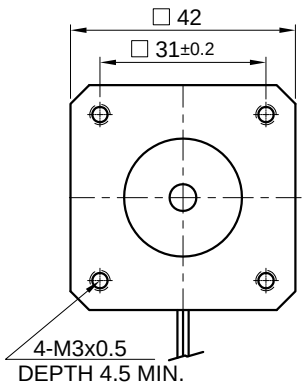
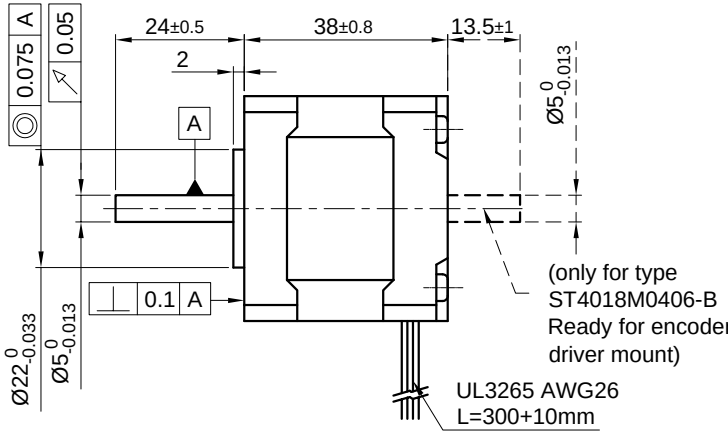
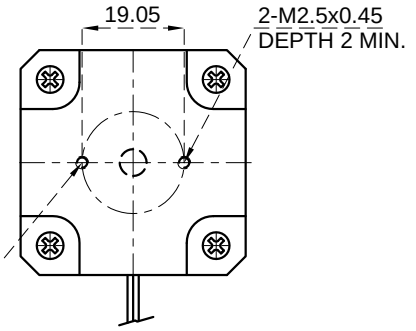
Front view and mounting



Side view



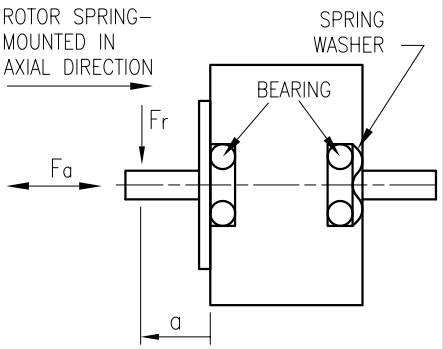
Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	12	17
AMPS/PHASE	0.4	0.28
RESISTANCE/PHASE (Ohms)@25°C	30±15%	60±15%
INDUCTANCE/PHASE (mH) @1KHz	34.3±20%	137±20%
HOLDING TORQUE (Nm) [lb–in]	0.28 [2.478]	0.396 [3.505]
DETENT TORQUE (Nm) [lb–in]	$0.98x10^{-2}$ [$8.673x10^{-2}$]	
STEP ANGLE (°)	1.8	
STEP ACCURACY (NON–ACCUM)	±5%	
ROTOR INERTIA (Kg–m^2) [lb–in^2]	$4.8x10^{-6}$ [0.0164]	
WEIGHT (Kg) [lb]	0.27 [0.60]	

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

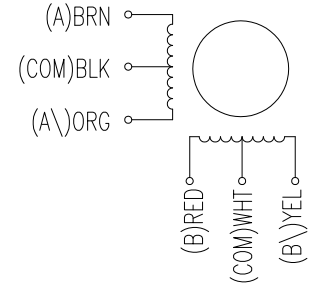
TYPE OF CONNECTION (EXTERN)			MOTOR	
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	LEADS	WINDING
A	A	A	BRN	A
COM	COM		BLK	COM
A\		A\	ORG	A\
B	B	B	RED	B
COM	COM		WHT	COM
B\		B\	YEL	B\

for >speed
for <speed

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

STEP	A	B	A\	B\		CCW
1	+	+	–	–		
2	–	+	+	–		
3	–	–	+	+		
4	+	–	–	+	CW	

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD

NANOTEC:

ST4018M0406

SCALE FREE		APVD	S.K.	26.04.06
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	20.04.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

ST4018M0406