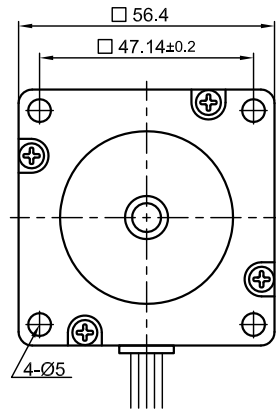
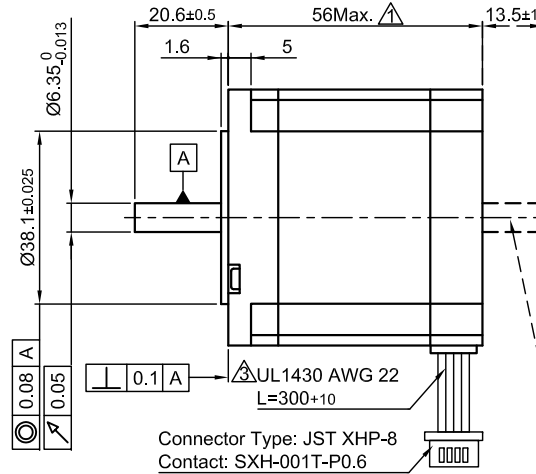


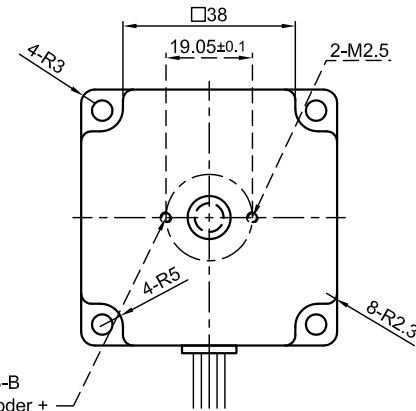
Front view and mounting



Side view



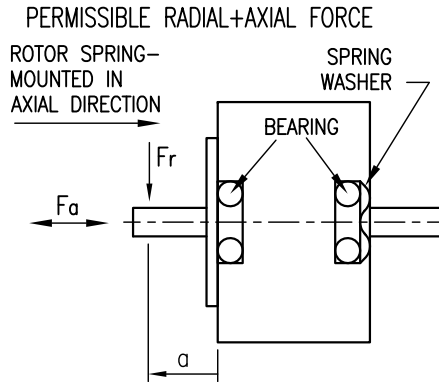
Rear view



(only for type ST5918M2008-B Ready for encoder + driver mount)

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

SPECIFICATION	CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR	
			SERIAL	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. $\Delta/\Delta$	
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]		3.0x10 <sup>-5</sup> [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)				

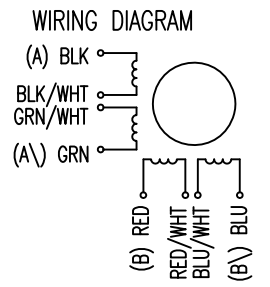


	AXIAL-FORCE Fa (N)				RADIAL-FORCE Fr (N)			
AXIAL-FORCE Fa (N)	Fa=15							
DISTANCE a (mm)	5	10	15	20				
RADIAL-FORCE Fr (N)	130	90	70	52				
	AXIAL				RADIAL			
SHAFT PLAY (mm)	0.08				0.02			
AT LOAD MAX: (N)	4.5				4.5			

UNIPOLAR	TYPE OF CONNECTION (EXTERN)			MOTOR		
	TWINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL	CONNECTOR PIN NO. $\Delta/\Delta$	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	+	-	-	+	↓	↑



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.
REV	DESCRIPTION	DATE	APVD

  
**Nanotec**<sup>®</sup>  
 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