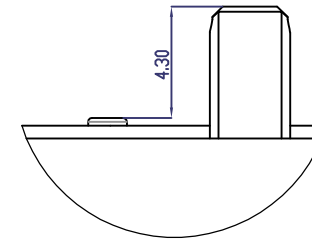


UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETRES
SURFACE FINISH:
REMOVED ALL BURRS
AND SHARP EDGES
SURFACE ROUGHNESS

1.6



局部视图 AB
比例 5:1

Electrical and Mechanical Characteristics

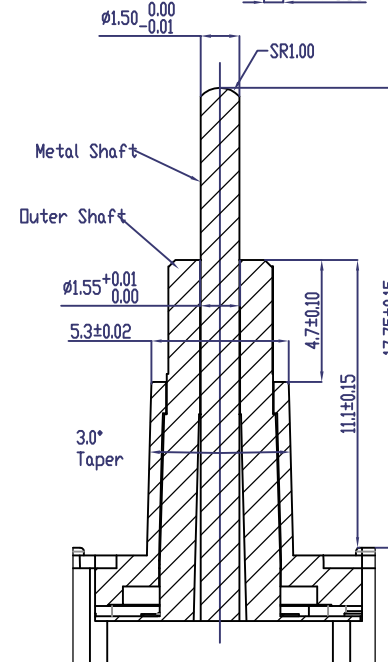
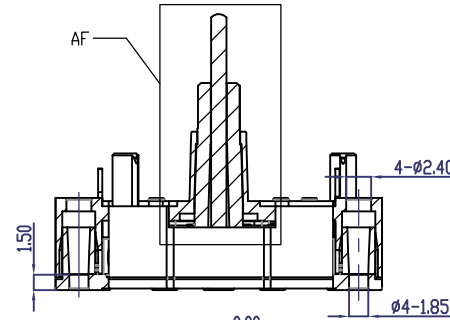
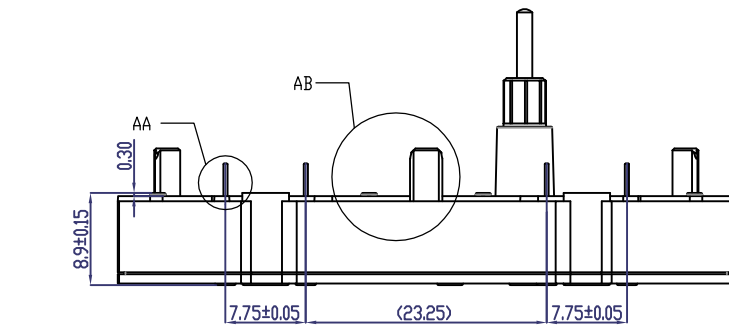
Symbol Definition: f_z - testing frequency, U_b - Driving Voltage

Testing Conditions: $T_{amb}=25^{\circ}\text{C}$, in partial step mode @ Max. voltage 50V, unless other specified

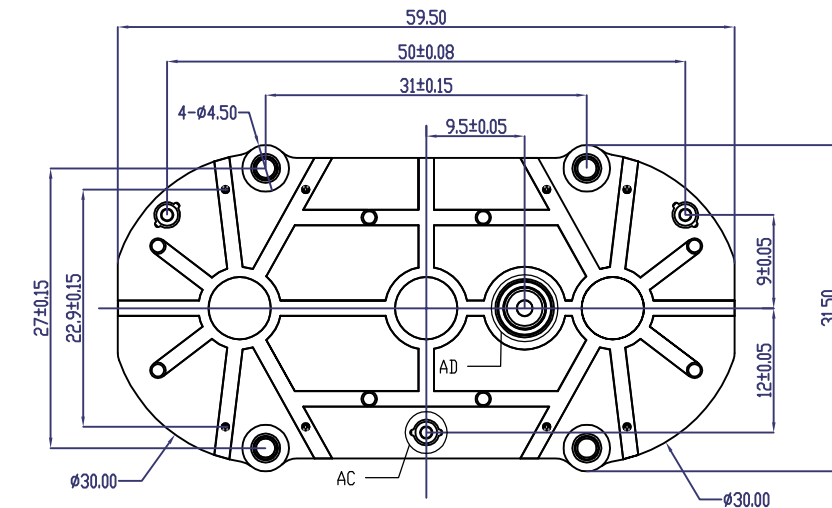
Parameter	Sym.	Test Conditions	Min.	Type	Max.	Units
Operating Temperature	T_a		-40		105	$^{\circ}\text{C}$
Coil Resistance	R_b		260	280	300	Ω
Operating Current	I_m	$f_z=200\text{Hz}$			20	mA
Magnetic Saturation Voltage	U_{bs}				9	V
Start-Stop Frequency	f_{ss}	$I_b=2 \times 10^{-3} \text{ kg/m}^2$			200	Hz
Maximum Driving Frequency	f_m	$I_b=2 \times 10^{-3} \text{ kg/m}^2$			600	Hz
Dynamic Torque	Outer Shaft	$M200$	$f_z=200\text{Hz}$	0.7	0.8	mNm
	Meter Shaft			1.05	1.2	mNm
	Outer Shaft	$M400$	$f_z=400\text{Hz}$	0.5	0.6	mNm
	Meter Shaft			0.75	0.9	mNm
Static Torque	Outer Shaft	M_s	$U_b=5\text{V}$	3.5	4.0	mNm
	Meter Shaft			3.5	4.0	mNm
Angle of Rotation	Outer Shaft	β			360	Degree
	Meter Shaft				360	Degree
Gear Clearance		σ		0.7	1.2	Degree
Axial Force(Push)	Outer Shaft	F_A			60	N
	Meter Shaft				180	N
Axial Force(Pull)	Outer Shaft	F_s			60	N
	Meter Shaft				70	N
Perpendicular Force	Outer Shaft	F_p			5	N
	Meter Shaft				13	N
External Torque	Outer Shaft	T_b		110		mNm
	Meter Shaft			100		mNm
Angular Acceleration		α_p			1000	Rad/S^2
Noise Level		SPL	$f_z=200\text{Hz}$ or 400Hz	40	50	dB(A)

Absolute Maximum Ratings

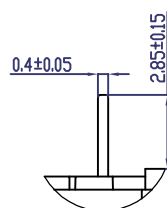
Parameter	Symbol	Conditions
Driving Voltage	U_b	10V
ESD Tolerance	U_{ESD}	10000V
EMI Tolerance (1 kHz ; AM 80%; 100 KHz - 2 GHz)	E	80V/n
Soldering Temperature (≤ 10 sec)	T_s	260 $^{\circ}\text{C}$



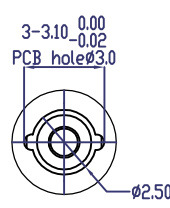
局部视图 AE
比例 5:1



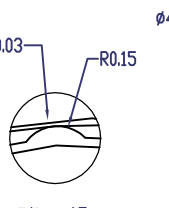
局部视图 AD
比例 8:1



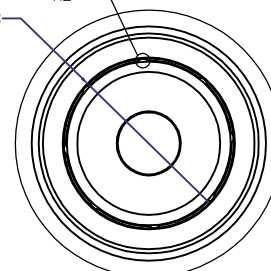
局部视图 AA
比例 5:1



局部视图 AC
比例 5:1



局部视图 AE
比例 50:1



局部视图 AD
比例 8:1

						DKA30D-R5C		DWG NO.				
						PART NAME	Motor Assembly	WEIGHT		REV.	01	
								QUANTITY	1	SHEET 1 OF 1		
								MATERIAL		SCALE	2:1	
MARK	NUMBER	DIVISION	ECN NO.	SIGNATURE	DATE							
DESIGN		傅平		Q A		 Bactrianus Motor Limited					UNLESS OTHERWISE SPECIFIED	
CHECK				APPV'D							TOLERANCES ARE LINEAR 0-5 10/2 5-50 10/2 50-100 10/2	
ENGINEERING				DATE							ANGULAR 10/30g	