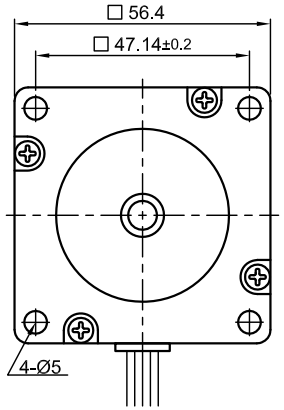
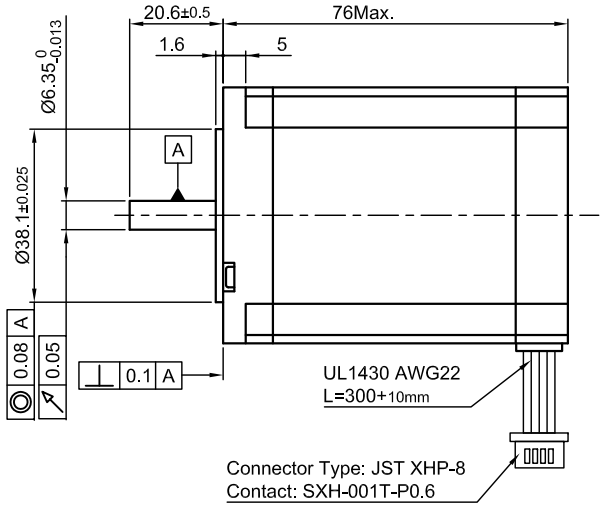
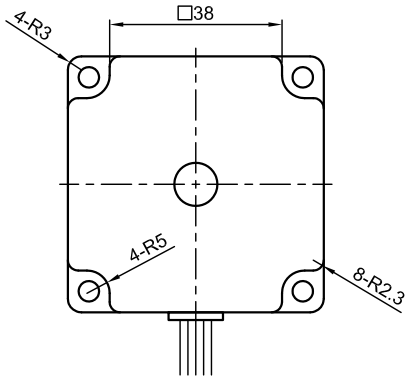
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	4.8		
AMPS/PHASE	2.0	1.41	2.82
RESISTANCE/PHASE (Ohms)@25°C	2.4±10%	4.8±10%	1.2±10%
INDUCTANCE/PHASE (mH) @1KHz	6.7±20%	26.8±20%	6.7±20%
HOLDING TORQUE (Nm) [lb-in]	1.27 [11.28] ⚠1	1.77 [15.62] ⚠1	1.77 [15.62] ⚠1
DETENT TORQUE (Nm) [lb-in]	0.068 [0.602]		
STEP ANGLE (°)	0.9		
STEP ACCURACY (NON-ACCUM)	±5%		
ROTOR INERTIA (Kg-m^2) [lb-in^2]	4.8x10^{-5} [0.164]		
WEIGHT (Kg) [lb]	1.0 [2.2]		

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

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

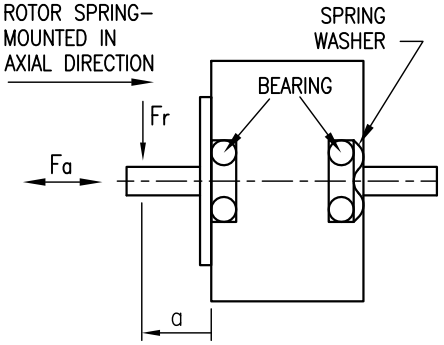
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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=15			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	130	90	70	52

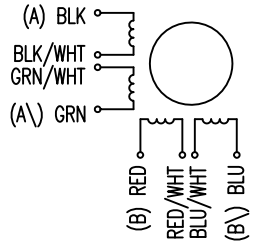
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

TYPE OF CONNECTION (EXTERN)				MOTOR		
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL	CONNECTOR PIN NO.	LEADS	WINDING
A	A	A	A	1	BLK	A
COM	A			3	BLK/WHT	
A\		A\	A\	2	GRN/WHT	A\
B	B	B	B	4	GRN	
COM	B			5	RED	B
B\		B\	B\	7	RED/WHT	
				6	BLU/WHT	B\
				8	BLU	

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
1	NEW VALUE OF HOLD. TOR.	04.11.13	J.D.

Nanotec® PLUG & DRIVE

ST5909L2008-A

SCALE FREE		APVD	S.Ha.	19.10.10
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	19.10.10
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO ST5909L2008-A