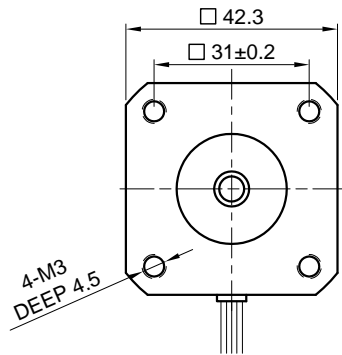
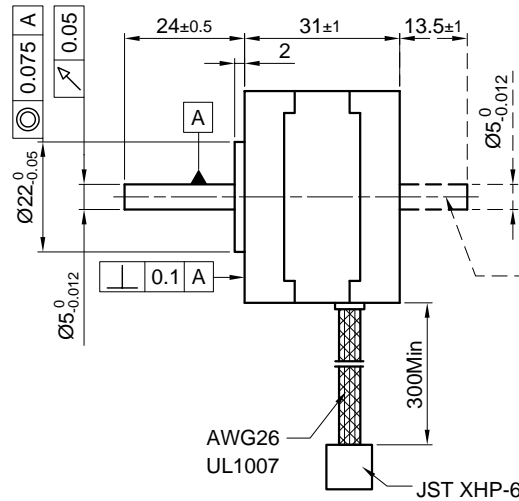


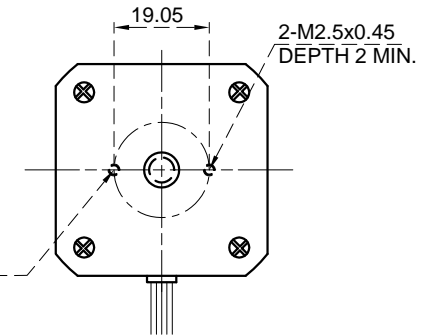
Front view and mounting



Side view

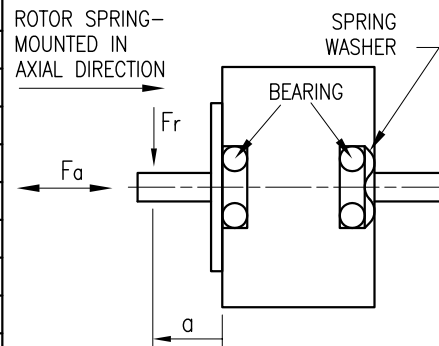


Rear view



SPECIFICATION	CONNECTION	
	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	10.5	15.0
AMPS/PHASE	0.35	0.25
RESISTANCE/PHASE (Ohms)@25°C	30±15%	60±15%
INDUCTANCE/PHASE (mH) @1KHz	21.7±20%	86.8±20%
HOLDING TORQUE (Nm) [lb-in]	0.16 [1.416]	0.226 [2.0]
DETENT TORQUE (Nm) [lb-in]	5.9x10 ⁻³ [5.222x10 ⁻²]	
STEP ANGLE (°)	1.8	
STEP ACCURACY (NON-ACCUM)	±5%	
ROTOR INERTIA (Kg-m ²) [lb-in ²]	3.8x10 ⁻⁶ [1.3x10 ⁻²]	
WEIGHT (Kg) [lb]	0.2 [0.44]	
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)		
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]		
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		
INSULATION CLASS B 130° [266°F]		
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)		

PERMISSIBLE RADIAL+AXIAL FORCE



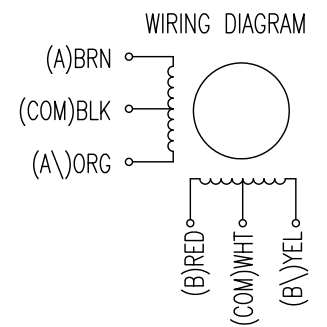
AXIAL-FORCE Fa (N)	Fa=7			
	5	10	15	20
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	58	36	26	20
		AXIAL	RADIAL	
SHAFT PLAY (mm)	0.08		0.02	
AT LOAD MAX: (N)	4.5		4.5	

TYPE OF CONNECTION (EXTERN)	MOTOR		
	UNIPOLAR	BIPOLAR	
	1WINDING	SERIAL	CONNECTOR PIN NO. LEADS WINDING
A ---	A ---	A ---	1 BRN A
COM ---	COM ---		5 BLK COM
A\ ---		A\ ---	3 ORG A\
B ---	B ---	B ---	2 RED B
COM ---	COM ---		6 WHT COM
B\ ---		B\ ---	4 YEL B\

for >speed ←
for <speed ←

FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\	
1	+	+	-	-	CCW
2	-	+	+	-	
3	-	-	+	+	CW
4	+	-	-	+	



REV	DESCRIPTION	DATE	APVD	NANOTEC:	SCALE	FREE	APVD	S.H.a.	26.02.07	STEPPING MOTOR	
					X	±0.5		CHKD			
					1PL	±0.2		DRN	J.W.	29.11.06	DWG.NO
					2PL	±0.1		SIGNATURE		DATE	
					ANGLE	±30'					ST4118S0406