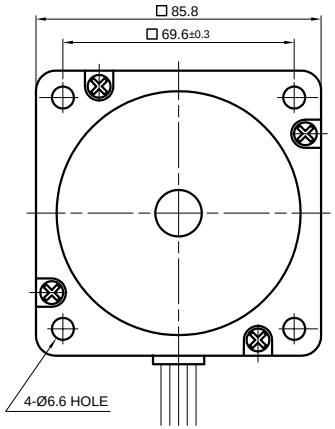
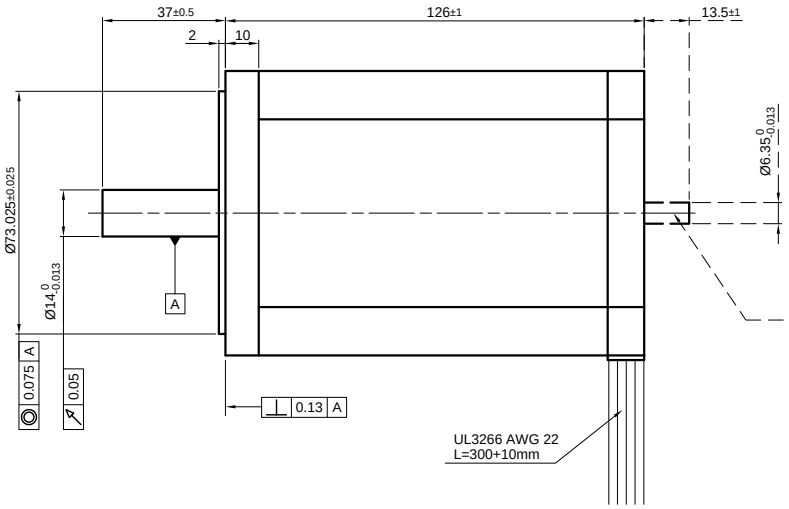
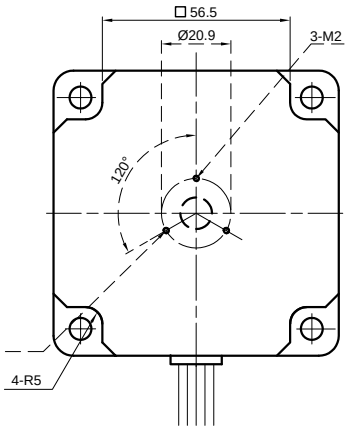
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	3.02	4.27	2.18
AMPS/PHASE	6.7	4.74	9.47
RESISTANCE/PHASE (Ohms)@25°C	0.45±15%	0.9±15%	0.23±15%
INDUCTANCE/PHASE (mH) @1KHz	2.7±20%	10.8±20%	2.7±20%
HOLDING TORQUE (Nm) [lb-in]	6.6 [58.41]	9.33 [82.57]	9.33 [82.57]
DETENT TORQUE (Nm) [lb-in]	0.198 [1.752]		
STEP ANGLE (°)	1.8		
STEP ACCURACY (NON-ACCUM)	±5%		
ROTOR INERTIA (Kg-m^2) [lb-in^2]	4.0x10^{-4}[1.366]		
WEIGHT (Kg) [lb]	3.95 [8.71]		

HOUSING TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)

AMBIENT TEMPERATURE −10°~ 50°C [14°F ~ 122°F]

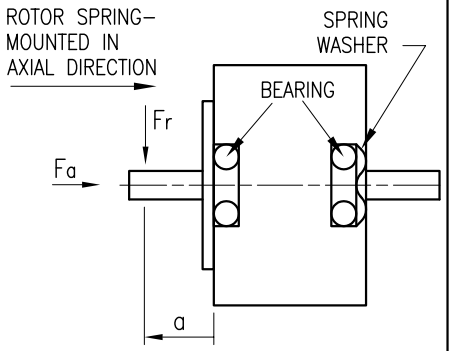
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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)	Fa=65			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	535	355	265	200

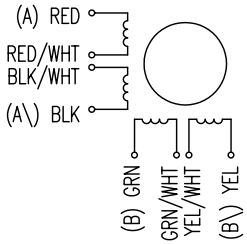
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.075	0.025
AT LOAD MAX: (N)	10	5.0

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

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

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD

NANOTEC:

ST8718L6708

SCALE FREE	
X	±0.5
1PL	±0.2
2PL	±0.1
ANGLE	±30'

APVD	S.Ha.	09.01.07
CHKD		
DRN	J.W.	20.07.06
SIGNATURE		DATE

STEPPING MOTOR

DWG.NO

ST8718L6708