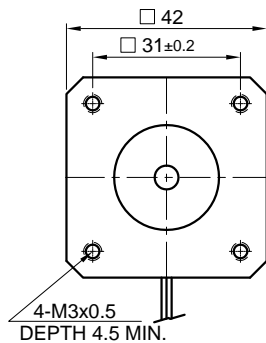
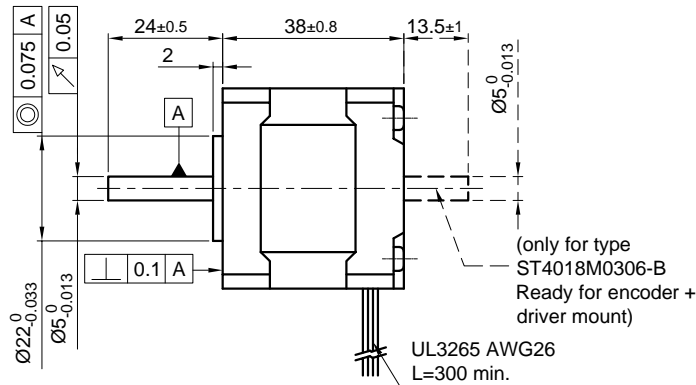


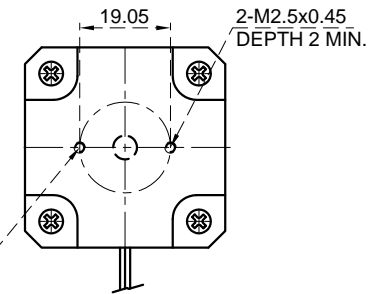
Front view and mounting



Side view

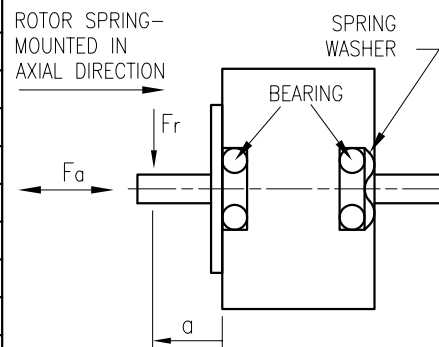


Rear view



SPECIFICATION	CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL
	VOLTAGE (VDC)		18.8
AMPS/PHASE		0.25	0.18
RESISTANCE/PHASE (Ohms)@25°C		75±15%	150±15%
INDUCTANCE/PHASE (mH) @1KHz		72.8±20%	291±20%
HOLDING TORQUE (Nm) [lb-in]		0.27 [2.39]	0.382 [3.381]
DETENT TORQUE (Nm) [lb-in]		0.98x10 <sup>-2</sup> [8.673x10 <sup>-2</sup> ]	
STEP ANGLE (°)		1.8	
STEP ACCURACY (NON-ACCUM)		±5%	
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]		4.8x10 <sup>-6</sup> [0.0164]	
WEIGHT (Kg) [lb]		0.27 [0.60]	
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)		AXIAL-FORCE F <sub>a</sub> (N)	
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]		F <sub>a</sub> =7	
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		DISTANCE a (mm)	
INSULATION CLASS B 130° [266°F]		5 10 15 20	
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		RADIAL-FORCE F <sub>r</sub> (N)	
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)		58 36 26 20	
		AXIAL	
		RADIAL	
		SHAFT PLAY (mm)	
		0.075 0.025	
		AT LOAD MAX: (N)	
		10 5.0	

PERMISSIBLE RADIAL+AXIAL FORCE

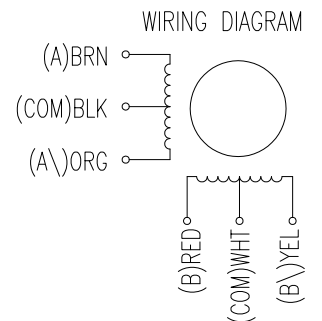


UNIPOLAR	TYPE OF CONNECTION (EXTERN)		MOTOR	
	1WINDING	SERIAL	LEADS	WINDING
A	A	A	BRN	A
COM	COM	COM	BLK	COM
A\	A\	A\	ORG	A\
B	B	B	RED	B
COM	COM	COM	WHT	COM
B\	B\	B\	YEL	B\

for >speed  
for <speed

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

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



REV	DESCRIPTION	DATE	APVD	NANOTEC:	SCALE FREE	APVD	S.K.	26.04.06	STEPPING MOTOR
					X ±0.5		CHKD		
					1PL ±0.2		DRN	J.W.	20.04.06
					2PL ±0.1				DWG.NO
					ANGLE ±30'		SIGNATURE	DATE	ST4018M0306