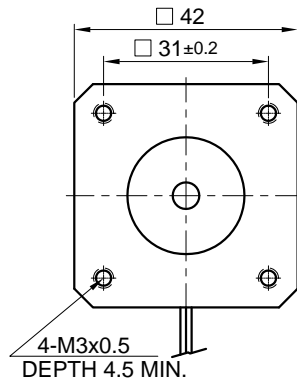
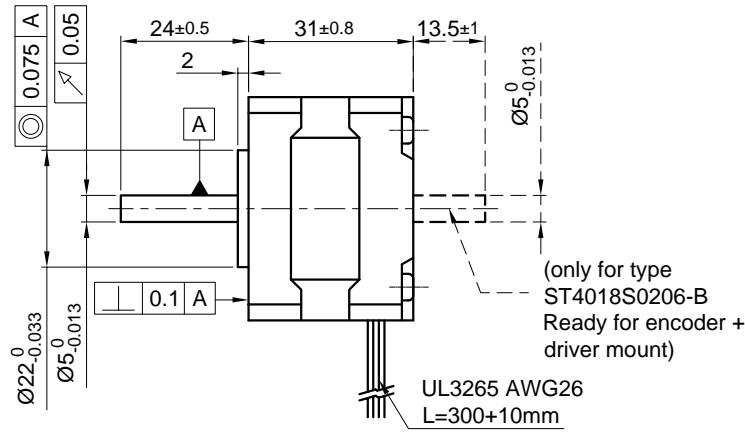


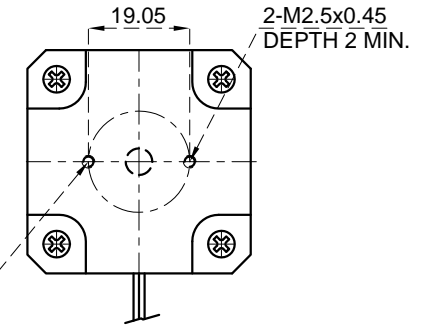
Front view and mounting



Side view

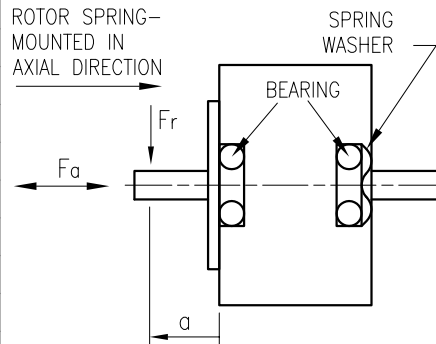


Rear view



SPECIFICATION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	16.5	23.3
AMPS/PHASE	0.22	0.16
RESISTANCE/PHASE (Ohms)@25°C	75±15%	150±15%
INDUCTANCE/PHASE (mH) @1KHz	21.7±20%	86.8±20%
HOLDING TORQUE (Nm) [lb-in]	0.15 [1.328]	0.212 [1.876]
DETENT TORQUE (Nm) [lb-in]	0.59x10 ⁻² [5.222x10 ⁻²]	
STEP ANGLE (°)	1.8	
STEP ACCURACY (NON-ACCUM)	±5%	
ROTOR INERTIA (Kg-m ²) [lb-in ²]	2.7x10 ⁻⁶ [0.92x10 ⁻²]	
WEIGHT (Kg) [lb]	0.2 [0.44]	
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



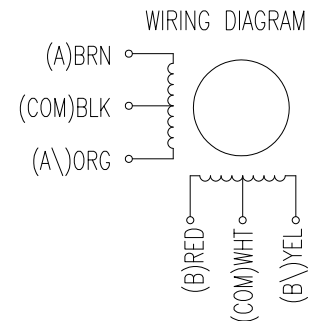
AXIAL-FORCE Fa (N)	Fa=7			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	58	36	26	20
		AXIAL	RADIAL	
SHAFT PLAY (mm)		0.075	0.025	
AT LOAD MAX: (N)		10	5.0	

TYPE OF CONNECTION (EXTERN)			MOTOR	
UNIPOLAR	BIPOLAR		LEADS	WINDING
	1WINDING	SERIAL		
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	+	-	-	+	↓	↑



NANOTEC:				SCALE FREE	APVD	S.K.	26.04.06	STEPPING MOTOR
ST4018S0206				X ±0.5	1PL ±0.2	CHKD		
REV	DESCRIPTION	DATE	APVD	2PL ±0.1	DRN	J.W.	26.04.06	DWG.NO
				ANGLE ±30'	SIGNATURE		DATE	ST4018S0206