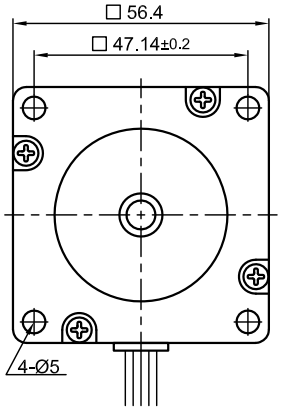
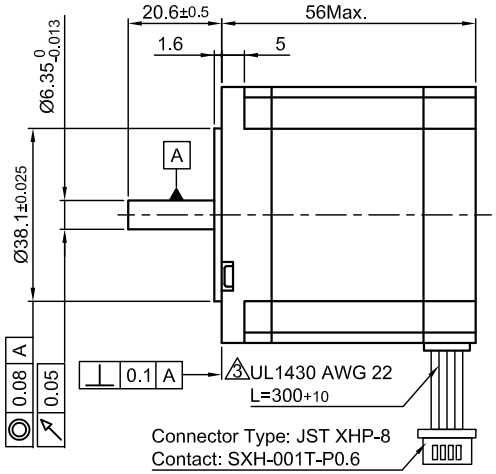
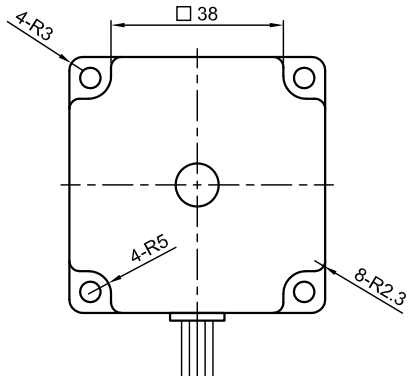
Front view and mounting



Side view

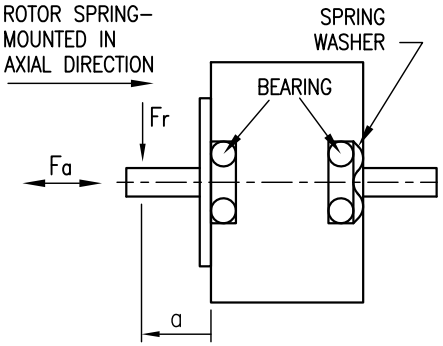


Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	2.1		
AMPS/PHASE	3.0	2.12	4.24
RESISTANCE/PHASE (Ohms)@25°C	0.7±10%	1.4±10%	0.35±10%
INDUCTANCE/PHASE (mH) @1KHz	1.3±20%	5.2±20%	1.3±20%
HOLDING TORQUE (Nm) [lb-in]	0.88 [7.8] 4	4 1.24 [10.98]	4 1.24 [10.98]
DETENT TORQUE (Nm) [lb-in]	0.04 [0.354]		
STEP ANGLE (°)	1.8		
ACCURACY(NON-ACCUM)	±5%		
ROTOR INERTIA (Kg-m²) [lb-in²]	3.0x10⁻⁵ [0.102]		
WEIGHT (Kg) [lb]	0.7 [1.54]		

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

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)

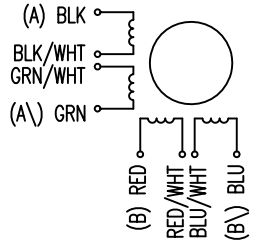
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

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				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
4	HOLD.TOR.+DELE. BACK-EMF	18.10.13	J.D.
3	NEW UL NO.	28.07.09	J.W.
2	PIN-ASSIGNMENT	08.01.08	J.W.

Nanotec® PLUG & DRIVE

ST5918M3008-A

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

ST5918M3008-A