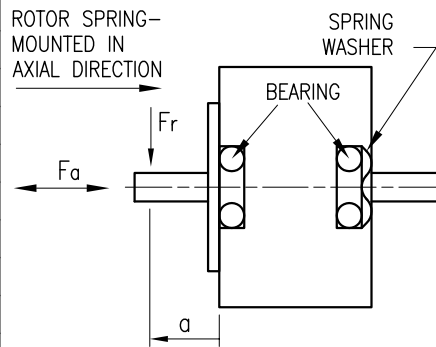


SPECIFICATION	CONNECTION	
	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	4.0	5.6
AMPS/PHASE	1.2	0.85
RESISTANCE/PHASE (Ohms)@25°C	3.3±15%	6.6±15%
INDUCTANCE/PHASE (mH) @1KHz	4.3±20%	17.2±20%
HOLDING TORQUE (Nm) [lb-in]	0.35 [3.1]	0.495 [4.381]
DETENT TORQUE (Nm) [lb-in]	1.37x10 ⁻² [0.1212]	
STEP ANGLE (°)	1.8	
STEP ACCURACY (NON-ACCUM)	±5%	
ROTOR INERTIA (Kg-m ²) [lb-in ²]	8.2x10 ⁻⁶ [2.8x10 ⁻²]	
WEIGHT (Kg) [lb]	0.34 [0.75]	
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



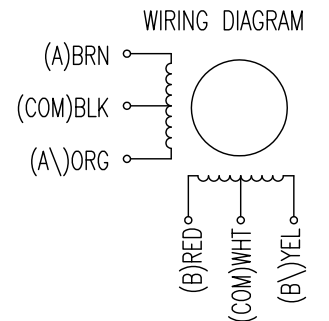
AXIAL-FORCE Fa (N)	Fa=7			
	5	10	15	20
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	58	36	26	20
		AXIAL	RADIAL	
SHAFT PLAY (mm)	0.08	0.02		
AT LOAD MAX: (N)	4.5	4.5		

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

for >speed ←
for <speed ←

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

STEP	A	B	A\	B\	CCW
1	+	+	-	-	↓
2	-	+	+	-	↑
3	-	-	+	+	↓
4	+	-	-	+	↑



REV	DESCRIPTION	DATE	APVD	NANOTEC:	SCALE	FREE	APVD	S.H.a.	26.02.07	STEPPING MOTOR	
				ST4118L1206	X	±0.5	CHKD				
					1PL	±0.2	DRN	J.W.	29.11.06	DWG.NO	
					2PL	±0.1	SIGNATURE				
					ANGLE	±30'					ST4118L1206