

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

Type
Base speed of motor (rpm)
Voltage / Frequency

3.5 Watts
82 524 0
250
230-240 V - 50 Hz

3.5 Watts
82 524 4
375
230-240 V - 50 Hz

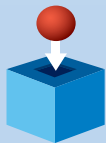
Output speed (250 RPM)	Output speed (375 RPM)	Ratios (i)
25.00 rpm	37.50 rpm	10
20.00 rpm	30.00 rpm	25/2
13.33 rpm	20.00 rpm	75/4
12.50 rpm	18.75 rpm	20
10.00 rpm	15.00 rpm	25
5.00 rpm	7.50 rpm	50
4.00 rpm	6.00 rpm	125/2
2.50 rpm	3.75 rpm	100
2.00 rpm	3.00 rpm	125
1.00 rpm	1.50 rpm	250
0.33 rpm	0.50 rpm	750

3.5 Watts	3.5 Watts
82 524 001	●
82 524 002	●
82 524 003	●
82 524 004	●
82 524 008	●
82 524 010	●
●	●
●	●
82 524 016	●
●	●

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

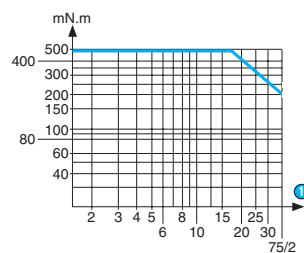
Product adaptations



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

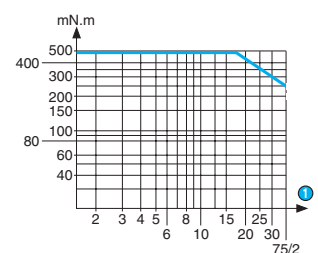
Curves

Torque/speed curves 82 524 0



① RPM

Torque/speed curves 82 524 4



① RPM

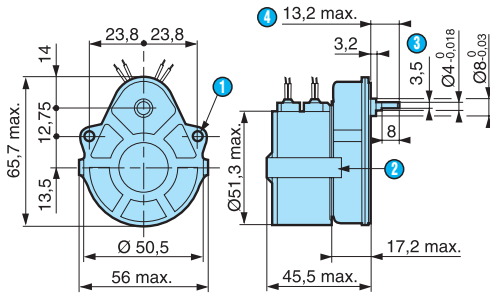
To order, see page 13

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 520 0			
230-240 V - 50 Hz	$0.10 \pm 10 \%$	700	26 231 941
115 V 60 Hz	$0.33 \pm 10 \%$	400	26 231 801
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
Capacitors motor 82 520 4			
230/240 V - 50 Hz	$0.12 \pm 10 \%$	600	26 231 903
115 V 60 Hz	$0.39 \pm 5 \%$	630	26 231 924
24 V - 50 Hz	$15 \pm 5 \%$	70	26 231 728
24 V - 60 Hz	$12 \pm 5 \%$	63	26 231 145

Dimensions

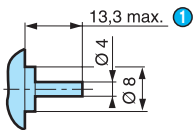
82 524 0 - 82 524 4



- 1 2 fixing holes $\text{Ø } 3.2$
- 2 Fixing clip
- 3 3.5 across flat
- 4 pushed-in shaft

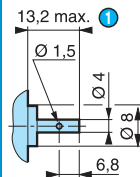
Options

Shaft 79 200 967



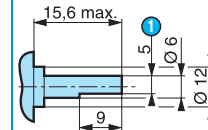
- 1 (pushed-in shaft ←)

Shaft 79 200 779



- 1 (pushed-in shaft ←)

Shaft 70 999 421 SP1295-10

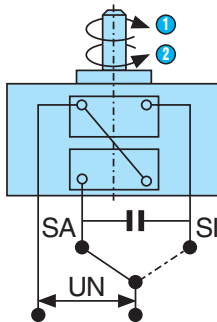


- 1 5 across flat

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 3.5 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



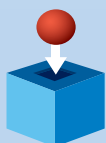
Specifications

	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	●	●
5.00 rpm	●	●
4.00 rpm	-	●
2.50 rpm	●	●
1.00 rpm	●	●
0.50 rpm	●	●
0.33 rpm	●	●
5.00 rev/hr	●	●
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

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

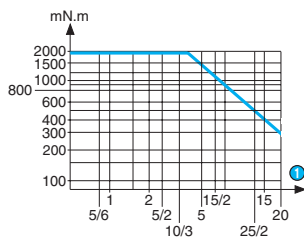
Product adaptations



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

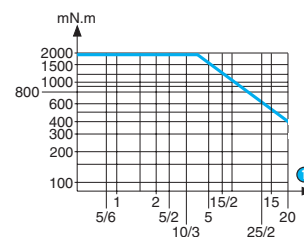
Curves

Torque/speed curves 82 529 0



① RPM

Torque/speed curves 82 529 4



① RPM

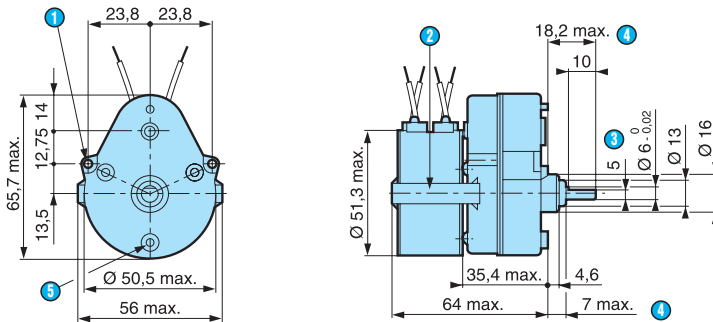
To order, see page 13

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 520 0			
230-240 V - 50 Hz	$0.10 \pm 10 \%$	700	26 231 941
115 V - 60 Hz	$0.33 \pm 10 \%$	400	26 231 801
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
Capacitors for motor 82 520 4			
230/240 V - 50 Hz	$0.12 \pm 10 \%$	600	26 231 903
115 V - 60 Hz	$0.39 \pm 5 \%$	630	26 231 924
24 V - 50 Hz	$15 \pm 5 \%$	70	26 231 728
24 V - 60 Hz	$12 \pm 5 \%$	63	26 231 145

Dimensions

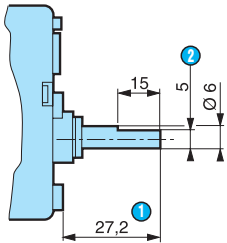
82 529 0 - 82 529 4



- 1 2 fixing holes $\text{Ø} 3.2$
- 2 Fixing clip
- 3 5 across flat
- 4 (pushed-in shaft \leftarrow)
- 5 3 mounting bosses $\text{Ø} 7.2$ at 120° on radius= 19.5 - 3 holes M3 depth 4

Options

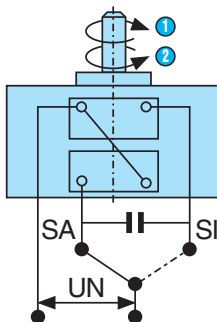
Shaft 79 202 573



- 1 (shaft pushed-in \leftarrow)
- 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.