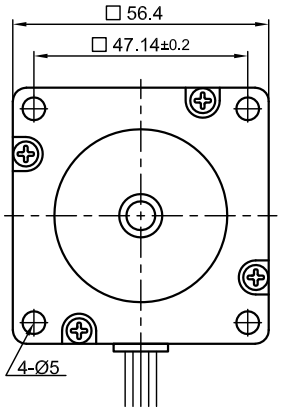
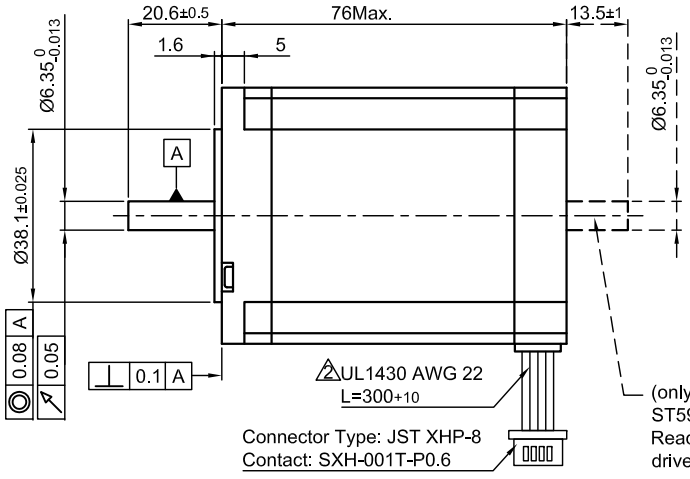
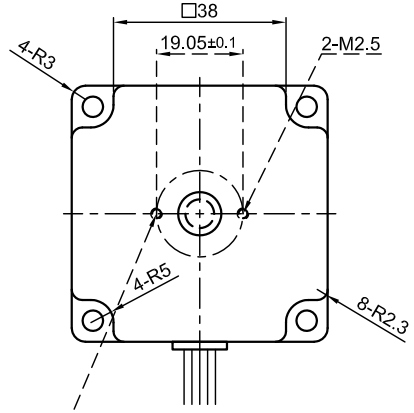
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	3.0		
AMPS/PHASE	3.0	2.1	4.2
RESISTANCE/PHASE (Ohms)@25°C	1.0±10%	2.0±10%	0.5±10%
INDUCTANCE/PHASE (mH) @1KHz	2.2±20%	8.8±20%	2.2±20%
HOLDING TORQUE (Nm) [lb-in]	1.32 [11.71] 3	1.87 [16.52] 3	1.87 [16.52] 3
DETENT TORQUE (Nm) [lb-in]	0.068 [0.602]		
STEP ANGLE (°) ± ACCURACY	1.8±5% (NON-ACCUM)		
ROTOR INERTIA (Kg-m²) [lb-in²]	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]

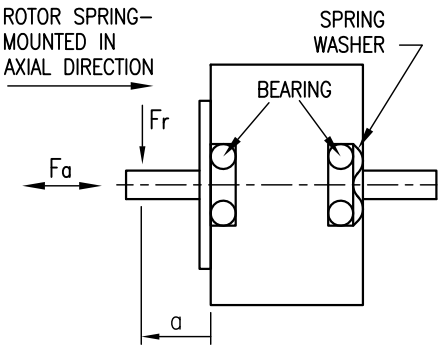
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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

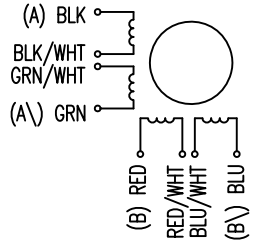
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

TYPE OF CONNECTION (EXTERN)				MOTOR		
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL	CONNECTOR PIN NO. 1	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 VALUE OF HOLD. TOR.	04.11.13.	J.D.
2	UL NO.	20.07.09	J.W.
1	PIN-ASSIGNMENT	04.01.08	J.W.

Nanotec® PLUG & DRIVE

ST5918L3008

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

APVD	S.Ha.	19.03.07
CHKD		
DRN	J.W.	21.11.06
SIGNATURE		DATE

STEPPING MOTOR

DWG.NO

ST5918L3008

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