

# D.C. geared motors with brushes

→ 0.5 Nm    3.9 Watts

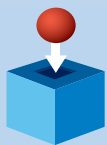
- A range of D.C. geared motors with ovoid gearbox. Mechanical rating of gearbox with output shaft stalled : 0.5 Nm.
- 3.9 Watt motor versions.
- Available in either 12 or 24 V D.C.
- Gearbox ratios options for 0.36 to 430 rpm.



## Specifications

		3.9 Watts	3.9 Watts
Type		82 861 0	82 861 0
Voltage		12 V	24 V
Standard speed (rpm)		4300	4300
Output speed (rpm)	Ratios (i)		
430	10	82 861 006	82 861 015
215	20	82 861 007	82 861 016
179	24	●	●
143	30	82 861 008	82 861 017
108	40	82 861 009	82 861 018
90	48	●	●
54	80	82 861 010	82 861 019
49	90	●	●
29	150	●	●
22	200	82 861 011	82 861 020
11	375	82 861 012	82 861 021
8.6	500	82 861 013	82 861 022
5.8	750	●	●
3.6	1200	82 861 014	82 861 023
1.8	2400	●	●
0.80	5400	●	●
0.36	12000	●	●
General characteristics			
Motor		82 860 0	82 860 0
Gearbox		81 021 0	81 021 0
Maximum permitted torque from gearmotor under continuous conditions (for 1 millions turns) Nm		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	160

## Product adaptations

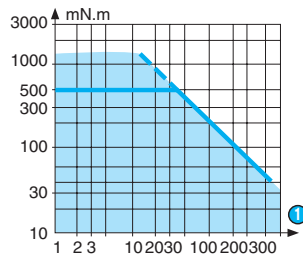


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## 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.

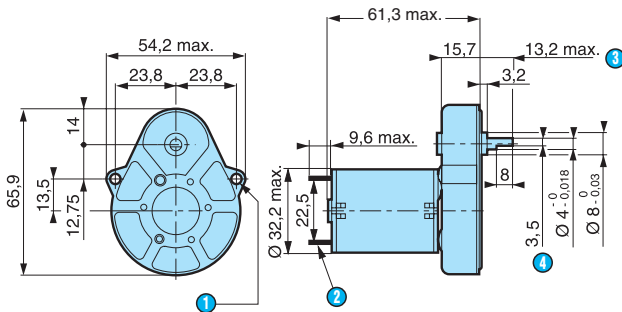
Nominal speed and torque curves



① RPM

## Dimensions

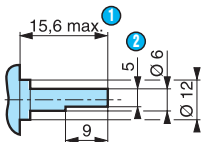
82 861 0



- ① 2 fixing holes  $\varnothing 3.2$
- ② 2 tags NFC 20-120 series 2.8 x 0.5 mm
- ③ (shaft pushed-in  $\leftarrow$ )
- ④ 3.5 mm across flats

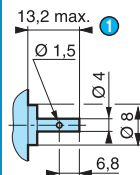
## Options

Shaft 70 999 421  
SP1295.10



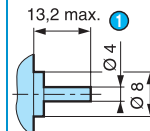
- ① (shaft pushed-in  $\leftarrow$ )
- ② 5 across flat

Shaft 79 200 779



- ① (shaft pushed-in  $\leftarrow$ )

Shaft 79 200 967



- ① (shaft pushed-in  $\leftarrow$ )

# D.C. geared motors with brushes

## → 1.2 Nm 10 and 17 Watts

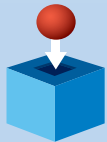
- A range of D.C. geared motors with solid metal gears
- Mechanical rating of gearbox with output shaft stalled : 1.2 Nm
- 10 and 17 Watt motor power
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 20 to 100 rpm



### Specifications

		17 Watts	17 Watts	10 Watts	10 watts
Type		82 802 0	82 802 0	82 812 0	82 812 0
Voltage		12 V	24 V	12 V	24 V
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>				
100	26	●	●	●	●
80	32.5	●	●	●	●
60	130/3	●	●	●	●
38	67.6	●	●	●	●
30	598/7	●	●	●	●
20	130	●	●	●	●
<b>General characteristics</b>					
Motor		82 800 0	82 800 0	82 810 0	82 810 0
Gearbox		81 032 1	81 032 1	81 032 1	81 032 1
Maximum permitted torque from gearmotor under continuous conditions for 10 millions turns (Nm)		1.2	1.2	1.2	1.2
Axial load dynamic (daN)		3.5	3.5	3.5	3.5
Radial load dynamic (daN)		5	5	5	5
Max. output (W)		16.3	17	10.3	9.5
Nominal output (W)		15.7	15.6	9.4	8.7
Gearbox case temperature rise (°C)		44	40	45	46
Weight (g)		670	670	670	670

### Product adaptations

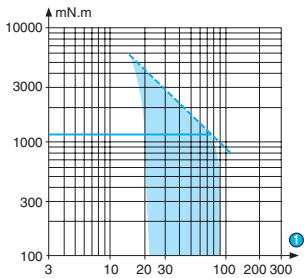


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

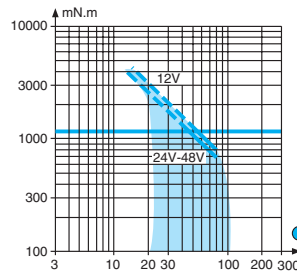
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves  
82 802 0



① RPM

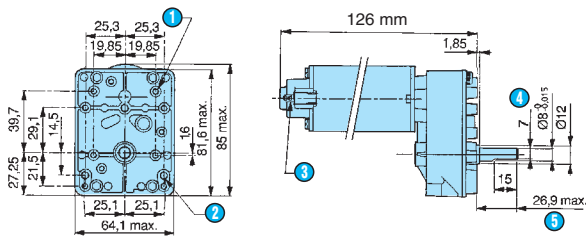
Nominal speed and torque curves  
82 812 0



① RPM

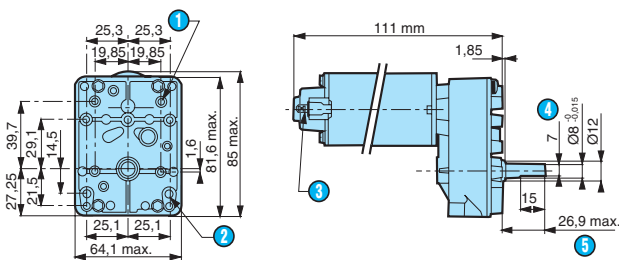
## Dimensions

### 82 802 0



- ① 4 holes M4 depth 7.5 mm
- ② 3 holes M5 at 120° depth 7.5 mm
- ③ 2 tags IEC 760 series 4.8 x 0.5 mm
- ④ 7 mm across flats
- ⑤ (shaft pushed-in ←)

### 82 812 0



- ① 8 holes M4 depth 7.5 mm
- ② 3 holes M5 at 120° depth 7.5 mm
- ③ 2 tags IEC 760 series 4.8 x 0.5 mm
- ④ 7 mm across flats
- ⑤ (shaft pushed-in ←)

# D.C. geared motors with brushes

→ 2 Nm 3.9 Watts

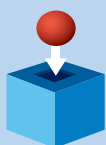
- A range of D.C. geared motors with ovoid gearbox. Mechanical rating of gearbox with output shaft stalled : 2 Nm.
- 3.9 Watt motor versions.
- Available in either 12 or 24 V D.C.
- Gearbox ratios options for 0.36 to 430 rpm.
- Alternative shaft options.



## Specifications

		3.9 Watts	3.9 Watts
Type		82 869 0	82 869 0
Voltage		12 V	24 V
Output speed (rpm)	Ratios (i)		
108	40	82 869 001	82 869 011
54	80	82 869 006	82 869 012
27	160	82 869 007	82 869 013
13	320	82 869 008	82 869 014
7.2	600	82 869 009	82 869 015
5.4	800	•	•
2.9	1500	82 869 010	82 869 016
0.90	4800	•	•
General characteristics			
Motor		82 860 0	82 860 0
Gearbox		81 033 0	81 033 0
Maximum permitted torque from gearmotor under continuous conditions for 1 millions turns (Nm)		2	2
Axial load static (daN)		1	1
Radial load static (daN)		10	10
Max. output (W)		3.9	3.9
Nominal output (W)		3	3
Gearbox case temperature rise (°C)		50	50
Weight (g)		240	240

## Product adaptations

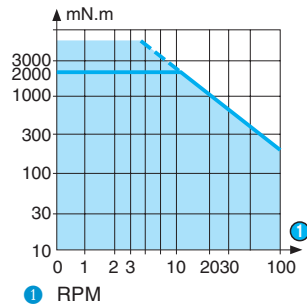


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

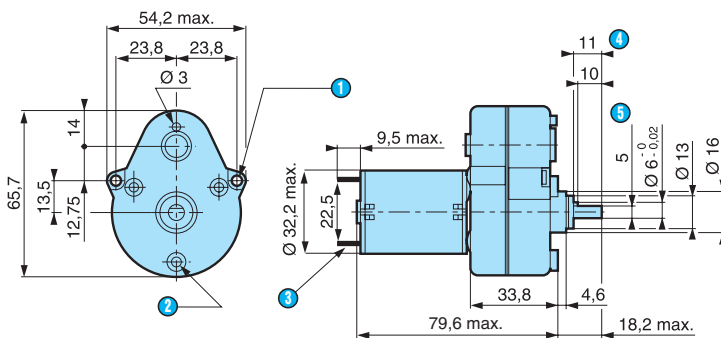
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves



## Dimensions

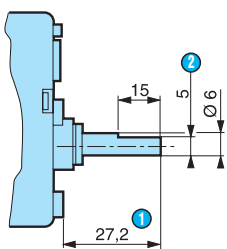
82 869 0



- 1 2 fixing holes  $\text{Ø } 3.2$
- 2 3 bosses  $\text{Ø } 7.2$  at  $120^\circ$  on  $R=19.5$  with 3 M3 holes
- 3 2 tags NFC 20-120 series  $2.8 \times 0.5$  mm
- 4 (shaft pushed-in  $\leftarrow$ )
- 5 5 mm across flats

## Options

Shaft 79 202 573



- 1 (shaft pushed-in  $\leftarrow$ )
- 2 5 across flat

# D.C. geared motors with brushes

→ 2 Nm 3.9 Watts

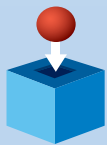
- A range of D.C. geared motors with metal gearbox. Mechanical rating of gearbox with output shaft stalled : 2 Nm.
- 3.9 Watt motor power.
- Available in either 12 or 24 V D.C.
- Gearbox ratios options for 99 to 662 rpm.



## Specifications

		3.9 Watts	3.9 Watts
Type		82 863 0	82 863 0
Voltage		12 V	24 V
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>		
662	13/2	●	●
498	855/99	●	●
266	728/45	●	●
198	65/3	●	●
170	455/18	●	●
132	32.5	●	●
99	130/3	●	●
<b>General characteristics</b>			
Motor		82 860 0	82 860 0
Gearbox		81 043 0	81 043 0
Maximum permitted torque from gearmotor under continuous conditions (for 1 millions turns) (Nm)		2	2
Axial load dynamic (daN)		2	2
Radial load dynamic (daN)		2	2
Max. output (W)		3.9	3.9
Nominal output (W)		3	3
Gearbox case temperature rise (°C)		50	50
Weight (g)		285	285

## Product adaptations

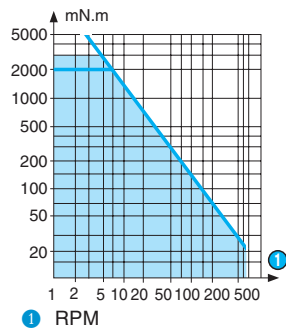


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

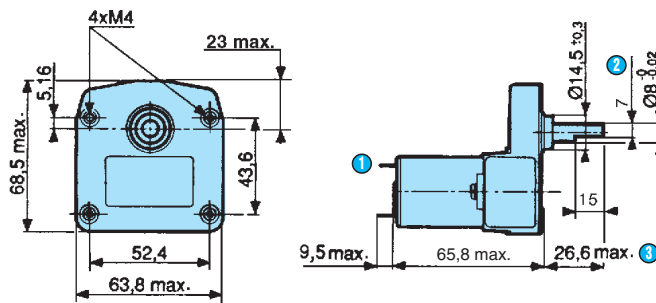
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves



## Dimensions

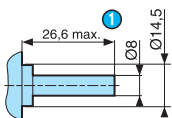
82 863 0



- 1 2 tags NFC 20-120 series 2.8 x 0.5 mm
- 2 7 mm across flats
- 3 (shaft pushed-in ←)

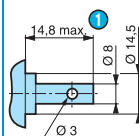
## Options

Shaft 79 261 300



- 1 (shaft pushed-in ←)

Shaft 79 261 309



- 1 (shaft pushed-in ←)



# D.C. geared motors with brushes

→ 2 Nm 3.9 Watts

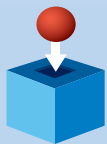
- A range of D.C. geared motors with metal gearbox. Mechanical rating of gearbox with output shaft stalled : 2 Nm.
- 3.9 Watt motor versions.
- Available in either 12 or 24 V D.C.
- Gearbox ratios options for 2 to 66 rpm.



## Specifications

		3.9 Watts	3.9 Watts
Type		82 864 0	82 864 0
Voltage		12 V	24 V
Output speed (rpm)	Ratios (i)		
66	65	●	●
40	325/3	●	●
26	162.5	●	●
13	325	●	●
7	650	●	●
2	2600	●	●
General characteristics			
Motor		82 860 0	82 860 0
Gearbox		81 044 0	81 044 0
Maximum permitted torque from gearmotor under continuous conditions (for 1 millions turns) (Nm)		2	2
Axial load dynamic (daN)		2	2
Radial load dynamic (daN)		2	2
Max. output (W)		3.9	3.9
Nominal output (W)		3	3
Gearbox case temperature rise (°C)		50	50
Weight (g)		355	355

## Product adaptations

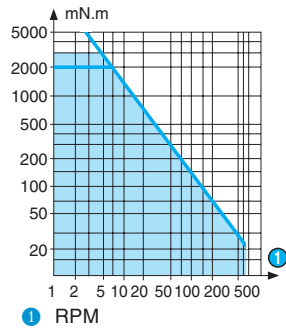


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

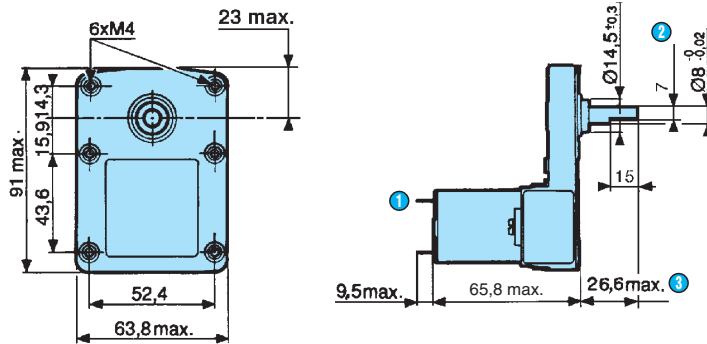
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves



## Dimensions

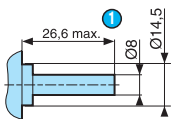
82 864 0



- ① 2 tags NFC 20-120 series 2.8 x 0.5 mm
- ② 7 mm across flats
- ③ (shaft pushed-in ←)

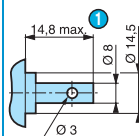
## Options

Shaft 79 261 300



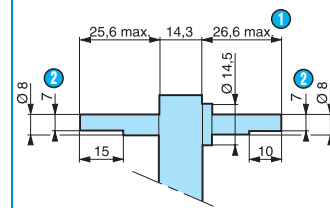
- ① (shaft pushed-in ←)

Shaft 79 261 309



- ① (shaft pushed-in ←)

Shaft 79 261 314



- ① (shaft pushed-in ←)
- ② 7 across flat

# D.C. geared motors with brushes

→ 2 Nm 10 and 17 Watts

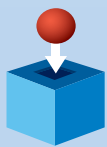
- A range of D.C. geared motors with solid metal gears  
Mechanical rating of gearbox with output shaft stalled : 1.2 Nm
- 10 and 17 Watt motor power
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 60 to 400 rpm



## Specifications

		17 Watts	17 Watts	10 Watts	10 Watts
Type		80 803 0	80 803 0	80 813 0	80 813 0
Voltage		12 V	24 V	12 V	24 V
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>				
400	13/2	•	•	•	•
301	855/99	•	•	•	•
161	728/45	80 803 005	80 803 008	•	•
120	65/3	•	•	•	•
103	455/18	•	•	•	•
80	32.5	80 803 006	80 803 009	•	•
60	130/3	80 803 007	80 803 010	•	•
<b>General characteristics</b>					
Motor		82 800 0	82 800 0	82 810 0	82 810 0
Gearbox		81 043 0	81 043 0	81 043 0	81 043 0
Maximum permitted torque from gearmotor under continuous conditions for 1 millions turns Nm		2	2	2	2
Axial load dynamic (daN)		2	2	2	2
Radial load dynamic (daN)		2	2	2	2
Max. output (W)		16.3	17	10.3	9.5
Nominal output (W)		15.7	15.6	9.4	8.7
Gearbox case temperature rise (°C)		44	40	45	46
Weight (g)		600	600	500	500

## Product adaptations

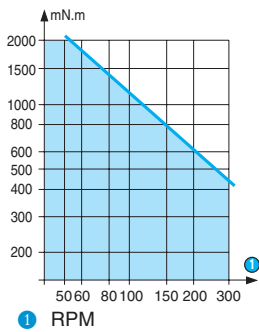


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

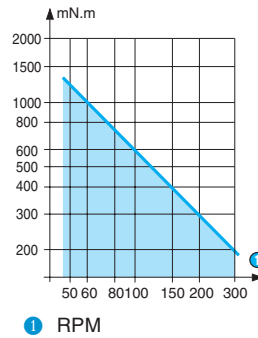
## Curves

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 80 803 0

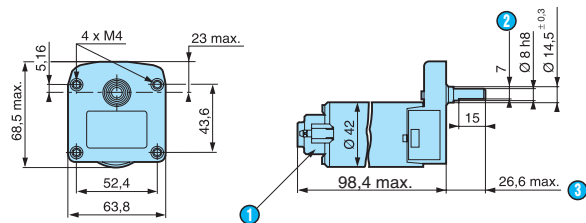


Nominal speed and torque curves 80 813 0



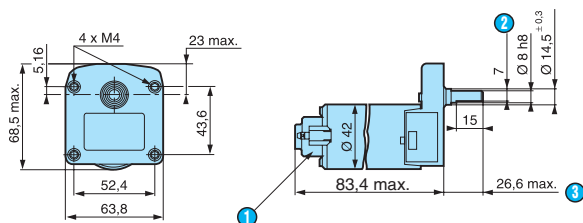
## Dimensions

### 80 803 0



- 1 2 tags IEC 760 series 4.8 x 0.5 mm
- 2 7 mm across flats
- 3 (shaft pushed-in ←)

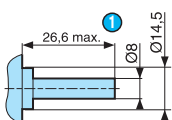
### 80 813 0



- 1 2 tags IEC 760 series 4.8 x 0.5 mm
- 2 7 mm across flats
- 3 (shaft pushed-in ←)

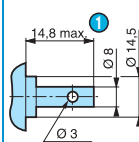
## Options

### Shaft 79 261 300



- 1 (shaft pushed-in ←)

### Shaft 79 261 309



- 1 (shaft pushed-in ←)

# D.C. geared motors with brushes

→ 2 Nm 10 and 17 Watts

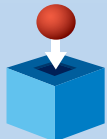
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 2 Nm.
- 10 and 17 Watt motor power.
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 1 to 40 rpm.



## Specifications

		17 Watts	17 Watts	10 Watts	10 Watts
Type		80 804 0	80 804 0	80 814 0	80 814 0
Voltage		12 V	24 V	12 V	24 V
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>				
40	65	•	•	•	•
24	325/3	80 804 006	80 804 009	•	•
16	162.5	•	•	•	•
8	325	80 804 007	80 804 010	•	•
4	650	80 804 008	80 804 011	•	•
1	2600	•	•	•	•
<b>General characteristics</b>					
Motor		82 800 0	82 800 0	82 810 0	82 810 0
Gearbox		81 044 0	81 044 0	81 044 0	81 044 0
Maximum permitted torque from gearmotor under continuous conditions for 1 millions turns Nm		2	2	2	2
Axial load dynamic (daN)		2	2	2	2
Radial load dynamic (daN)		2	2	2	2
Max. output (W)		16.3	17	10.3	9.5
Nominal output (W)		15.7	15.6	9.3	8.7
Gearbox case temperature rise (°C)		44	40	45	46
Weight (g)		670	670	570	570

## Product adaptations

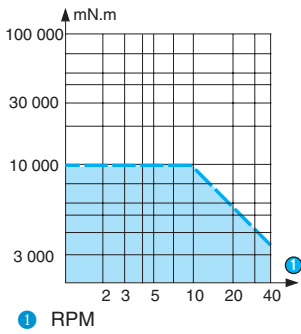


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

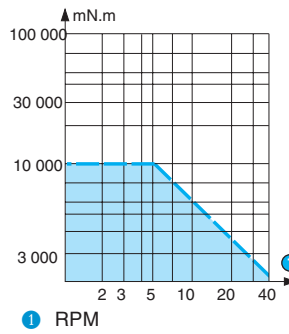
## Curves

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 80 804 0

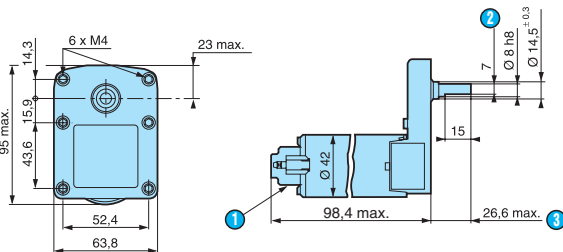


Nominal speed and torque curves 80 814 0



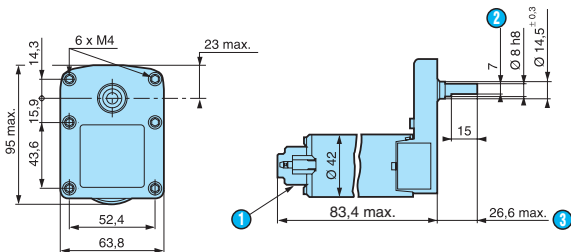
## Dimensions

### 80 804 0



- 1 2 tags IEC 760 series 4.8 x 0.5 mm
- 2 7 mm across flats
- 3 (shaft pushed-in ←)

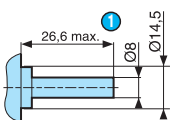
### 80 814 0



- 1 2 tags IEC 760 series 4.8 x 0.5 mm
- 2 7 mm across flats
- 3 (shaft pushed-in)

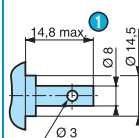
## Options

### Shaft 79 261 300



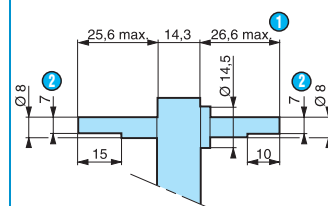
- 1 (shaft pushed-in ←)

### Shaft 79 261 309



- 1 (shaft pushed-in ←)

### Shaft 79 261 314



- 1 (shaft pushed-in ←)
- 2 7 across flat

# D.C. geared motors with brushes

→ 5 Nm 3.9 Watts

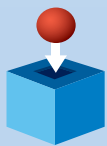
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 5 Nm.
- 3.9 Watt motor versions.
- Available in either 12 or 24 V D.C.
- Gearbox ratios options for 1.7 to 344 rpm.
- Interference suppression on standard products



## Specifications

		3.9 Watts	3.9 Watts
Type		82 867 0	82 867 0
Voltage		12 V	24 V
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>		
344	12.5	82 867 001	82 867 007
258	50/3	●	●
172	25	82 867 002	82 867 008
103	125/3	82 867 003	82 867 009
69	62.5	82 867 004	82 867 010
34	125	82 867 005	82 867 011
17	250	●	●
8.6	500	82 867 006	82 867 012
1.72	2500	●	●
<b>General characteristics</b>			
Motor		82 860 0	82 860 0
Gearbox		81 037 0	81 037 0
Maximum permitted torque from gearmotor under continuous conditions (for 1 millions turns) N.m		5	5
Axial load dynamic (daN)		2	2
Radial load dynamic (daN)		3	3
Max. output (W)		3.9	3.9
Nominal output (W)		3	3
Gearbox case temperature rise (°C)		50	50
Weight (g)		465	465

## Product adaptations

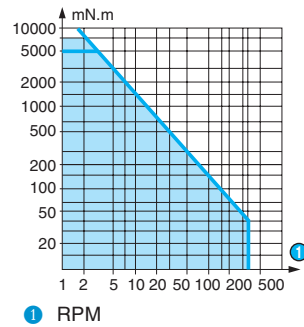


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

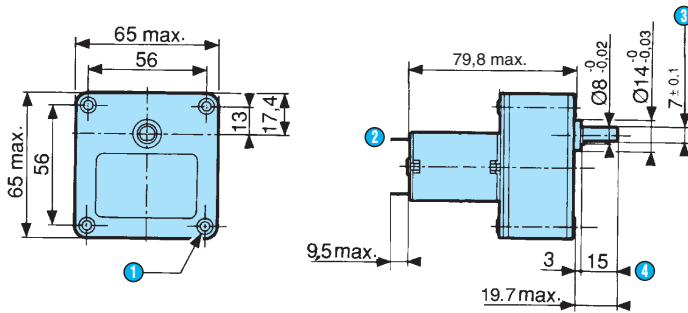
The shaded zone represents the operating range of the geared motor.  
 The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
 For higher torque ratings, service life will be reduced.

Nominal speed and torque curves 82 867 0



## Dimensions

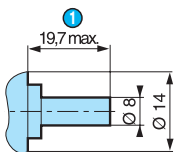
82 867 0



- ① 4 fixing holes  $\text{Ø} \text{M}4 \times 12 \text{ mm}$
- ② 2 tags NFC 20-120 series  $2.8 \times 0.5 \text{ mm}$
- ③  $7 \text{ mm} \pm 0.1$  across flats
- ④ (shaft pushed-in ←)

## Options

Shaft 79 206 478



- ① (shaft pushed-in ←)



# D.C. geared motors with brushes

→ 5 Nm 10 and 17 Watts

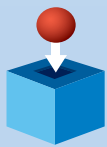
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 5 Nm.
- 10 and 17 Watt motor power.
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 10.5 to 616 rpm.



## Specifications

		17 Watts	17 Watts	10 Watts	10 Watts
Type		80 805 0	80 805 0	80 815 0	80 815 0
Voltage		12 V	24 V	12 V	24 V
Standard speed (rpm)		2600 rpm	2600 rpm	2600 rpm	2600 rpm
Output speed (rpm)	Ratios (i)				
616	4.22	●	●	●	●
385	6.75	●	●	●	●
339.5	7.66	●	●	●	●
212	12.25	●	●	●	●
170	15.31	●	●	●	●
106	24.5	●	●	●	●
68	38.28	●	●	●	●
53	49	●	●	●	●
42.5	61.25	●	●	●	●
21	122.5	●	●	●	●
10.5	245	●	●	●	●
General characteristics					
Motor		82 800 0	82 800 0	82 810 0	82 810 0
Gearbox		81 035 0	81 035 0	81 035 0	81 035 0
Maximum permitted torque from gearmotor under continuous conditions (N.m)		5	5	5	5
Axial load dynamic (daN)		6	6	6	6
Radial load dynamic (daN)		6	6	6	6
Max. output (W)		16.3	17	10.3	9.5
Nominal output (W)		15.7	15.6	9.4	8.7
Gearbox case temperature rise (°C)		44	40	45	46
Weight (g)		920	920	820	820

## Product adaptations

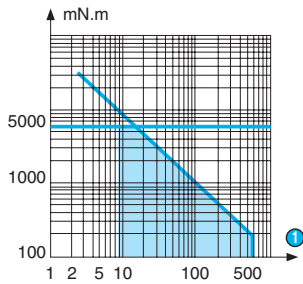


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

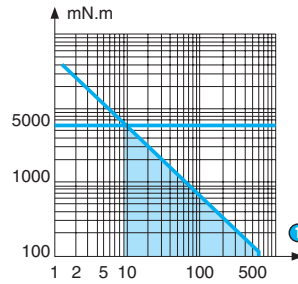
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves 80 805 0



① RPM

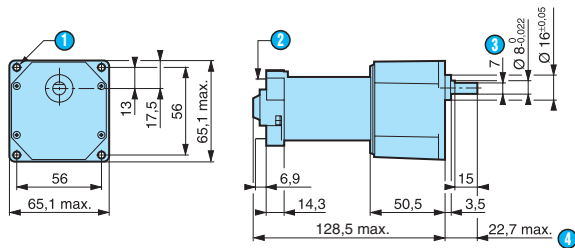
Nominal speed and torque curves 80 815 0



① RPM

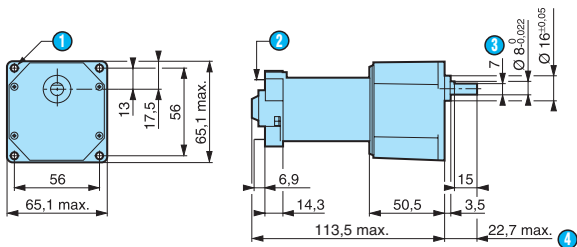
## Dimensions

### 80 805 0



- ① 4 fixing holes  $\varnothing 4.2$
- ② 2 tags IEC 760 series 4.8 x 0.5 mm
- ③ 7 mm  $\pm 0.1$  across flats
- ④ (shaft pushed-in  $\leftarrow$ )

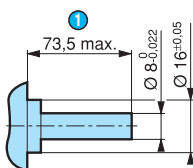
### 80 815 0



- ① 4 fixing holes  $\varnothing 4.2$
- ② 2 tags IEC 760 series 4.8 x 0.5 mm
- ③ 7 mm  $\pm 0.1$  across flats
- ④ (shaft pushed-in  $\leftarrow$ )

## Options

### Gearbox shaft 79 290 064



- ① (shaft pushed-in  $\leftarrow$ )

# D.C. geared motors with brushes

→ 5 Nm 10 and 17 Watts

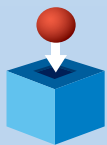
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 5 Nm.
- 10 and 17 Watt motor power.
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 1 to 208 rpm.



## Specifications

		17 Watts	17 Watts	10 watts	10 Watts
Type		80 807 0	80 807 0	80 817 0	80 817 0
Voltage		12 V	24 V	12 V	24 V
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>				
208	12.5	80 807 012	80 807 018	•	•
156	50/3	•	•	•	•
104	25	80 807 013	80 807 019	•	•
62	125/3	80 807 014	80 807 020	•	•
42	62.5	80 807 015	80 807 021	•	•
21	125	80 807 016	80 807 001	•	•
10	250	•	•	•	•
5.20	500	80 807 017	80 807 022	•	•
1.04	2500	•	•	•	•
<b>General characteristics</b>					
Motor		82 800 0	82 800 0	82 810 0	82 810 0
Gearbox		81 037 0	81 037 0	81 037 0	81 037 0
Maximum permitted torque from gearmotor under continuous conditions for 1 millions turns (Nm)		5	5	5	5
Axial load dynamic (daN)		2	2	2	2
Radial load dynamic (daN)		3	3	3	3
Max. output (W)		16.3	17	10.3	9.5
Nominal output (W)		15.7	15.6	9.4	8.7
Gearbox case temperature rise (°C)		44	40	45	46
Weight (g)		800	800	710	710

## Product adaptations

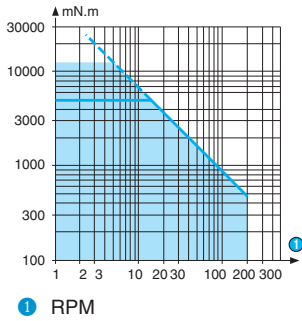


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

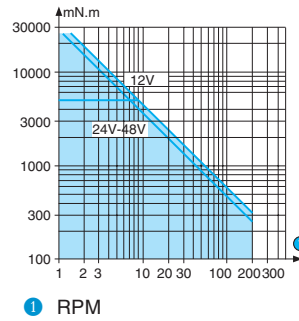
## Curves

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 80 807 0

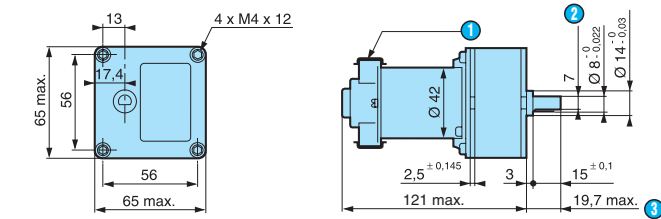


Nominal speed and torque curves 80 817 0



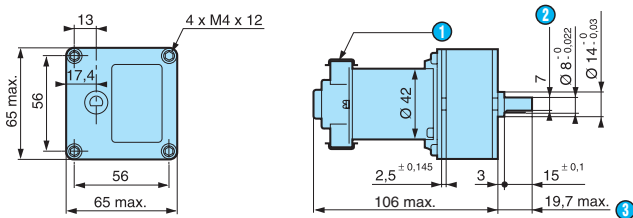
## Dimensions

### 80 807 0



- ① 2 tags IEC 760 series 4.8 x 0.5 mm
- ② 7 mm across flats
- ③ (shaft pushed-in ←)

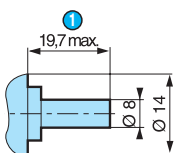
### 80 817 0



- ① 2 tags IEC 760 series 4.8 x 0.5 mm
- ② 7 mm across flats
- ③ (shaft pushed-in ←)

## Options

### Gearbox shaft 79 206 478



- ① (shaft pushed-in ←)

# D.C. geared motors with brushes

→ 5 Nm 33 Watts

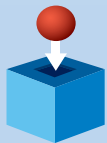
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 5 Nm.
- 33 Watt motor power.
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 7.4 to 426 rpm.



## Specifications

		33 Watts	33 Watts
Type		80 835 0	80 835 0
Voltage		12 V	24 V
Standard speed (rpm)		1800 rpm	1800 rpm
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>		
426	4.22	●	●
266	6.75	80 835 012	80 835 009
235	7.66	●	●
147	12.25	80 835 013	80 835 004
118	15.31	●	●
73	24.5	80 835 014	80 835 002
47	38.28	80 835 015	80 835 003
37	49	●	●
29.4	61.25	80 835 016	80 835 008
14.7	122.5	80 835 017	80 835 006
7.4	245	80 835 018	80 835 005
<b>General characteristics</b>			
Motor		82 830 0	82 830 0
Gearbox		81 035 0	81 035 0
Maximum permitted torque from gearmotor under continuous conditions (N.m)		5	5
Axial load dynamic (daN)		6	6
Radial load dynamic (daN)		6	6
Max. output (W)		33	33
Nominal output (W)		27	27
Gearbox case temperature rise (°C)		50	50
Weight (g)		1540	1540

## Product adaptations

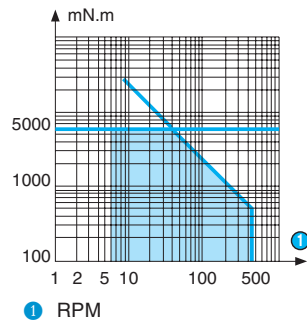


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

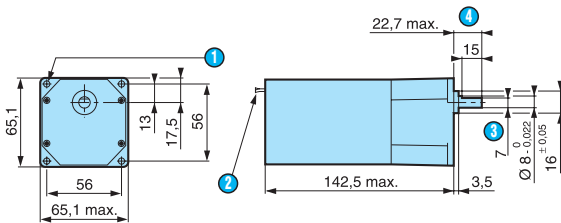
The shaded zone represents the operating range of the geared motor.  
 The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
 For higher torque ratings, service life will be reduced.

Nominal speed and torque curves



## Dimensions

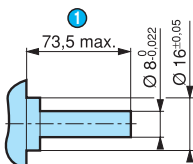
80 835 0



- 1 4 fixing holes  $\text{Ø} 4.2$
- 2 Lead length  $200 \text{ mm} \pm 10$
- 3 7 mm across flats
- 4 (shaft pushed-in ←)

## Options

Gearbox shaft 79 290 064



- 1 (shaft pushed-in ←)

# D.C. geared motors with brushes

→ 5 Nm 42 to 52 Watts

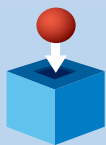
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 5 Nm.
- 40 to 52 Watt motor versions.
- Available in either 12 or 24 V D.C.
- Gearbox ratios options for 13.8 to 805 rpm.



## Specifications

	42 Watts	52 Watts
Type	80 855 0	80 855 0
Voltages	12 V	24 V
Standard speed (rpm)	3400 rpm	3400 rpm
Output speed (rpm)	Ratios (i)	
805	4.22	●
503	6.75	●
444	7.66	●
277	12.25	●
222	15.31	●
139	24.5	●
89	38.28	●
69	49	●
55	61.25	●
28	122.5	●
13.8	245	●
General characteristics		
Motor	82 850 0	82 850 0
Gearbox	81 035 0	81 035 0
Maximum permitted torque from gearmotor under continuous conditions (2.5 million revolution) (N.m)	5	5
Axial load dynamic (daN)	6	6
Radial load dynamic (daN)	6	6
Max. output (W)	42	52
Nominal output (W)	32	32
Gearbox case temperature rise (°C)	45	45
Weight (g)	985	985

## Product adaptations

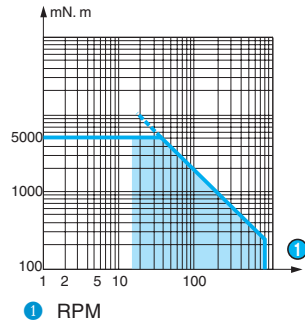


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

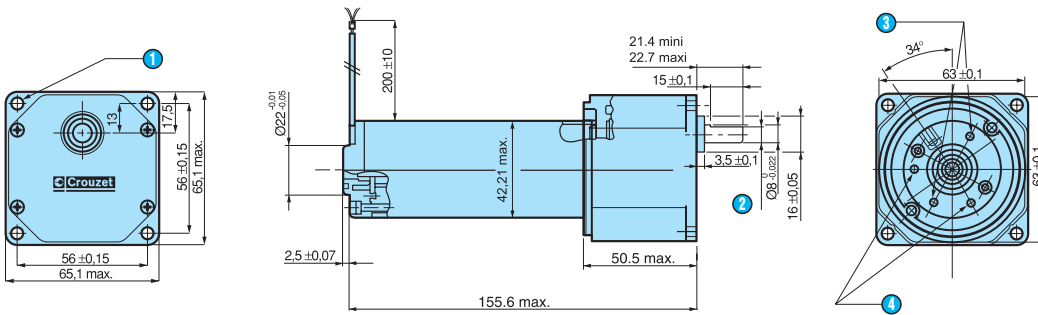
## Curves

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



- ① 4 fixing holes Ø 4.2
- ② 7 mm ± 0.1 across flats
- ③ 2 holes M3 x 0.5 at 180° depth 4 on Ø 32
- ④ 2 holes 2.5 ± 0.5 at 120° depth 4.5 on Ø 32



# D.C. geared motors with brushes

→ 6 Nm 10 and 17 Watts

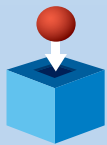
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 6 Nm.
- 10 and 17 Watt motor power.
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 4 to 12 rpm.



## Specifications

		10 Watts	10 Watts	17 Watts	17 Watts
Type		82 812 5	82 812 5	82 802 5	82 802 5
Voltage		12 V	24 V	12 V	24 V
Standard speed (rpm)		2600	2600	2600	2600
Output speed (rpm)	Ratios (i)				
12	650/3	●	●	●	●
8	338	●	●	●	●
4	650	●	●	●	●
General characteristics					
Motor		82 810 0	82 810 0	82 800 0	82 800 0
Gearbox		81 032 6	81 032 6	81 032 6	81 032 6
Maximum permitted torque from gearmotor under continuous conditions for 10 millions turns (Nm)		6	6	6	6
Axial load dynamic (daN)		3.5	3.5	3.5	3.5
Radial load dynamic (daN)		5	5	5	5
Max. output (W)		10.3	9.5	16.3	17
Nominal output (W)		9.4	8.7	15.7	15.6
Gearbox case temperature rise (°C)		45	46	44	40
Weight (g)		880	880	880	880

## Product adaptations

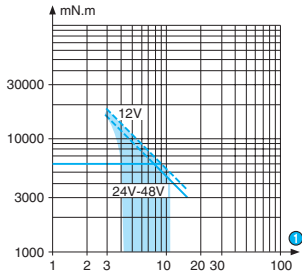


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

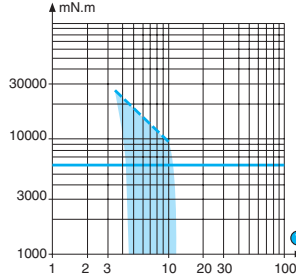
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves 82 812 5



① RPM

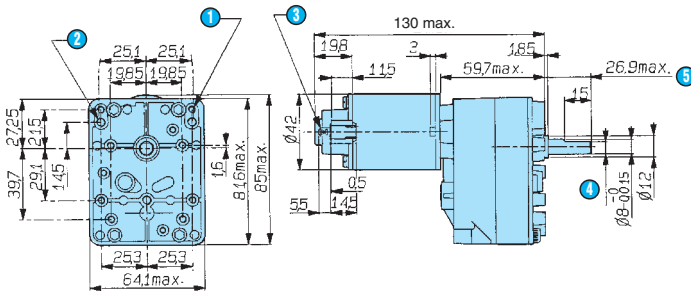
Nominal speed and torque curves 82 802 5



① RPM

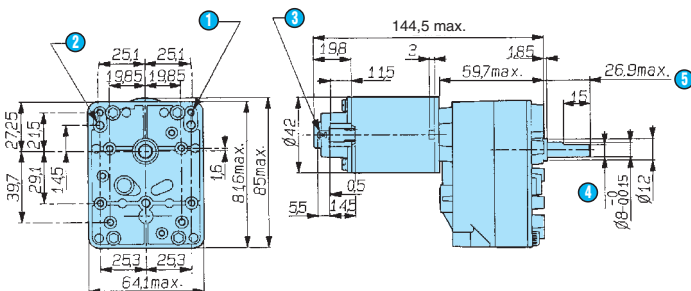
## Dimensions

### 82 812 5



- ① 8 holes M4 depth 7.5 mm
- ② 3 holes M5 at 120° depth 7.5 mm
- ③ 2 tags IEC 760 series 4.8 x 0.5 mm
- ④ 7 mm across flats
- ⑤ (shaft pushed-in ←)

### 82 802 5



- ① 8 holes M4 depth 7.5 mm
- ② 3 holes M5 at 120° depth 7.5 mm
- ③ 2 tags IEC 760 series 4.8 x 0.5 mm
- ④ 7 mm across flats
- ⑤ (shaft pushed-in ←)

# D.C. geared motors with brushes

→ 6 Nm 33 Watts

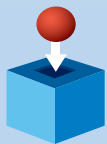
- A range of D.C. geared motors with solid metal gears. Mechanical rating of gearbox with output shaft stalled : 6 Nm.
- 33 Watt motor power.
- Available in either 12, 24 or 48 V D.C.
- Gearbox ratios options for 5 to 14 rpm.



## Specifications

		33 Watts	33 Watts
Type		82 832 5	82 832 5
Voltages		12 V	24 V
<b>Output speed (rpm)</b>	<b>Ratios (i)</b>		
14	130	•	•
8	650/3	•	•
5	338	•	•
<b>General characteristics</b>			
Motor		82 830 0	82 830 0
Gearbox		81 032 6	81 032 6
Maximum permitted torque from gearmotor under continuous conditions for 10 millions turns (Nm)		6	6
Axial load dynamic (daN)		3.5	3.5
Radial load dynamic (daN)		5	5
Max. output (W)		33	33
Nominal output (W)		27	27
Gearbox case temperature rise (°C)		50	50
Weight (g)		1400	1400

## Product adaptations

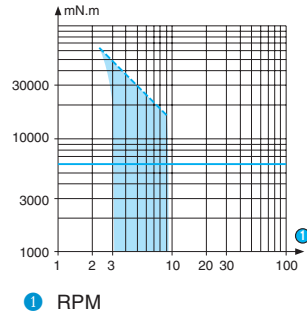


- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

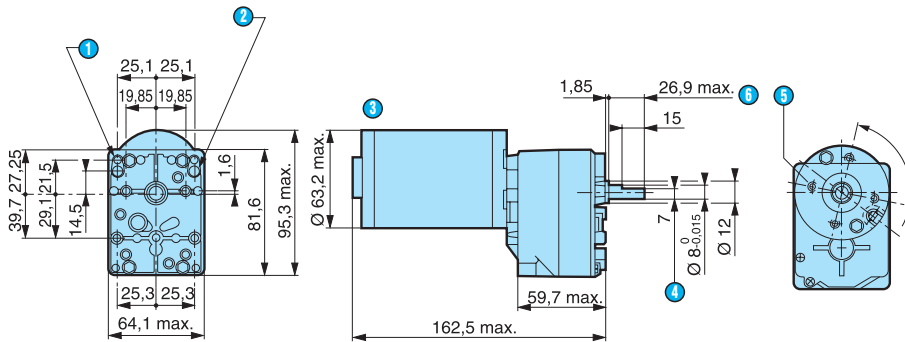
The shaded zone represents the operating range of the geared motor.  
The horizontal line marks the maximum torque available in continuous duty cycle for a given life.  
For higher torque ratings, service life will be reduced.

Nominal speed and torque curves



## Dimensions

82 832 5



- ① 3 holes M5 at 120° depth 7.5 mm
- ② 8 holes M4 depth 7.5 mm
- ③ Lead length 200 mm
- ④ 7 mm across flats
- ⑤ 4 holes M5 on  $\varnothing 40$  depth 7 mm
- ⑥ (shaft pushed-in ←)

# D.C. geared motors with brushes

→ 15 Nm 22 to 42 Watts

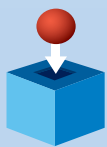
- Gearbox torque rating : 0.8 to 25 Nm.
- Associated DC motors : 15 to 90 watts.
- DC planetary geared motors with brushes
- Speed range : 11 to 454 rpm.



## Specifications

			22 Watts	42 Watts
Type			80 809 2	80 859 3
Voltages			12 V or 24 V	12 V or 24 V
Number of stages	Speed (rpm)	Ratios		
1	454	6.75	●	
	477	6.75		●
	122	25.0	●	
2	128	25.0		●
	69	46	●	
	70	46		●
3	33	93	●	
	34	93		●
	20	169	●	
	19	169		●
	12	308	●	
	11	308		●
General characteristics				
Motor			82 800 5	82 850 0
Gearbox			81 049 2	81 049 3
Max. torque Nm			0.8 (1 stage) 2 (2 stages) 4 (3 stages)	3 (1 stage) 7.5 (2 stages) 15 (3 stages)
Efficiency (%)			0.75 (1 stage) 0.7 (2 stages) 0.65 (3 stages)	0.8 (1 stage) 0.75 (2 stages) 0.7 (3 stages)
Radial load (dynamic) daN			1.5 (1 stage) 3 (2 stages) 4.5 (3 stages)	16 (1 stage) 23 (2 stages) 30 (3 stages)
Axial load dynamic (daN)			0.5 (1 stage) 1 (2 stages) 1.5 (3 stages)	5 (1 stage) 8 (2 stages) 11 (3 stages)
Output ball bearing			No	Yes
Sintered bronze output bearing			Yes	No

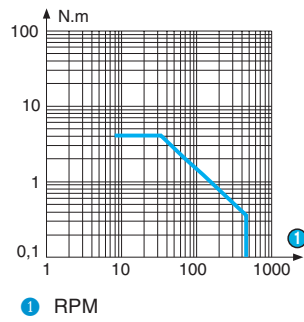
## Product adaptations



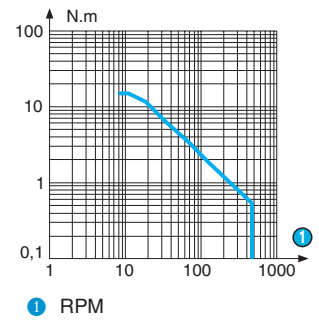
- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

80 809 2

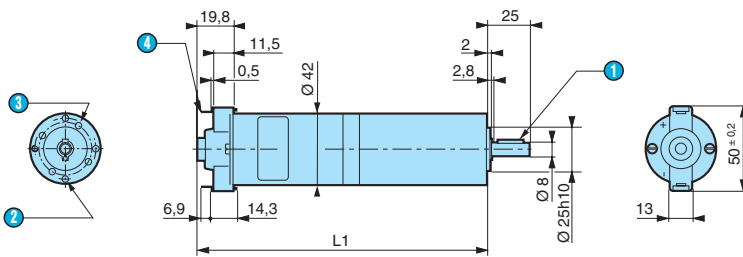


80 859 3



## Dimensions

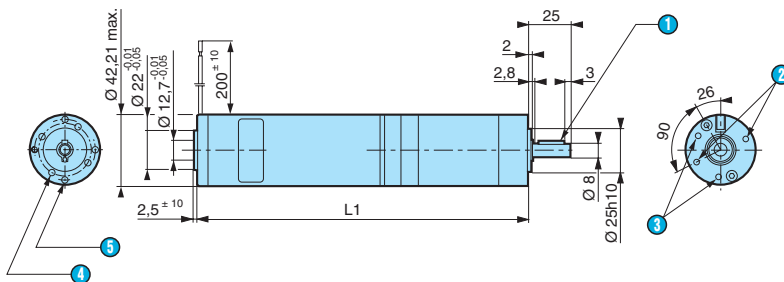
80 809 2



- ① Key 3 x 3 x 16
- ② 4 M4 x 10 on Ø 36
- ③ 4 holes for M3 self-tapping screws on Ø32, depth 10
- ④ 2 tags 4.75

L1 1 stage : 134 mm  
 L1 2 stages : 147 mm  
 L1 3 stages : 160 mm

80 859 3



- ① Key 3 x 3 x 16
- ② 2 M3 x 0.5 at 180° depth 5.5 on Ø32
- ③ 2 M3 x 0.5 at 120° depth 5.5 on Ø32
- ④ 4 M4 x 10 on Ø36
- ⑤ 4 M3 x 10 on Ø32

L1 1 stage : 162 mm  
 L1 2 stages : 175 mm  
 L1 3 stages : 188 mm

# D.C. geared motors with brushes

→ 25 Nm 67 to 195 Watts

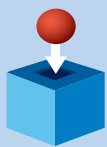
- Gearbox torque rating : 0.8 to 25 Nm.
- Associated DC motors : 15 to 90 watts.
- DC planetary geared motors with brushes
- Speed range : 11 to 454 rpm.



## Specifications

			67 Watts	195 Watts
Type			80 839 4	80 899 5
Voltages			12 V or 24 V	24 V
Number of stages	Speed (rpm)	Ratios		
1	410	6.75	●	
	474	6.75		●
2	110	25.0	●	
	128	25.0		●
	62	46	●	
3	70	46		●
	30	93	●	
	34	93		●
	18	169	●	
	19	169		●
	11	308	●	
	11	308		●
General characteristics				
Motor			82 830 5	82 890 0
Gearbox			81 049 4	82 849 5
Max. torque Nm			2 (1 stage) 5 (2 stages) 10 (3 stages)	4 (1 stage) 12 (2 stages) 25 (3 stages)
Efficiency (%)			0.75 (1 stage) 0.7 (2 stages) 0.65 (3 stages)	0.8 (1 stage) 0.75 (2 stages) 0.7 (3 stages)
Radial load (dynamic) daN			20 (1 stage) 32 (2 stages) 45 (3 stages)	20 (1 stage) 32 (2 stages) 45 (3 stages)
Axial load dynamic (daN)			6 (1 stage) 10 (2 stages) 15 (3 stages)	6 (1 stage) 10 (2 stages) 15 (3 stages)
Output ball bearing			Yes	Yes
Sintered bronze output bearing			No	No

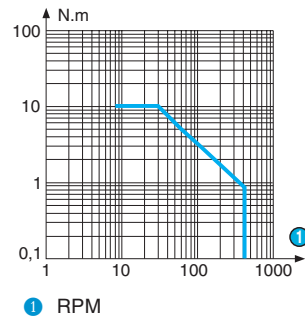
## Product adaptations



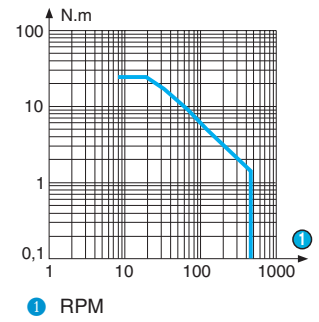
- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

80 839 4

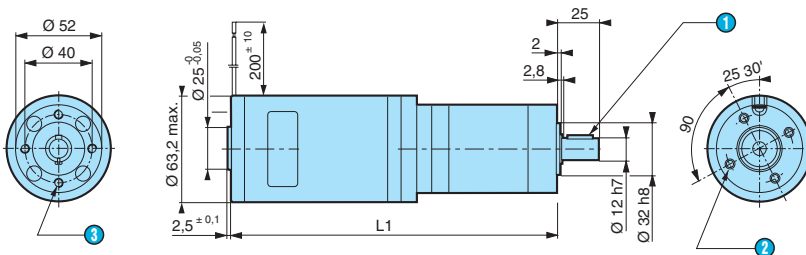


80 899 5



## Dimensions

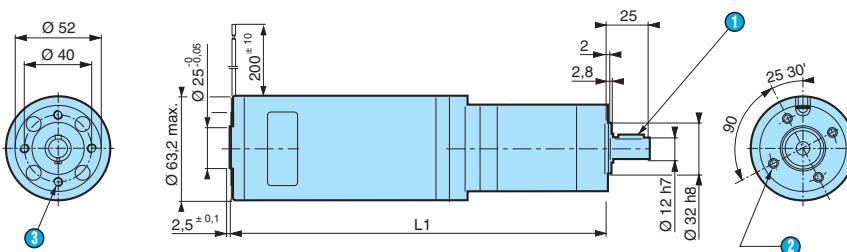
80 839 4



- ① Key 4 x 4 x 16
- ② 4 M5 x 0.86 h depth 7 on Ø 40
- ③ 4 M5 x 10

L1 1 stage : 159 mm  
 L1 2 stages : 173 mm  
 L1 3 stages : 187 mm

80 899 5



- ① Key 4 x 4 x 16
- ② 4 M5 x 0.86 h depth 7 on Ø 40
- ③ 4 M5 x 10

L1 1 stage : 184 mm  
 L1 2 stages : 198 mm  
 L1 3 stages : 212 mm