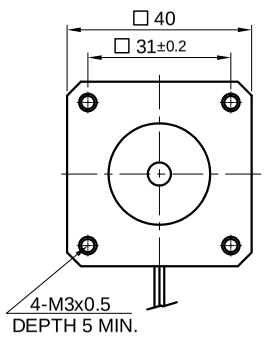
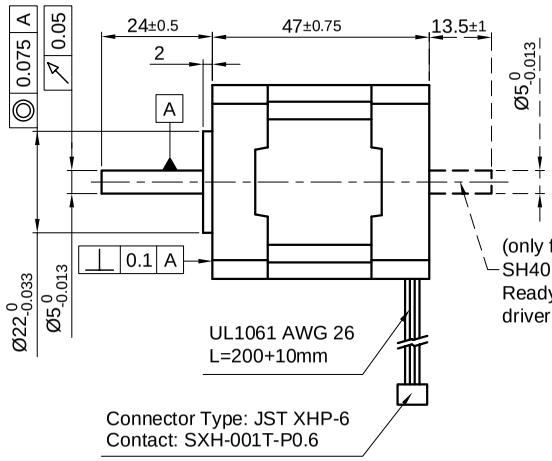
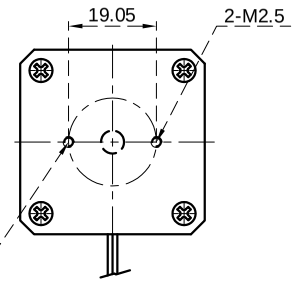
Front view and mounting




Side view




Rear view




| SPECIFICATION \ CONNECTION | BIPOLAR |
|---|---|
| VOLTAGE (VDC) | 4.5 |
| AMPS/PHASE | 1.0 |
| RESISTANCE/PHASE (Ohms)@25°C | 4.5±15% |
| INDUCTANCE/PHASE (mH) @1KHz | 7.2±20% |
| HOLDING TORQUE (Nm) [lb-in] | 0.26 [2.301] |
| DETENT TORQUE (Nm) [lb-in] | $7.8x10^{-3}$ [0.069] |
| STEP ANGLE (°) | 1.8 |
| STEP ACCURACY (NON-ACCUM) | ±5% |
| ROTOR INERTIA (Kg-$m^2$) [lb-$in^2$] | $3.5x10^{-6}$ [0.012] |
| WEIGHT (Kg) [lb] | 0.30 [0.662] |

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

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

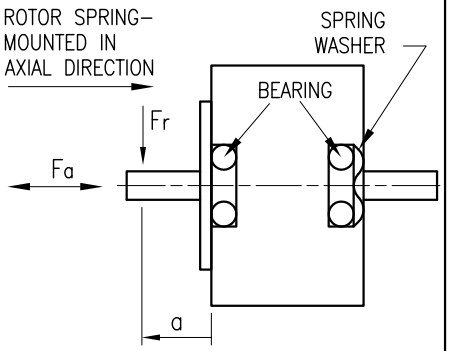
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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 |

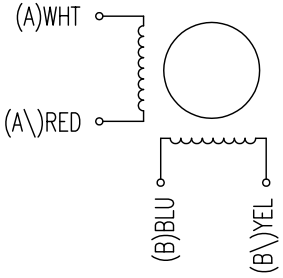
| | AXIAL | RADIAL |
|---|---|---|
| SHAFT PLAY (mm) | 0.075 | 0.025 |
| AT LOAD MAX: (N) | 10 | 5.0 |

| TYPE OF CONNECTION (EXTERN) | MOTOR | | |
|---|---|---|---|
| BIPOLAR | CONNECTOR PIN NO. | LEADS | WINDING |
| A — | 1 | WHT | A |
| A\ — | 3 | RED | A\ |
| B — | 2 | BLU | B |
| B\ — | 4 | YEL | B\ |

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:

SH4018L1004

| SCALE FREE | | APVD | S.K. | 04.07.06 |
|---|---|---|---|---|
| X | ±0.5 | CHKD | | |
| 1PL | ±0.2 | DRN | J.W. | 04.07.06 |
| 2PL | ±0.1 | SIGNATURE | | DATE |
| ANGLE | ±30' | | | |

STEPPING MOTOR

DWG.NO

SH4018L1004