

Brushless DC Motors 无刷直流电机

80BSA Series

General Specification

Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.025mm /460g
End play 轴向间隙	0.025mm /400g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC

Performance Data

Model 型号	Units	80BSA098D025X-01	80BSA122D030X-01	80BSA150I020X-01	80BSA160I025X-01
Number of poles 极数			8		
Number of phase 相数			3		
Rated voltage 额定电压	VDC	48	48	310	310
Rated speed 额定转速	RPM	2500	3000	2000	2500
Continuous stall torque 持续堵转转矩	N.m	1.56	2.9	4.2	4.8
Rated torque 额定转矩	N.m	1.3	2.4	3.5	4
Rated power 额定功率	W	340	754	733	1047
Peak torque 峰值扭矩	N.m	3.8	7.1	10.5	12
Peak current 峰值电流	A	28.3	62.8	9.5	13.5
Torque constant 转矩常数	Nm/A	0.121	0.068	0.042	0.121
Back E.M.F 反电势	V/KRPM	10	8.8	77.5	65.7
Rotor inertia 转动惯量	Kg.cm ²	1.05	1.82	2.63	2.97
Body length 电机长度	mm	98	122	150	160
Voltage range 电压范围	VDC		12~310		
Speed Range 转速范围	RPM		1000~3000		
Weight 重量	Kg	3	3.5	4.1	4.3

Dimensions in mm

