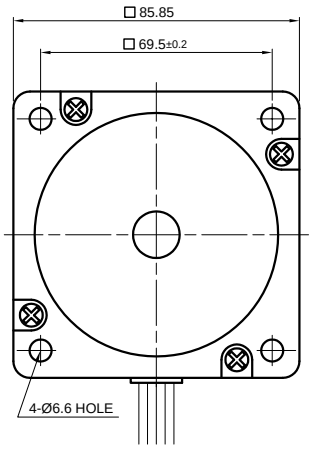
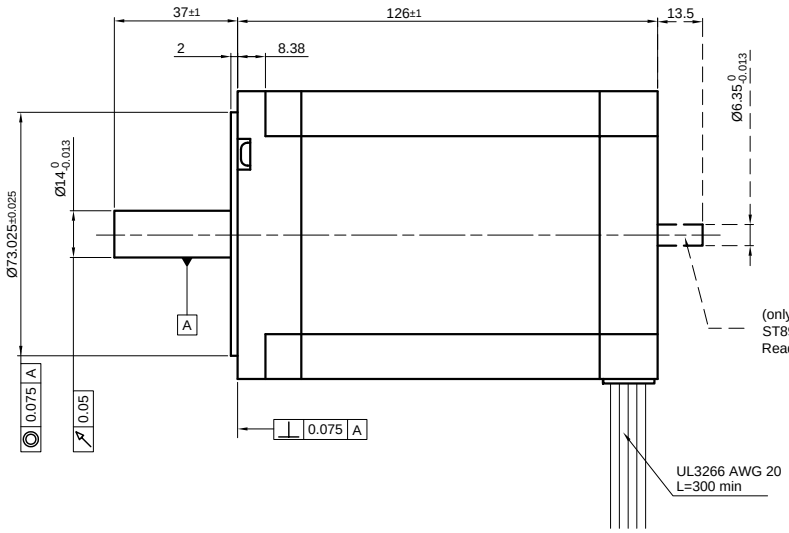
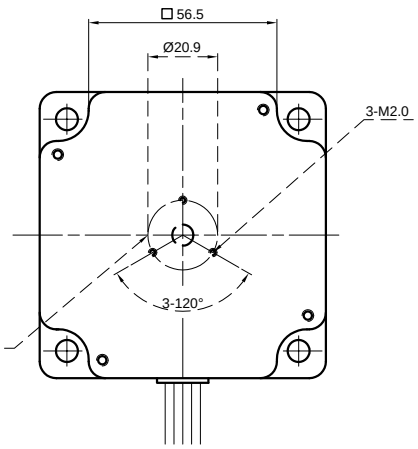
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	3.1		
AMPS/PHASE	6.7	4.7	9.5
RESISTANCE/PHASE (Ohms)@25°C	0.46±15%	0.92±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]	0.20 [1.77]		
STEP ANGLE (°) ± STEP ACCURACY	1.8 ± 5% (NON-ACCUM)		
BACK-EMF (V) (300 U/min)		46.3	
ROTOR INERTIA (Kg-m^2) [lb-in^2]	3.0×10^{-4} [1.025]		
WEIGHT (Kg) [lb]	3.95 [8.71]		

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

AMBIENT TEMPERATURE −20°~ 50°C [−4°F ~ 122°F]

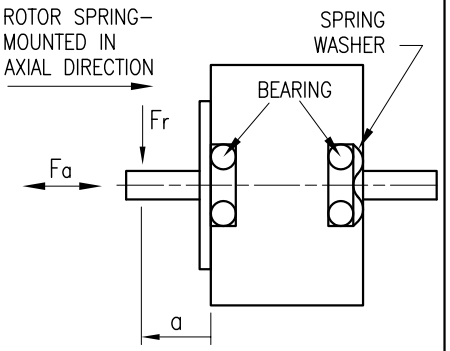
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

INSULATION CLASS B 130° [266°F] (PROTECTION IP30-WITH TERMINAL BOX IP54)

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=65			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	535	355	256	200

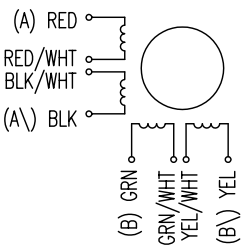
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.075	0.025
AT LOAD MAX: (N)	10	5.0

TYPE OF CONNECTION (EXTERN)				MOTOR	
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR 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	
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\		CCW
1	+	+	−	−	↓	↑
2	−	+	+	−		
3	−	−	+	+		
4	+	−	−	+	CW	

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD

NANOTEC:

ST8918L6708

SCALE FREE		APVD	S.Ha.	09.01.07
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	13.06.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

ST8918L6708