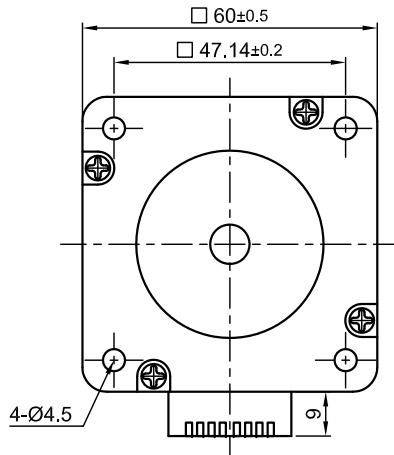
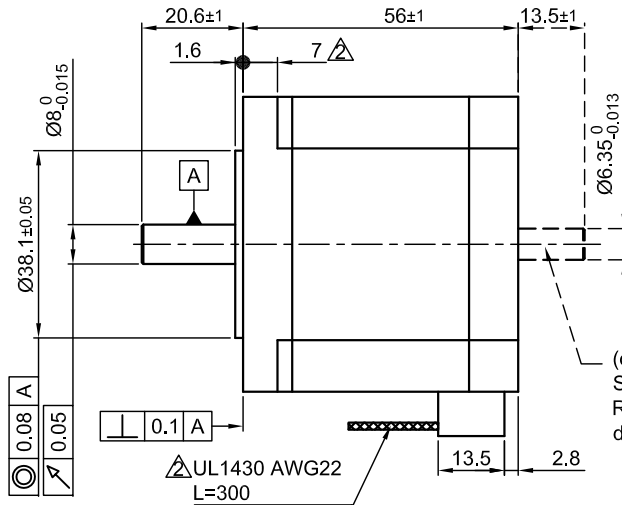


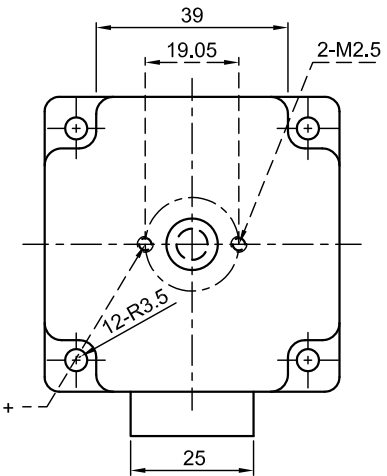
Front view and mounting



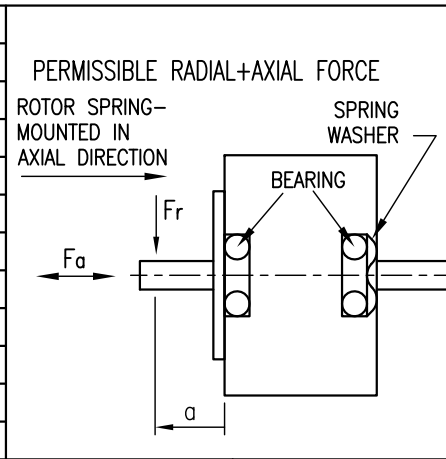
Side view



Rear view



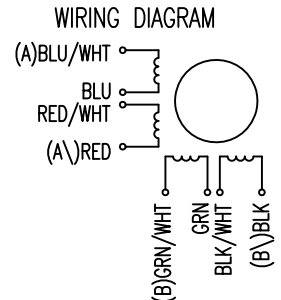
SPECIFICATION	CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	
		SERIAL	PARALLEL
VOLTAGE (VDC)	4.0		
AMPS/PHASE	2.0	1.41	2.82
RESISTANCE/PHASE (Ohms)@25°C	2.0±15%	4.0±15%	1.0±15%
INDUCTANCE/PHASE (mH) @1KHz	4.6±20%	18.4±20%	4.6±20%
HOLDING TORQUE (Nm) [lb-in]	1.38 [12.21]	1.95 [17.26]	1.95 [17.26]
DETENT TORQUE (Nm) [lb-in]	0.035 [0.311]		
STEP ANGLE (°) ± ACCURACY	1.8±5% (NON-ACCUM)		
BACK-EMF (V) (300 U/min)	31		
ROTOR INERTIA (Kg-m²) [lb-in²]	4.0x10 ⁻⁵ [0.154]		
WEIGHT (Kg) [lb]	0.77 [1.7]		



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

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

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



TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)		AXIAL-FORCE Fa (N)	
		Fa=14	
AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F]		DISTANCE a (mm)	5 10 15 20
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		RADIAL-FORCE Fr (N)	163 112 85 63
INSULATION CLASS B 130° [266°F]			AXIAL RADIAL
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		SHAFT PLAY (mm)	0.075 0.025
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)		AT LOAD MAX: (N)	10 5.0

3	NEW VALUE OF INDUCTANCE	18.12.09	J.W.
2	ROTOR INERTIA+LENGTH+UL NO.	04.08.09	J.W.
1	NEW TECHNICAL DATE	19.07.07	J.W.
REV	DESCRIPTION	DATE	APVD

Nanotec
PLUG & DRIVE

ST6018M2008

SCALE FREE	APVD	S.Ha.	16.01.07
X ±0.5	CHKD		
1PL ±0.2	DRN	J.W.	13.07.06
2PL ±0.1	SIGNATURE		
ANGLE ±30'			

STEPPING MOTOR

DWG.NO ST6018M2008