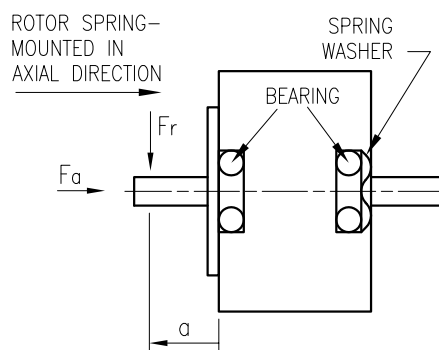


SPECIFICATION	CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR	
			SERIAL	PARALLEL
VOLTAGE (VDC)		3.0	4.25	2.15
AMPS/PHASE		4.0	2.83	5.66
RESISTANCE/PHASE (Ohms)@25°C		0.75±15%	1.5±15%	0.38±15%
INDUCTANCE/PHASE (mH) @1KHz		4.2±20%	16.8	4.2±20%
HOLDING TORQUE (Nm) [lb-in]		2.6 [23.01]	3.68 [32.57]	3.68 [32.57]
DETENT TORQUE (Nm) [lb-in]		0.09 [0.797]		
STEP ANGLE (°)		1.8		
STEP ACCURACY (NON-ACCUM)		±5%		
ROTOR INERTIA (Kg-m ²) [lb-in ²]		1.1x10 ⁻⁴ [0.376]		
WEIGHT (Kg) [lb]		2.65 [5.843]		
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° [260°F]				
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASING)				
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)				

PERMISSIBLE RADIAL+AXIAL FORCE

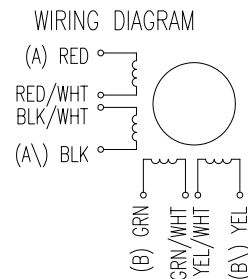


	AXIAL-FORCE Fa (N)			
	5	10	15	20
FACTOR	Fa=25			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	228	169	139	100
		AXIAL	RADIAL	
SHAFT PLAY (mm)		0.075	0.025	
AT LOAD MAX: (N)		10	5.0	

UNIPOLAR	TYPE OF CONNECTION (EXTERN)			MOTOR	
	1WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL	LEADS	WINDING
A	A	A	A	RED	A
COM				RED/WHT	
A\		A\	A\	BLK/WHT	A\
B	B	B	B	BLK	B
COM				GRN	
B\		B\	B\	GRN/WHT	B\
				YEL/WHT	
				YEL	

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.K.	20.07.06	STEPPING MOTOR
				SH8618M4008	X	±0.5	CHKD			
					1PL	±0.2	DRN	J.W.	20.07.06	DWG.NO
					2PL	±0.1	SIGNATURE		DATE	SH8618M4008
					ANGLE	±30'				