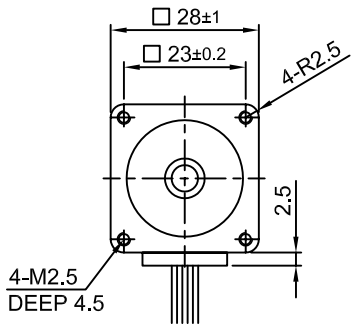
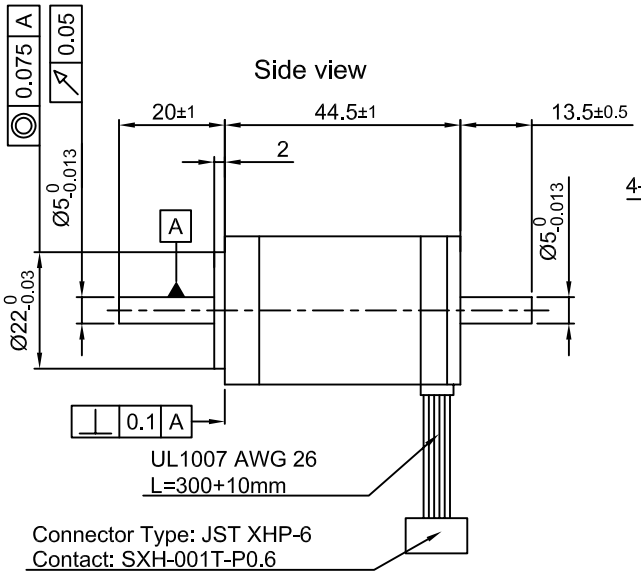
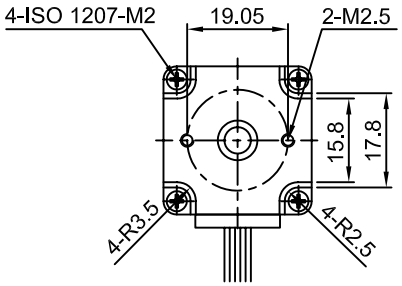
Front view and mounting




Side view

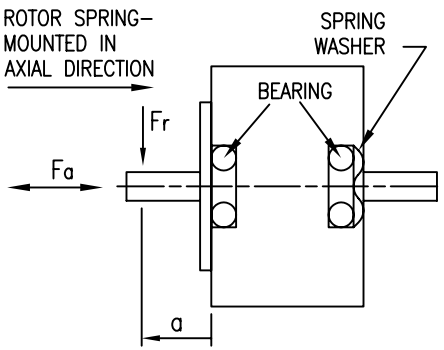



Rear view




| 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 |

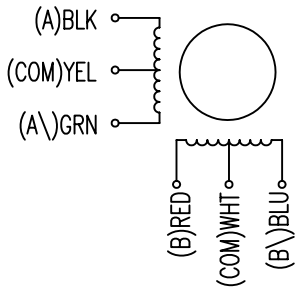
| TYPE OF CONNECTION (EXTERN) | | | MOTOR | | |
|---|---|---|---|---|---|
| UNIPOLAR | BIPOLAR 1WINDING | BIPOLAR SERIAL | CONNECTOR PIN NO. | LEADS | WINDING |
| A | A | A | 1 | BLK | A |
| COM | COM | | 5 | YEL | COM |
| A\ | | A\ | 3 | GRN | A\ |
| B | B | B | 2 | RED | B |
| COM | COM | | 6 | WHT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

WIRING DIAGRAM




| REV | DESCRIPTION | DATE | APVD |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

NANOTEC:

ST2818M1006–B

| 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–B