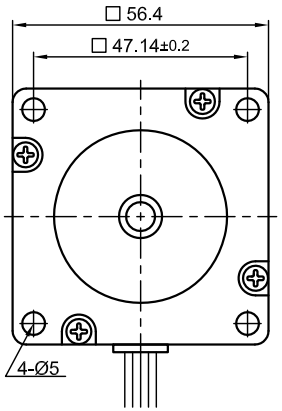
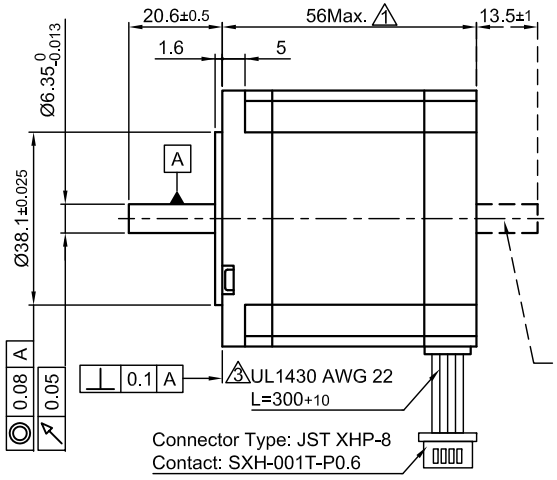
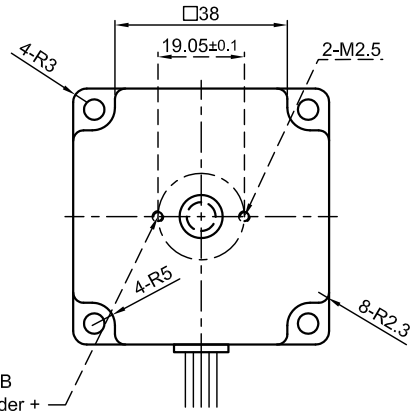
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	3.4		
AMPS/PHASE	2.0	1.41	2.82
RESISTANCE/PHASE (Ohms)@25°C	1.7±10%	3.4±10%	0.85±10%
INDUCTANCE/PHASE (mH) @1KHz	3.6±20%	14.4±20%	3.6±20%
HOLDING TORQUE (Nm) [lb–in]	0.74 [6.55]	1.05 [9.29]	1.05 [9.29]
DETENT TORQUE (Nm) [lb–in]	0.04 [0.354]		
STEP ANGLE (°) ± ACCURACY	1.8±5% (NON–ACCUM)		
BACK–EMF (V) (300 U/min)		18 min. 3 4	
ROTOR INERTIA (Kg–m²) [lb–in²]	3.0×10^{-5} [0.102]		
WEIGHT (Kg) [lb]	0.7 [1.54]		

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

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

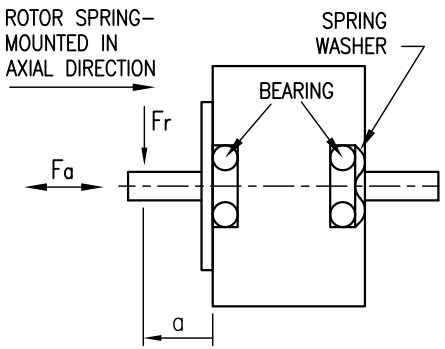
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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

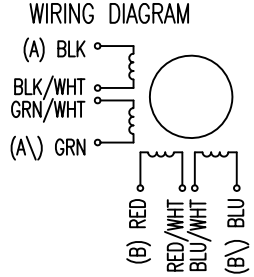
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

TYPE OF CONNECTION (EXTERN)				MOTOR		
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL	CONNECTOR PIN NO. 2	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
3	NEW BACK–EMF+UL NO.	21.10.08	J.W.
2	PIN–ASSIGNMENT	08.01.08	J.W.
4	NEW VALUE OF BACK–EMF	20.05.11	J.W.

Nanotec® PLUG & DRIVE

ST5918M2008

SCALE FREE		APVD	S.Ha.	19.03.07
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	21.11.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

ST5918M2008