

PERMANENT MAGNET DC SERVO MOTOR SPECIFICATION

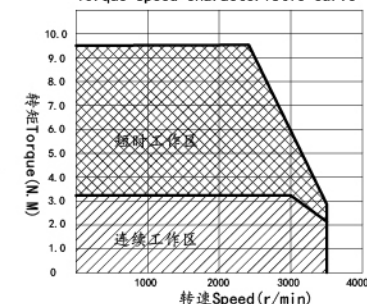
Technical drawing of a DC servo motor assembly. The drawing includes the following details:

- Dimensions:**
 - Top cable length: 500 ± 10
 - Right cable length: 300 ± 10
 - Motor body width: 127 ± 1
 - Mounting flange diameter: 35 ± 0.5
 - Flange hole offset from center: 25 ± 0.1
 - Flange thickness: $9_{-0.013}^0$
 - Flange hole diameter: $\varnothing 0.04$
 - Bottom mounting tab height: $3_{-0.05}^0$
 - Bottom mounting tab width: 0.04
- Labels and Markings:**
 - DC SERVO MOTOR
 - MODEL: TSNA-08G3230A-48
 - Tn: 3. 20N.m Pn: 1.0KW
 - In: 26. 4A
 - S/N: xxxxx
 - CODE128 A
 - www.surmin.cn/
 - Warning symbols: No fire, No open flame, No smoking.
 - Text: 禁止烟火 (No fire), 禁止明火 (No open flame), 禁止吸烟 (No smoking).
- Other Features:**
 - A circular feature labeled 'B' on the flange.
 - An arrow pointing right labeled 'B' near the top cable.

Technical drawing of a square flange with a central vertical shaft. The flange has a square outer profile with rounded corners, a central circular hub with a vertical shaft, and four mounting holes. Dimensions include a square outer side of 80, a central hole diameter of 90, and four mounting holes of diameter 6. A 45-degree chamfer is indicated on the top of the central shaft. The text "通孔均布" (Holes are evenly distributed) is present.

SECTION A-A

转矩转速特性曲线
Torque speed characteristic curve



使用说明:
Instructions

使用环境温度-20—40° C不结冰

Operating ambient temperature $-20-40^{\circ}\text{C}$ no ice

使用环境湿度20%--80%RH不结露

Operating environment humidity 20%—80%rh no condensation

1000m以下使用, 1000m以上请降额使用, 具体参照海拔降额曲线

For use below 1000m, please reduce the rating for use above 1000m.

Refer to the altitude derating curve for details

电源线端子拉脱力 $\leq 400\text{N}$

Pull off force of power line terminal is less than or equal to 400N

编码器线端子拉脱力 $\leq 13\text{N}$

Pull off force of encoder line terminal is less than or equal to 13 N

B向视图

塑壳: AMP172169-1

端子: 170359-1

参数列表

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parameters List
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额定电压 Rated Voltage (V)	48	线电阻 Line-Line Resistance (Ω)	0.047±10% (20℃)	17位多圈磁编接线顺序 17-bit multi-turn magnetic encoder wiring sequence								电机绕组接线顺序 Motor winding wiring sequence					
额定功率 Rated Power (W)	1000	线电感 Line-Line Inductance (mH)	0.2±20% (20℃)	序号 Serial number	1	2	3	4	5	6	7	序号 Serial number					
额定电流 Rated Current (A)	26.4	转动惯量 Rotor inertia (×10 ⁻⁴ kg/m ²)	2.11	颜色 Color	屏蔽 Screening	红 Red	白 White	黄 Yellow	绿 Green	蓝 Blue	黑 Black	颜色 Color	红 Red	白 White	黑 Black	黄绿 Yellow/Green	
峰值电流 Peak Current (A)	73.2	绝缘等级 Insulation Class	F	定义 Definition	PE	VCC	GND	SD+	SD-	BAT+	BAT-	定义 Definition	U	V	W	PE	
额定转速 Rated Speed (rpm)	3000	绝缘电阻 Insulation resistance	DC500V ≥10M☑	CTQ SIGN: ⚠ Customer ⚠ Process ⚠ Law						骁鸣智能科技（广州）有限公司							
最高转速 Peak Speed (rpm)	3500	防护等级 Protection class	IP65	材料符合ROHS要求All Material Are To Be RoHS Compliant													
额定转矩 Rated Torque (N.M)	3.20	允许最大径向负载Maximum allowable radial load(N)	390	NAMES	SIGNATURE		DATE	Unspecified tolerance		视角 FIRST ANGLE METHOD	比例 SCALE	单位 UNIT	变更标识 EON SIGN	名称 TITLE	TSNA-08G3230A-48		
峰值扭矩 Peak Torque (N.M)	9.60	允许最大轴向负载Maximum allowable axial load (N)	140	设计 DESIGN			2022 7.4	常规公差:Tolerances 角度Angles±0.1° 倒角Chamfer±0.3 Unit:mm GB/T1804-M ISO2768-1 ClassM			1:1	mm	*	图号 DWG.NO	/		
反电势 Voltage Constant (V/Krpm)	8	重量 Weight (kg)	2.95	标准化 STANDARD						件号 PART NUMBER	1	版本 REV	A	表单编号 Form Code			
力矩系数Torque Coefficient (N.M/A)	0.12			审核 CHECK													