

# Brushless DC Motors 无刷直流电机

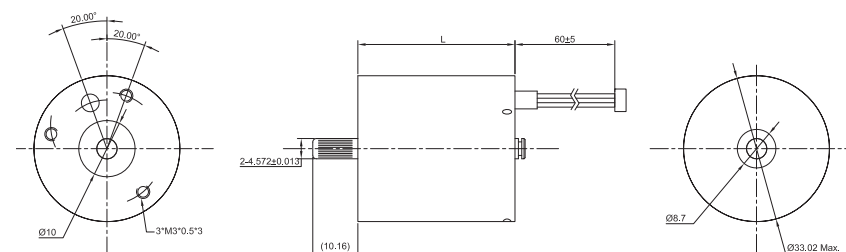
## 33BYA Series



### 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 /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	100MΩ min., 500VDC

### Dimensions in mm



### Performance Data

Model 型号	Units	33BYA036B150X-01	33BYA036B200X-01	33BYA036A200X-01
Number of poles 极数			4	
Number of phase 相数			3	
Rated voltage 额定电压	VDC	24	24	12
Rated speed 额定转速	RPM	15000	20000	20000
Continuous stall torque 持续堵转转矩	mN.m	14.16	14.16	14.16
Rated torque 额定转矩	mN.m	11.8	11.8	11.8
Rated power 额定功率	W	18.5	25	25
Peak torque 峰值转矩	N.m	35.4	35.4	35.4
Peak current 峰值电流	A	3	4.05	8.1
Torque constant 转矩常数	Nm/A	$11.8 \times 10^{-3}$	$9 \times 10^{-3}$	$4.5 \times 10^{-3}$
Back E.M.F 反电势	V/KRPM	1.5	1.09	0.54
Rotor inertia 转动惯量	g.cm <sup>2</sup>	2.33	2.33	2.33
Body length 电机长度	mm		36	
Voltage range 电压范围	VDC		12~24	
Speed Range 转速范围	RPM		4000~22000	
Weight 重量	Kg	0.1	0.1	0.1