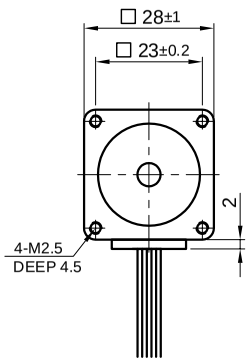
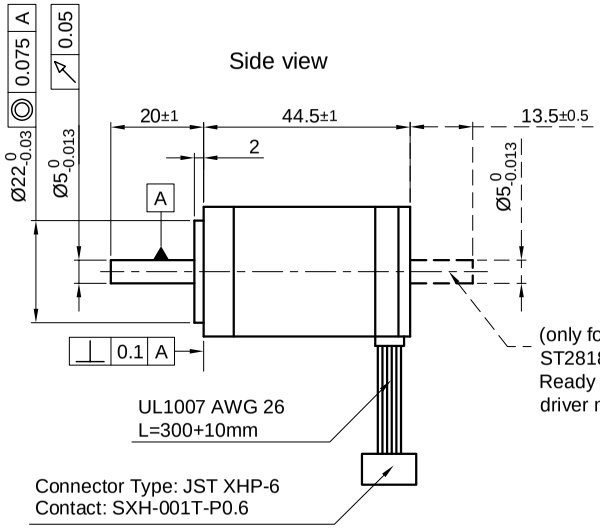
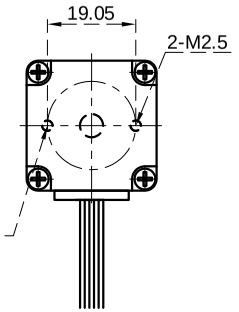
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	3.23	4.56
AMPS/PHASE	0.95	0.67
RESISTANCE/PHASE (Ohms)@25°C	3.4±15%	6.8±15%
INDUCTANCE/PHASE (mH) @1KHz	1.2±20%	4.8±20%
HOLDING TORQUE (Nm) [lb–in]	0.075 [0.664]	0.106 [0.938]
DETENT TORQUE (Nm) [lb–in]	$3.75x10^{-3}$ [0.0332]	
STEP ANGLE (°)	1.8	
STEP ACCURACY (NON–ACCUM)	±5%	
ROTOR INERTIA (Kg–m^2) [lb–in^2]	$12x10^{-7}$ [$4.1x10^{-3}$]	
WEIGHT (Kg) [lb]	0.176 [0.388]	

TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)

AMBIENT TEMPERATURE –10°~ 50°C [14°F ~ 122°F]

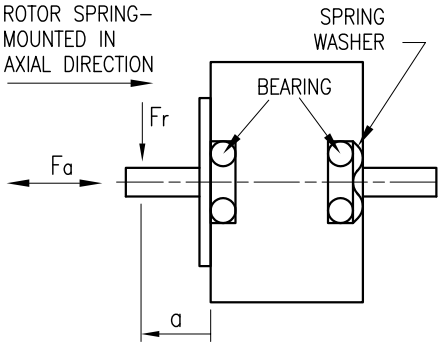
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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

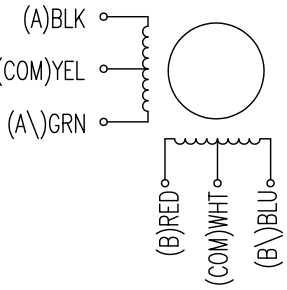
TYPE OF CONNECTION (EXTERN)			MOTOR		
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	CONNECTOR PIN NO.	LEADS	WINDING
A	A	A	1	BLK	A
COM	COM		5	YEL	COM
A\		A\	3	GRN	A\
B	B	B	2	RED	B
COM	COM		6	WHT	COM
B\		B\	4	BLU	B\

for >speed
for <speed

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

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD

NANOTEC:

ST2818M1006

SCALE FREE		APVD	S.K.	06.06.06
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	06.06.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

ST2818M1006