

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

General characteristics

Motor

Gearbox

Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)

Axial load static (daN)

Radial load static (daN)

Absorbed power (W)

Motor output (W)

Maximum temperature rise (°C)

Ambient temperature (°C)

Weight (g)

Wires length mm (approximately)

Protection rating

82 520 0

81 021 0

0.5

1

8

3.5

0.98

50

-5 → +70

140

250

IP40

82 520 4

81 021 0

0.5

1

8

3.5

1.12

50

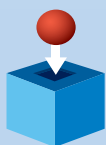
-5 → +70

140

250

IP40

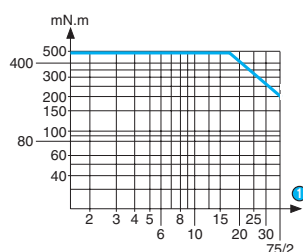
Product adaptations



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

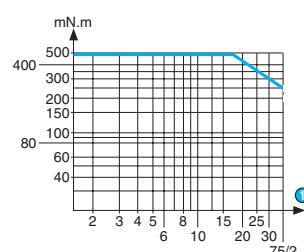
Curves

Torque/speed curves 82 524 0



1 RPM

Torque/speed curves 82 524 4

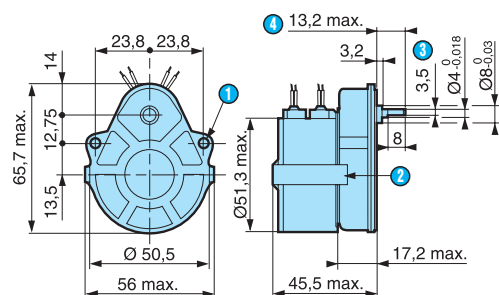


1 RPM

To order, see page 13

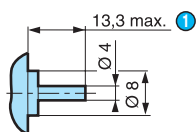
Voltages/Frequencies	µF	V	Code
Capacitors for motor 82 520 0			
230-240 V - 50 Hz	0.10 ± 10 %	700	26 231 941
115 V 60 Hz	0.33 ± 10 %	400	26 231 801
24 V - 50 Hz	8.2 ± 10 %	70	26 231 711
Capacitors motor 82 520 4			
230/240 V - 50 Hz	0.12 ± 10 %	600	26 231 903
115 V 60 Hz	0.39 ± 5 %	630	26 231 924
24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

82 524 0 - 82 524 4

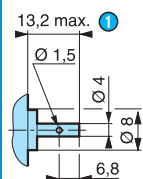


- 1 2 fixing holes $\varnothing$ 3.2
- 2 Fixing clip
- 3 3.5 across flat
- 4 pushed-in shaft

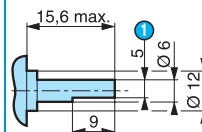
Shaft 79 200 967



- ① (pushed-in shaft ←)

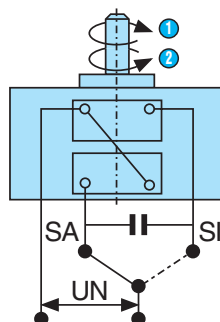


- ① (pushed-in shaft ←)



- 1 5 across flat

In parallel
Motors 82 520 0 - 82 520 4



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

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.