

Reversible synchronous geared motors

→ 0.5 Nm 3.5 Watts

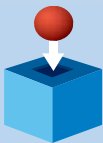
- Mechanical strength : 0.5 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards



Specifications

| Type | 3.5 Watts | | 3.5 Watts | |
|---|------------------------|------------|-------------------|---|
| Base speed of motor (rpm) | 82 524 0 | | 82 524 4 | |
| Voltage / Frequency | 250 | | 375 | |
| | 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 | |

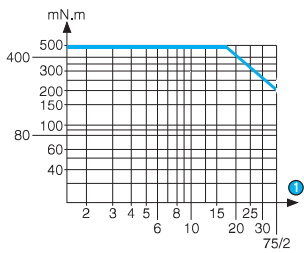
Product adaptations



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

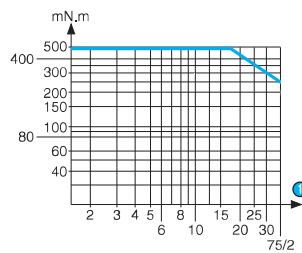
Curves

Torque/speed curves 82 524 0



① RPM

Torque/speed curves 82 524 4



① RPM

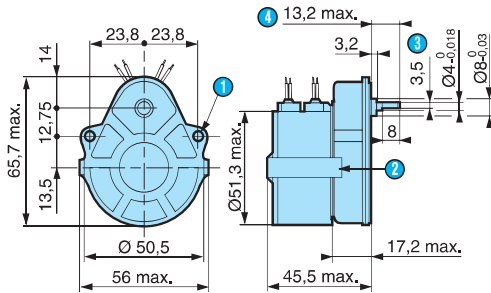
To order, see page 13

Accessories

| Voltages/Frequencies | μF | V | Code |
|-------------------------------|------------------|-----|------------|
| Capacitors for motor 82 520 0 | | | |
| 230-240 V - 50 Hz | $0,10 \pm 10 \%$ | 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

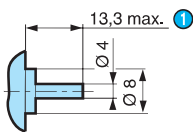
82 524 0 - 82 524 4



- 1 2 fixing holes $\text{Ø} 3,2$
- 2 Fixing clip
- 3 3,5 across flat
- 4 pushed-in shaft

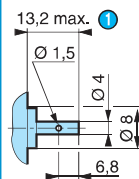
Options

Shaft 79 200 967



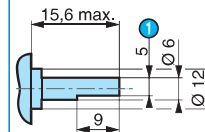
- 1 (pushed-in shaft ←)

Shaft 79 200 779



- 1 (pushed-in shaft ←)

Shaft 70 999 421 SP1295-10

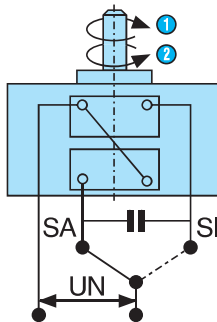


- 1 5 across flat

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.