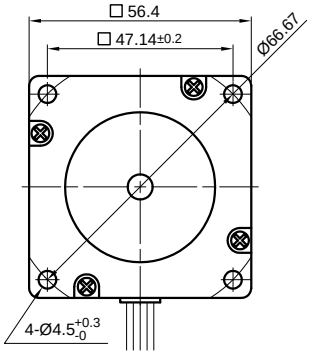
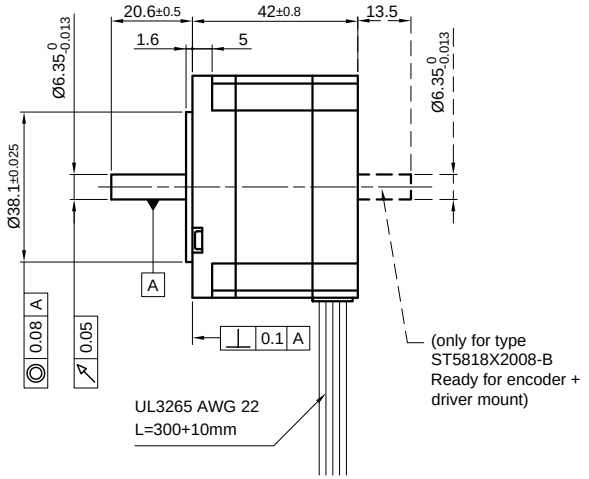
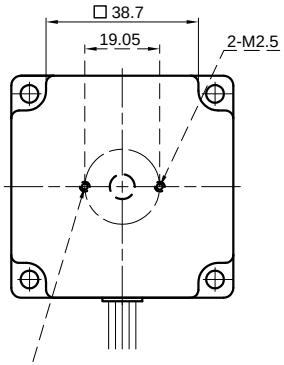
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	2.4		
AMPS/PHASE	2.0	1.41	2.83
RESISTANCE/PHASE (Ohms)@25°C	1.2±15%	2.4±15%	0.6±15%
INDUCTANCE/PHASE (mH) @1KHz	1.3±20%	5.2±20%	1.3±20%
HOLDING TORQUE (Nm) [lb-in]	0.38 [3.363]	0.537 [4.752]	0.537 [4.752]
DETENT TORQUE (Nm) [lb-in]	0.0147 [0.13]		
STEP ANGLE (°)	1.8		
STEP ACCURACY (NON-ACCUM)	±5%		
ROTOR INERTIA (Kg-m²) [lb-in²]	0.135x10⁻⁴ [0.046]		
WEIGHT (Kg) [lb]	0.49 [1.08]		

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

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

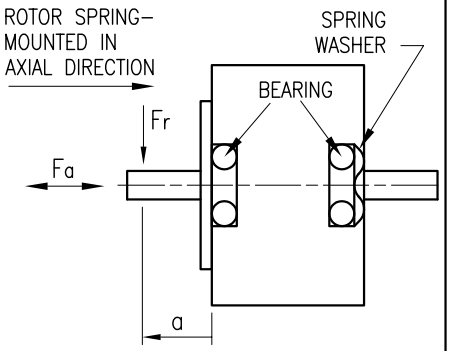
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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

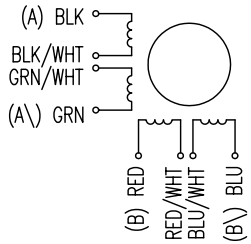
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.075	0.025
AT LOAD MAX: (N)	10	5.0

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

NANOTEC:

ST5818X2008

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

APVD	S.Ha.	16.01.07
CHKD		
DRN	J.W.	10.05.06
SIGNATURE		DATE

STEPPING MOTOR

DWG.NO

ST5818X2008