



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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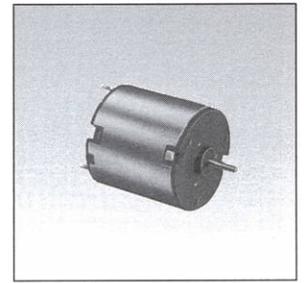
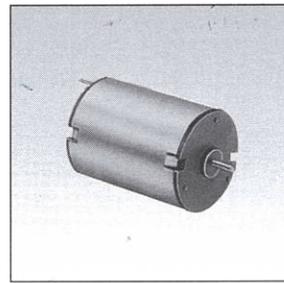
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# DC direct drive motors

- Maximum usable power : from 1 to 3.9 W
- Sintered bronze bearings lubricated for life
- Terminal connections 2.8 mm
- Interference suppression as standard on standard products



## Applications

- Printers
- Photocopiers
- Diaphragm pumps
- Detection systems
- Drives for rotary beacons

## Made to order products, available on request

- other supply voltages
- motors with 2 ball bearings
- shaft lengths at front and/or rear
- connection by radial tags or leads
- specific interference suppression
- encoder : 5 or 12 pulses per revolution

## Other information

Basic principles see page 1/4.  
Encoder connections see page 1/41.

## Types

	82 860 0	82 860 0	82 840 0	82 840 0
<b>Nominal voltage</b>	12 V	24 V	12 V	24 V
<b>Part numbers</b>	82 860 003	82 860 004	•	•

## Standard characteristics

	rpm	5000	5000	5000	5000
Speed	rpm	5000	5000	5000	5000
Absorbed power	W	1.2	1.92	0.96	1.44
Absorbed current	A	0.1	0.08	0.08	0.06

## Characteristics - nominal

	rpm	3700	3700	3700	3700
Speed	rpm	3700	3700	3700	3700
Torque	mN.m	7.7	7.7	2.2	2.2
Output power	W	3	3	0.9	0.9
Absorbed power	W	6.2	6	2.16	2.88
Absorbed current	A	0.43	0.26	0.18	0.11
Gearbox case temperature rise	°C	50	50	50	50
Efficiency	%	48	50	42	32

## General characteristics

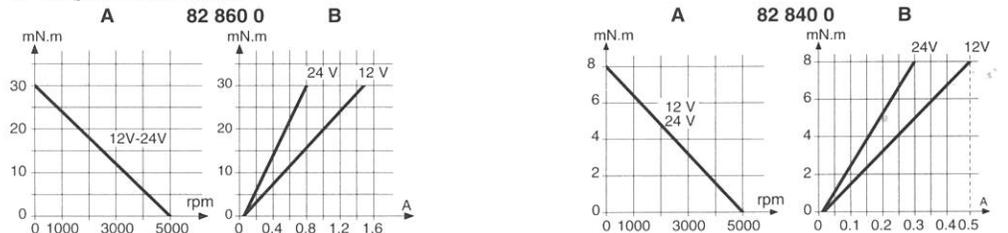
	B (130 °C)	B (130 °C)	B (130 °C)	B (130 °C)	
Insulation class (conforming to IEC 85)	B (130 °C)	B (130 °C)	B (130 °C)	B (130 °C)	
Degree of protection	IP40	IP40	IP40	IP40	
Maximum usable power	W	3.9	3.9	1	1
Start torque	mN.m	30	30	8	8
Start current	A	1.5	0.76	0.50	0.3
Resistance	Ω	8	32	24	80
Resistance : inductive	mH	10	41.6	32	104
Torque constant	Nm/A	0.0214	0.0448	0.019	0.033
Electrical time constant	ms	1.3	1.3	1.35	1.3
Mechanical time constant	ms	36	36	46	40
Thermal time constant	min	8	8	7	7
Inertia	g.cm <sup>2</sup>	19	19	9.5	9.5
Weight	g	96	95	68	68
No of segments		3	3	3	3
Life	h	3000	3000	3000	3000
Sintered bronze bearings	yes	yes	yes	yes	

## Options: for standard products non stocked

With magnetic encoder 1 pulse/revolution depending on the codes	82 860 501	82 860 502	-	-
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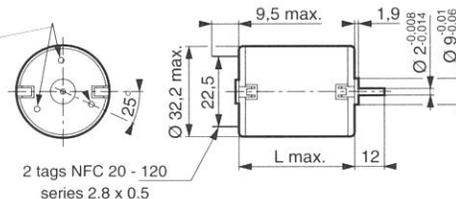
## A- Nominal speed and torque curves

### B- Torque/Current curves



## Dimensions

3 holes at 120° on Ø26 mm : use self tapping screws M2.2 ; screw depth max 6 mm



Type	L max. (mm)
82 860 0	44.6
82 840 0	34.6

## To order, specify :

Standard products	<b>3</b> Part number	Example : DC direct drive motor - 82 860 003		
Standard products, non stocked	<b>1</b> Type	<b>2</b> Voltage	<b>4</b> Option	Example : DC direct drive motor with magnetic encoder 1 pulse per revolution : 12 V : 82 860 501