

Brushless DC Motors 无刷直流电机

28BYA Series

General Specification

Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120Deg.Electrical angle
Radial play 径向间隙	0.02mm/450g
End play 轴向间隙	0.08mm/450g
Max.radial force 径向最大承受力	15N @ 10mm from the flange
Max.axial force 轴向最大承受力	10N
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	28BYA026A080X-01	28BYA038B031X-01	28BYA077B031X-01
Number of poles 极数	\		4	
Number of phase 相数	\		3	
Rated voltage 额定电压	VDC	15	24	24
Rated speed 额定转速	RPM	8000	3100	3100
Continuous stall torque 持续堵转转矩	mN.m	8.4	19.2	60.00
Rated torque 额定转矩	mN.m	7	16	50.00
Rated power 额定功率	W	6	5.2	16
Peak torque 峰值扭矩	mN.m	21	48	150.00
Peak current 峰值电流	A	1.53	0.87	2.66
Torque constant 转矩常数	Nm/A	0.014	0.055	0.057
Back E.M.F 反电势	V/KRPM	1.5	5.1	5.10
Rotor inertia 转动惯量	g.cm ²	1.23	2.12	5.98
Body length 电机长度	mm	26	38	77
Voltage range 电压范围	VDC		12~36	
Speed Range 转速范围	rpm		3000~8000	
Weight 重量	Kg	0.06	0.08	0.280

Dimensions in mm

