

# D.C. geared motors with brushes

→ 0.5 Nm    3.9 Watts

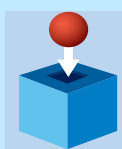
- A range of D.C. geared motors with sintered metal gears. Mechanical rating of gearbox with output shaft stalled : 0.5 Nm.
- 3.9 Watt motor power
- Available in either 12 or 24 V D.C. versions.
- Gearbox ratios options for 1.5 to 441 rpm.
- Options with magnetic encoder.



## Specifications

|                                                                                                |            | 3.9 Watts           | 3.9 Watts           |
|------------------------------------------------------------------------------------------------|------------|---------------------|---------------------|
| Type                                                                                           |            | 82 862 0/2          | 82 862 0/2          |
| Voltage                                                                                        |            | 12 V                | 24 V                |
| Output speed (rpm)                                                                             | Ratios (i) |                     |                     |
| 441                                                                                            | 9.76       | 82 862 001          | 82 862 004          |
| 141                                                                                            | 30.6       | 82 862 002          | 82 862 005          |
| 45                                                                                             | 95.4       | 82 862 003          | 82 862 006          |
| 14                                                                                             | 298        | 82 862 201          | 82 862 204          |
| 5                                                                                              | 931        | 82 862 202          | 82 862 205          |
| 1.5                                                                                            | 2910       | 82 862 203          | 82 862 206          |
| General characteristics                                                                        |            |                     |                     |
| Motor                                                                                          |            | 82 860 0            | 82 860 0            |
| Gearbox                                                                                        |            | 81 012 0 / 81 012 2 | 81 012 0 / 81 012 2 |
| Maximum permitted torque from gearmotor under continuous conditions (for 1 millions turns) N.m |            | 0.5                 | 0.5                 |
| Axial load static (daN)                                                                        |            | 1                   | 1                   |
| Radial load static (daN)                                                                       |            | 8                   | 8                   |
| Max. output (W)                                                                                |            | 3.9                 | 3.9                 |
| Nominal output (W)                                                                             |            | 3                   | 3                   |
| Gearbox case temperature rise (°C)                                                             |            | 50                  | 50                  |
| Weight (g)                                                                                     |            | 160 / 170           | 160 / 170           |

## Product adaptations

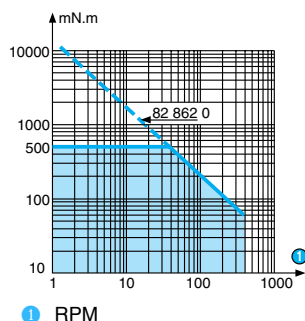


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

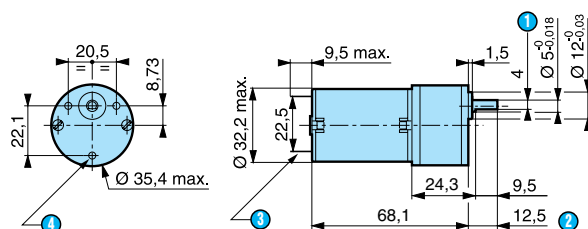
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves



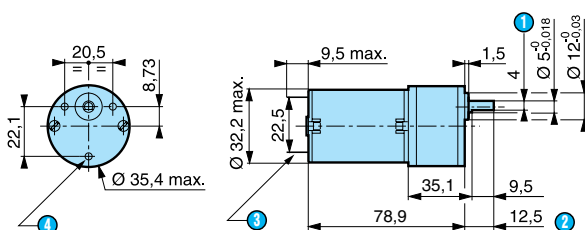
## Dimensions

### 82 862 0



- ① 4 mm across flats
- ② (shaft pushed-in ←)
- ③ 2 tags NFC 20-120 series 2.8 x 0.5 mm
- ④ 3 holes M3 depth 4.5 mm

### 82 862 2



- ① 4 mm across flats
- ② (shaft pushed-in ←)
- ③ 2 tags NFC 20-120 series 2.8 x 0.5 mm
- ④ 3 holes M3 depth 4.5 mm