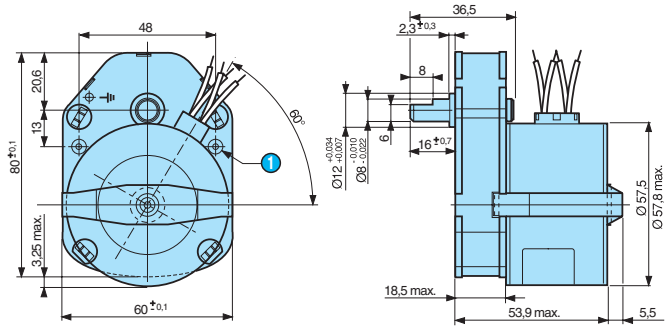
Dimensions

80 523 0



1 2 fixing holes Ø 4.1 max.

80 533 0



1 2 fixing holes M4 x 11

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

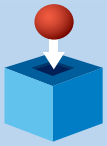
➜ 5 Nm 2.7 and 3.5 Watts

- **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

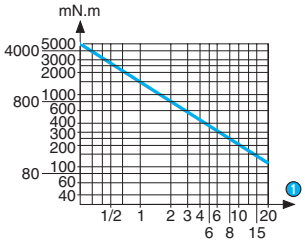
Product adaptations



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

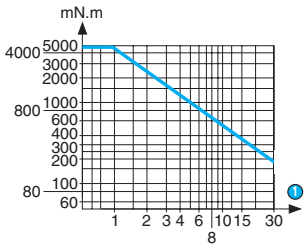
Curves

Torque/speed curves 80 517 0



1 RPM

Torque/speed curves 80 527 0



1 RPM

To order, see page 13

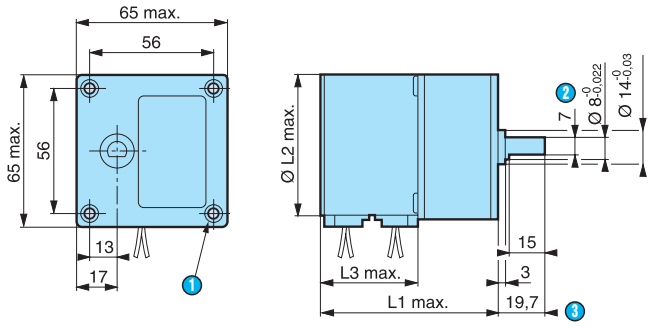
Crouzet

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

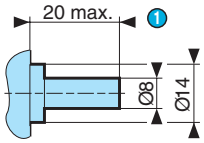


1. 4 holes M4 depth 12
2. 7 across flat
3. (pushed-in shaft ←)

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

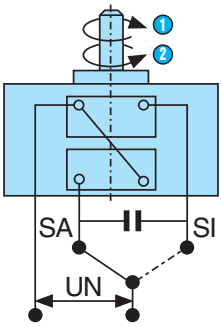
Shaft 79 206 478



1. (pushed-in shaft ←)

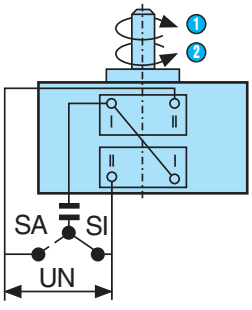
Connections

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

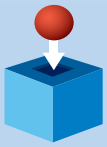
➜ 5 Nm 3.5 and 7.2 Watts

- **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

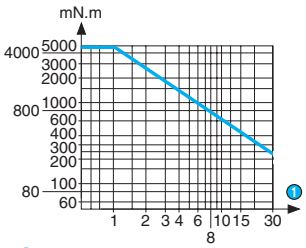
Product adaptations



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

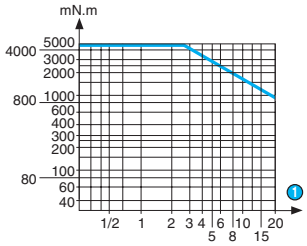
Curves

Torque/speed curves 80 527 4



1 RPM

Torque/speed curves 80 547 0



1 RPM

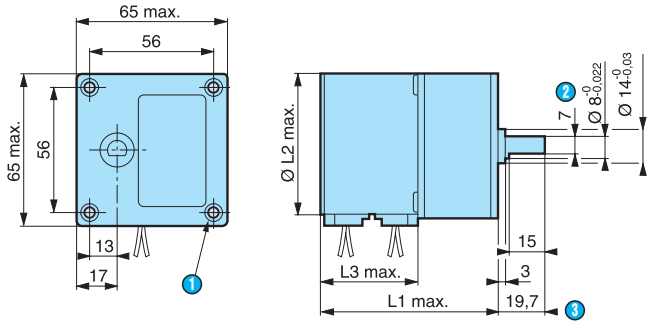
To order, see page 13

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

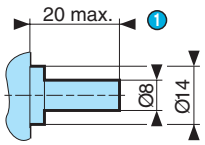


1. 4 holes M4 depth 12
2. 7 acroos flat
3. (pushed-in shaft ←)

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

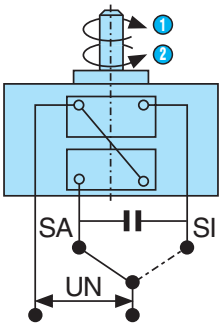
Shaft 79 206 478



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.