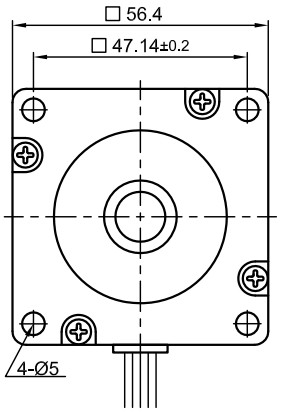
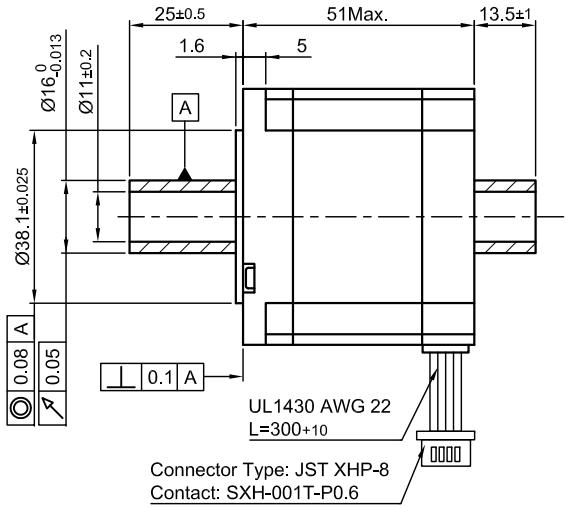
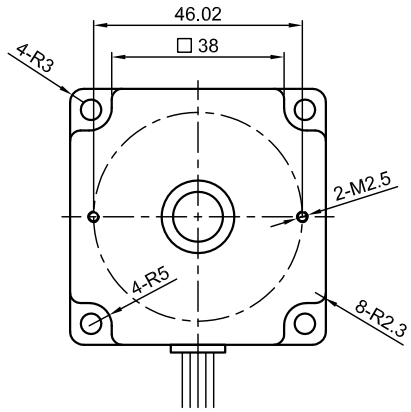
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	2.16		
AMPS/PHASE	3.0	2.12	4.24
RESISTANCE/PHASE (Ohms)@25°C	0.72±10%	1.44±10%	0.36±10%
INDUCTANCE/PHASE (mH) @1KHz	1.1±20%	4.4±20%	1.1±20%
HOLDING TORQUE (Nm) [lb-in]	0.65 [5.75]	0.92 [8.14]	0.92 [8.14]
DETENT TORQUE (Nm) [lb-in]	0.03 [0.266]		
STEP ANGLE (°) ± ACCURACY	1.8±5% (NON-ACCUM)		
BACK-EMF (V) (300 U/min)		9.59 min.	
ROTOR INERTIA (Kg-m^2) [lb-in^2]	2.75x10^{-5} [0.094]		
WEIGHT (Kg) [lb]	0.65 [1.43]		

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

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

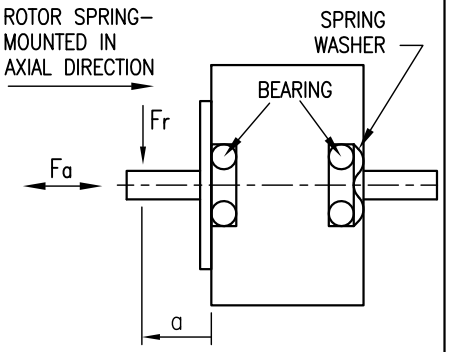
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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

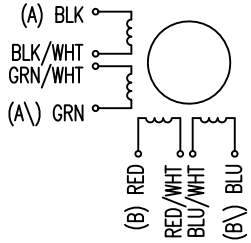
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

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

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® PLUG & DRIVE

ST5918S3008-L2

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

APVD	S.H.	17.12.10
CHKD		
DRN	J.W.	17.12.10
SIGNATURE		DATE

STEPPING MOTOR

DWG.NO ST5918S3008-L2