



Parameter	Sym.	Test Conditions	Min.	Type	Max.	Units
Operating Temperature	Ta		-40	/	105	°C
Coil Resistance	Rb		260	280	300	Ω
Operating Current	Im	fz=200Hz	/	15	20	mA
Magnetic Saturation Voltage	Ubs		/	/	9	V
Start-Stop Frequency	fss	JL=2E-7Kg/m*2	/	/	200	Hz
Maximum Driving Frequency	fm	JL=2E-7Kg/m*2	/	/	600	Hz
Dynamic Torque	M200	fz=200Hz	0.9	1.1	See	mNm
	M400	fz=400Hz	0.75	0.9	fig.3	mNm
Static Torque	Ms	Ub=5V	3.5	4.0		mNm
Backlash	σ		0.5	0.7	1.0	Degree
Axial Push-on Force on shaft	FA		100	120	/	N
Axial Pull-off Force on shaft	Fa		80	100	/	N
Radial Force on shaft	Fp		12	15	/	N
Imposed Acceleration	αp		/	1,000	/	Rad/s*2
Holding Torque on shaft	Th		90	120	/	mNm
Maximum Inertia of the load on shaft	Jm	see Table 4	/	/	/	Kgm*2
Noise Lever	SPL	see Fig.14	/	38	42	dBA
Angle of Rotation	β		/	/	320	Degree

Tamb=25°C, Ub=5V, unless otherwise specified

BKA30-R6AL						DWG NO.	
PART NAME						Motor Assembly	
WEIGHT						g	
QUANTITY						1	
SCALE						1:1	
MARK NUMBER	DIVISION	ECN NO.	SIGNATURE	DATE	MATERIAL	SHEET 1 OF 1	
DESIGN			Q A			UNLESS OTHERWISE SPECIFIED	
CHECK			APPV'D			TOLERANCES ARE LINEAR 0.5 ± 0.02 5.10 ± 0.03 >10 ± 0.05 ANGULAR ± 0.3deg.	
ENGINEERING			DATE			ShenZhen Bactrianus Motor Co. LTD	