

57 mm square and Ø 57 mm - 463 mNm continuous with Hall effect sensors 120 W nominal at 24 V and 4000 rpm Part number 80180506



- High power motors (up to 160 W continuous at 24 VDC)
- Suitable for voltages between 6 and 75 VDC
- Ideal for applications where the control electronics have to be remote due to the high ambient temperature

Part numbers

	Туре	Туре	References
80180506	120 W nominal at 24 V and 4000 rpm	801805	Without option

Specifications

Gonoral characteristics

General characteristics	
Max. speed (rpm)	10000
Torque peak in (mNm)	763*
Maximum continuous torque (mNm)	307**
Motor constant (mNm/W ^{1/2})	70
Electrical time constant (ms)	2,1
Mechanical time constant (ms)	2,1
Energy losses at peak torque (W)	117
Torque/speed factor - zero impedance (mNm/ (rad/s))	4,96
Friction torque (mNm)	25
Rotor inertia (gcm ²)	105
Thermal resistance (°C/W)	3,8
Max. coil temperature (°C)	120
Integrated temperature sensor	Yes
Number of phases	3 (delta config)
Number of poles	4
Ambient operating temperature (°C)	-40 →70
Dielectric strength at 500 V DC (MΩ)	1000
Service life (h)	20000
Output ball bearing	Yes
Weight (g)	1300
Length (mm)	94
Protection index	IP54

Comments

Standard winding

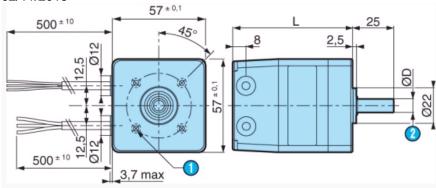
0,36 ±12,5 %
6,5
18
42,4 ±10 %
0,0424
4,4 ±10 %
0,76 ±30 %

Motor mounted on aluminium plate 254 x 254 x 10 mm thick to encourage heat flow

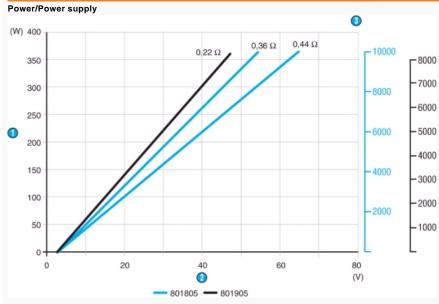
- * 10 sec. at 25 °C ambient temperature
 ** 25 °C ambient temperature and 120 °C winding temperature

801805

02/11/2015 www.crouzet.com



N°	Legend				
0	4 holes M5 over Ø 40 mm - depth of thread : 4.5 mm - depth of hole 6.6 mm				
2	D: Ø8 - 0.010 mm - 0.020 mm				
	L : 94.2 mm max.				



Nº	Legend
0	Nominal power
②	Supply voltage
③	Speeds (rpm)

Forward

Hall			0			
1	2	3	1	2	3	
1	0	0	0V	+V ===	-	ı
1	1	0	0V	-	+V ===	
0	1	0	-	0V	+V ===	
0	1	1	+V ===	OV	-	
0	0	1	+V ===	-	0V	
1	0	1	-	+V ===	0V	\

Nº	Legend
1	Winding

Reverse

	Hall			0	
1	2	3	1	2	3
1	0	0	+V ===	OV	-
1	0	1	-	0V	+V ===
0	0	1	0V	-	+V ===
0	1	1	OV	+V ===	-
0	1	0	-	+V ===	0V
1	1	0	+V ===	-	0V

N°	Legend
0	Winding

Connections
Part number 801805

Wire colour	Connection name	Wire gauge (AWG)
Black	Winding 1	20
Brown	Winding 2	20
Red	Winding 3	20
Red	+ Hall power supply	24
Black	- Hall power supply (return)	24
Yellow	Sonde temp.	24
Orange	Hall 1	24
Brown	Hall 2	24
Green	Hall 3	24

 $Hall\ effect: Voltage\ range: 4.5\ 24\ VDC\ Max.\ current: 20\ mA\ Type\ of\ output: NPN\ open\ collector\ Not\ protected\ against\ connection\ errors$

For other standard windings visit www.crouzet.com

Precautions for use

Not protected against connection errors

Product adaptations



- Special shafts

- Lead length
 C12 connector built in
 200, 500, 1000 points/revolution encoder

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