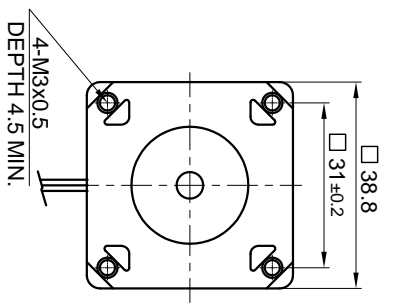
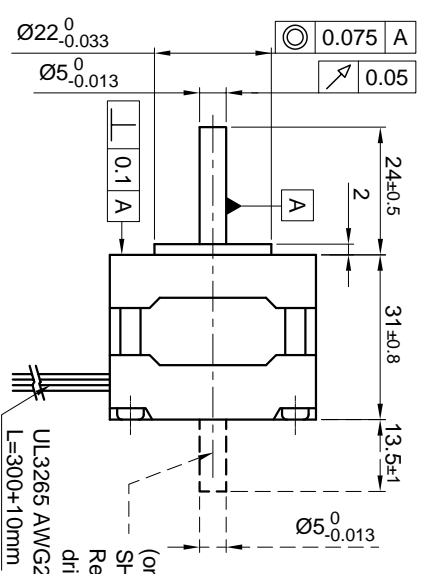


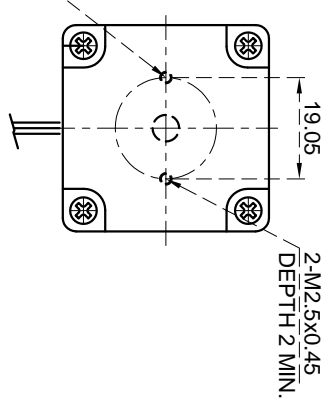
Front view and mounting



Side view

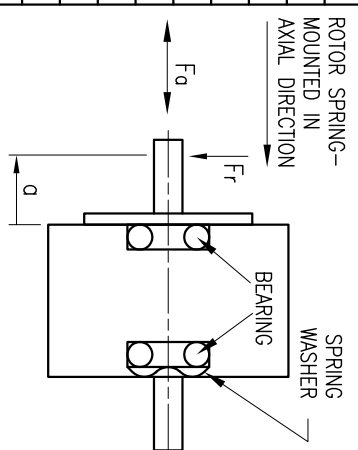


Rear view



CONNECTION	UNIPOLAR OR BIPOLAR - 1 WINDING	BIPOLAR SERIAL
SPECIFICATION		
VOLTAGE (VDC)	4	5.66
AMPS/PHASE	0.9	0.64
RESISTANCE/PHASE (Ohms)@25°C	4.5 ± 15%	9 ± 15%
INDUCTANCE/PHASE (mH) @1KHz	3.6 ± 20%	14.4 ± 20%
HOLDING TORQUE (Nm) [lb-in]	0.098 [0.867]	0.139 [1.23]
DETENT TORQUE (Nm) [lb-in]	4.9 × 10 <sup>-3</sup> [4.337 × 10 <sup>-2</sup> ]	
STEP ANGLE (°)	0.9	
STEP ACCURACY (NON-ACCUM)		± 5%
ROTOR INERTIA (kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]		1.7 × 10 <sup>-6</sup> [5.8 × 10 <sup>-3</sup> ]
WEIGHT (kg) [lb]		0.17 [0.375]
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



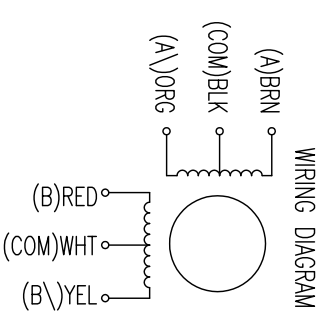
AXIAL-FORCE Fa (N)	Fa=7			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	58	36	26	20
AXIAL	0.075	0.025		
SHAFT PLAY (mm)				
AT LOAD MAX: (N)	10	5.0		

for >speed for <speed

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

STEP	A	B	A\	B\	CCW
1	+	+	-	-	
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

TYPE OF CONNECTION (EXTERN)		MOTOR	
UNIPOLAR	BIPOLAR	LEADS	WINDING
A	A	BRN	A
COM	COM	BLK	COM
A\	A\	ORG	A\
B	B	RED	B
COM	COM	WHT	COM
B\	B\	YEL	B\



REV	DESCRIPTION	DATE	APVD

NANOTEC:  
SH4009S0906

SCALE	FREE	APVD	CHKD
X	±0.5		
1PL	±0.2		
2PL	±0.1		
ANGLE	±30°		

S.K. 12.06.06  
J.W. 12.06.06

STEPPING MOTOR  
DWC.NO SH4009S0906