

# DC coreless motor 22mm/直流空心杯馬達 22mm

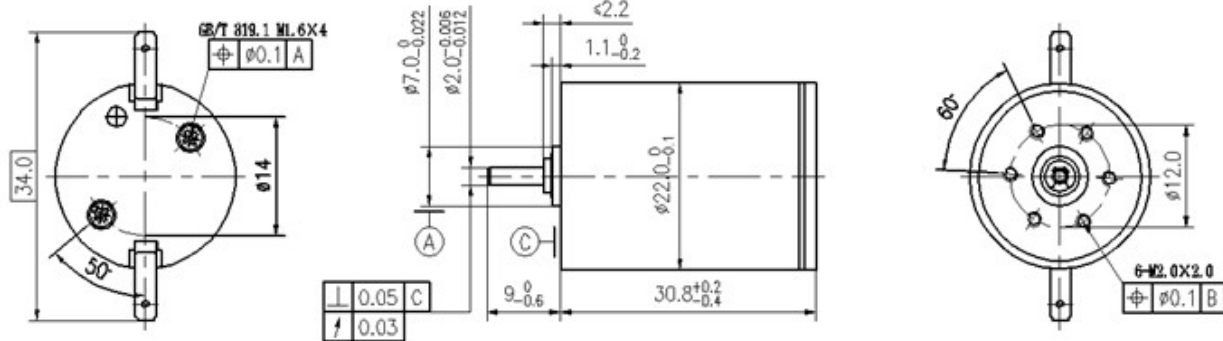
Ø22mm, graphite brushes/Ø22mm, 石墨電刷

Typical Applications Survey Instrument, Coreless Power Tools

Medical Equipment,

典型應用

測繪工具, 電動工具, 醫療設備



2230 Series / 2230系列	Model/型號	001	002	003	004	005	006	007
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## Motor data (25°C)/ 運行參數 (25°C)

1 Assigned power/標稱功率	W	7.0	7.3	5.4	2.7			
2 Nominal voltage/額定電壓	Volt	12	15	24	36			
3 Terminal resistance/端電阻 ±15%	Ohm	3.78	5.31	16.8	74.60			
4 No-Load speed/空載轉速 ±12%	rpm	8,240	8,300	8,450	8,450			
5 No-Load current/空載電流 ≤150%	mA	36.0	30.0	16.0	5.0			
6 Speed constant/速度常數	rpm/V	687	553	352	235			
7 Torque constant/轉矩常數	mNm/A	13.76	17.08	26.83	40.28			
8 Starting current/啟動電流	mA	3,175	2,825	1,429	483			
9 Stall torque/堵轉轉矩	mNm	43.67	48.26	38.33	19.44			
10 Mechanical time constant/機械時間常數	ms	10	9	10	20			
11 Rotor inertia/轉動慣量	gcm <sup>2</sup>	5.200	4.930	4.240	4.280			
12 Max. efficiency/最大效率	%	80	80	80	81			

## Limits for continuous operating/電機連續運行區域上限

1 Max. continuous current/最大連續工作電流	mA	785	635	282	96			
2 Max. continuous torque/最大連續工作轉矩	mNm	10.80	10.85	7.57	3.87			
3 Nominal speed/最大連續工作電流下的轉速	rpm	6,202	6,434	6,782	6,769			
4 Max. continuous power 最大連續輸出功率	W	7.01	7.305	5.37	2.740			

## Additional information/其它相關信息

- Axial play (measured at 4N axial force)/軸向間隙 (沿軸向施加4N力時的間隙) 0.05~0.15 mm
- Max. sleeve bearing loads/滑動軸承最大載荷
  - Axial (dynamic)/軸向(動態) 1.0N
  - Radial (4 mm from jamming ring)/徑向 (卡簧外4mm) 2.7N
  - Force for press-fits (static)/最大允許安裝力(靜態) 80N
- Max. radial play sleeve bearing/滑動軸承最大徑向間隙 0.02 mm
- Ambient temperature range/環境溫度範圍 -20~+65°C
- Max. rotor temperature/轉子承受最高溫度 +85°C
- Weight of motor/電機重量 56g
- Options: gearbox and ball bearings/其它可選項: 減速器和滾動軸承



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