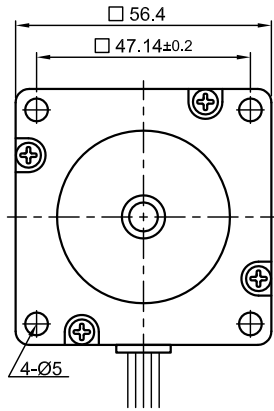
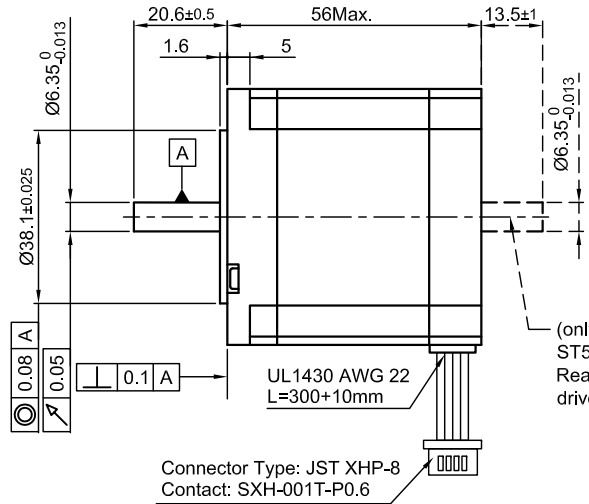


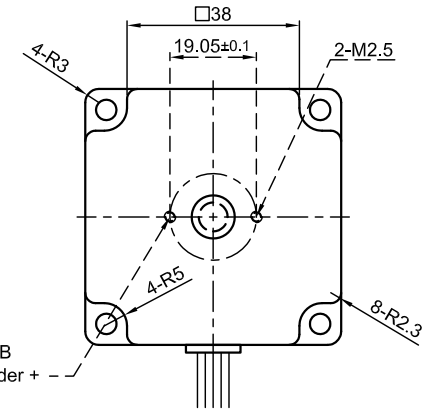
Front view and mounting



Side view

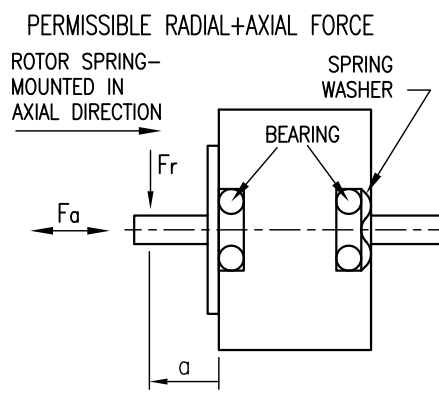


Rear view



Connector Type: JST XHP-8
Contact: SXH-001T-P0.6

SPECIFICATION	CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING		BIPOLAR	
		SERIAL	PARALLEL	SERIAL	PARALLEL
VOLTAGE (VDC)		3.6			
AMPS/PHASE		2.0	1.41	2.82	
RESISTANCE/PHASE (Ohms)@25°C		1.8±10%	3.6±10%	0.9±10%	
INDUCTANCE/PHASE (mH) @1KHz		4.5±20%	18±20%	4.5±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		0.9±5% (NON-ACCUM)			
BACK-EMF (V) (300 U/min)			23 min.		
ROTOR INERTIA (Kg-m ²) [lb-in ²]		3.0x10 ⁻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)					

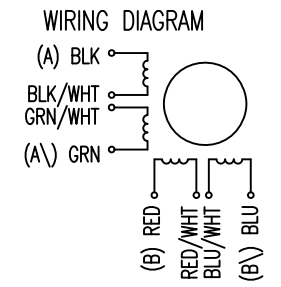


	AXIAL-FORCE Fa (N)				F _a =15	
	5	10	15	20	AXIAL	RADIAL
DISTANCE a (mm)						
RADIAL-FORCE Fr (N)	130	90	70	52		
SHAFT PLAY (mm)	0.08		0.02			
AT LOAD MAX: (N)	4.5		4.5			

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

FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\	CCW	CW
1	+	+	-	-	↓	↑
2	-	+	+	-	↓	↑
3	-	-	+	+	↓	↑
4	+	-	-	+	↓	↑



				 Nanotec [®] PLUG & DRIVE	SCALE FREE	APVD	S.Ha.	09.12.08	STEPPING MOTOR DWG.NO ST5909M2008
1	NEW VALUE OF EMK	15.01.09	J.W.		X ±0.5	CHKD			
REV	DESCRIPTION	DATE	APVD	1PL ±0.2	DRN	J.W.	09.12.08		
				2PL ±0.1	SIGNATURE		DATE		
				ANGLE ±30'					