

# Brushless DC Motors 无刷直流电机

## 110BSA 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	0.02mm /460g
End play 轴向间隙	0.08mm /450g
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	100MΩ min., 500VDC

### Performance Data

Model 型号	Units	110BSA125 I030X-01	110BSA155 I030X-01	110BSA185 I030X-01	110BSA210 I030X-01
Number of poles 极数				8	
Number of phase 相数				3	
Rated voltage 额定电压	VDC	310	310	310	310
Rated speed 额定转速	RPM	3000	3000	3000	3000
Continuous stall torque 持续堵转转矩	N.m	2.2	4.8	7.164	8.592
Rated torque 额定转矩	N.m	2	4	6	7.16
Rated power 额定功率	W	625	1250	1885	2249
Peak torque 峰值转矩	N.m	6	12	17.91	21.48
Peak current 峰值电流	A	8	14.7	26	31
Torque constant 转矩常数	Nm/A	0.77	0.77	0.689	0.689
Back E.M.F 反电势	V/KRPM	54.8	54.8	54.8	54.8
Rotor inertia 转动惯量	g.cm <sup>2</sup>	1.9	3.3	5	5.9
Body length 电机长度	mm	125	155	185	210
Voltage range 电压范围	VDC		48 ~ 310		
Speed Range 转速范围	RPM		1000 ~ 3000		
Weight 重量	Kg	4.8	5.2	5.5	6

### Dimensions in mm

