

# D.C. geared motors with brushes

→ 15 Nm 22 to 42 Watts

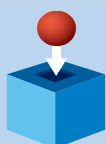
- Gearbox torque rating : 0.8 to 25 Nm.
- Associated DC motors : 15 to 90 watts.
- DC planetary geared motors with brushes
- Speed range : 11 to 454 rpm.



## 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

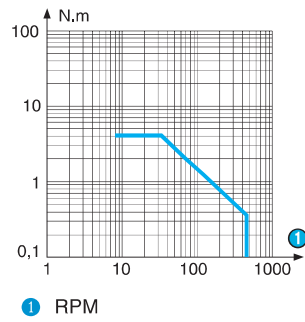
## Product adaptations



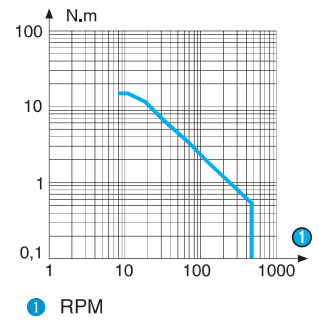
- Special supply voltages
- Special cable lengths
- Optional encoder
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear wheel material
- Special output bearings
- Special mounting plate

## Curves

80 809 2

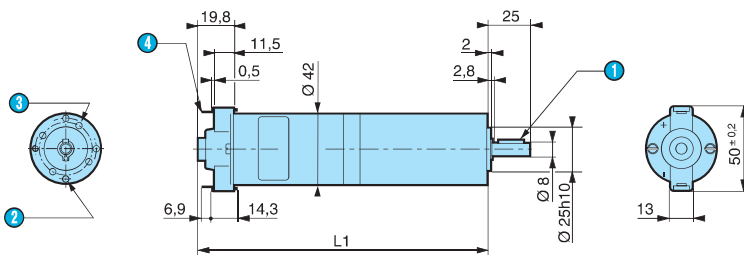


80 859 3



## Dimensions

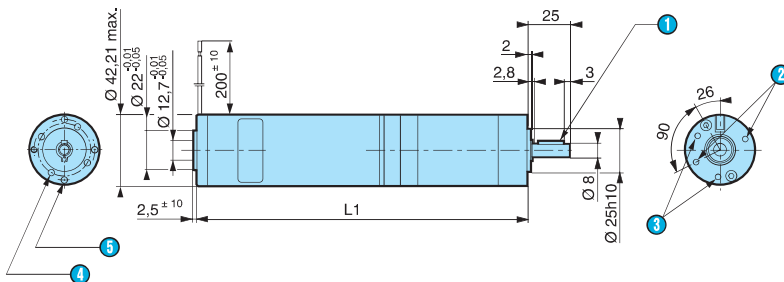
80 809 2



- 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