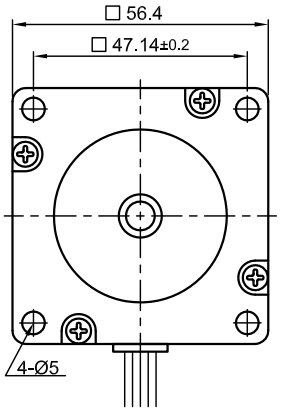
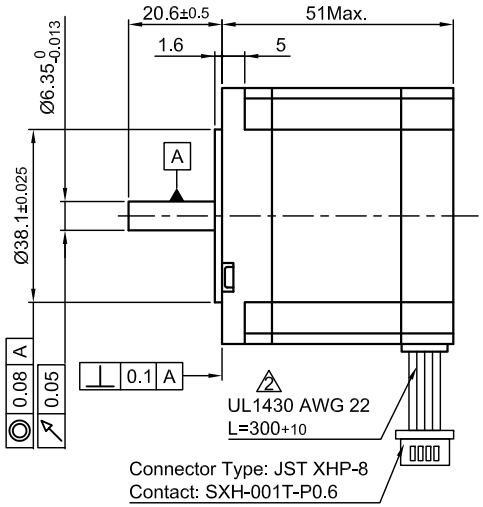
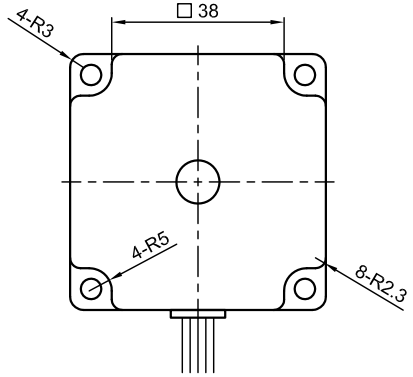
Front view and mounting




Side view



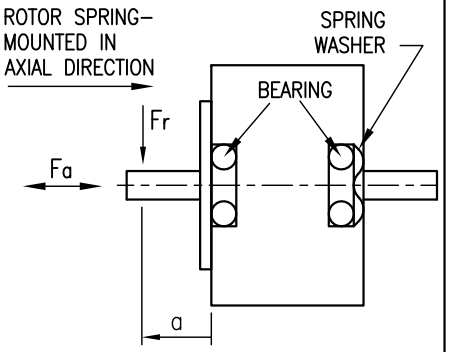

Rear view




We use parallel connection

| SPECIFICATION \ CONNECTION | UNIPOLAR OR BIPOLAR-1 WINDING | BIPOLAR SERIAL | BIPOLAR PARALLEL |
|---|---|---|---|
| VOLTAGE (VDC) | 2.16 | | |
| AMPS/PHASE | 3.0 | 2.12 | 4.24 |
| RESISTANCE/PHASE (Ohms)@25°C | 0.72±10% | 1.44±10% | 0.36±10% |
| INDUCTANCE/PHASE (mH) @1KHz | 0.9±20% 4 | 3.6±20% 4 | 0.9±20% 4 |
| HOLDING TORQUE (Nm) [lb-in] | 0.7 [6.25] 3 | 3 0.99 [8.76] | 3 0.99 [8.76] |
| DETENT TORQUE (Nm) [lb-in] | 0.03 [0.266] | | |
| STEP ANGLE (°) | 1.8 | | |
| ACCURACY(NON-ACCUM) | ±5% | | |
| ROTOR INERTIA (Kg-m$^2$) [lb-in$^2$] | 2.75x10$^{-5}$ [0.094] | | |
| WEIGHT (Kg) [lb] | 0.65 [1.43] | | |

PERMISSIBLE RADIAL+AXIAL FORCE




| AXIAL-FORCE Fa (N) | Fa=15 | | | |
|---|---|---|---|---|
| DISTANCE a (mm) | 5 | 10 | 15 | 20 |
| RADIAL-FORCE Fr (N) | 130 | 90 | 70 | 52 |

| | AXIAL | RADIAL |
|---|---|---|
| SHAFT PLAY (mm) | 0.08 | 0.02 |
| AT LOAD MAX: (N) | 4.5 | 4.5 |

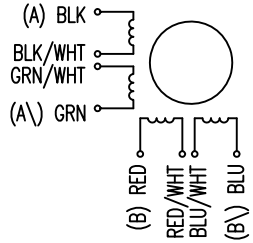
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)
INSULATION CLASS B 130° [266°F]
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

| TYPE OF CONNECTION (EXTERN) | | | | MOTOR | | |
|---|---|---|---|---|---|---|
| UNIPOLAR | BIPOLAR 1WINDING | BIPOLAR SERIAL | BIPOLAR PARALLEL | CONNECTOR PIN NO.1 | LEADS | WINDING |
| A | A | A | A | 1 | BLK | A |
| COM | | | | 3 | BLK/WHT | |
| | A | | | 2 | GRN/WHT | |
| A\ | | A\ | A\ | 4 | GRN | A\ |
| B | B | B | B | 5 | RED | B |
| COM | | | | 7 | RED/WHT | |
| | B | | | 6 | BLU/WHT | |
| B\ | | B\ | B\ | 8 | BLU | 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 |
|---|---|---|---|
| 4 | NEW VALUE OF INDUCTANCE | 13.12.13 | J.D. |
| 3 | HOLD.TOR.+DELE. BACK-EMF | 18.11.13 | J.D. |
| 2 | NEW UL NO. | 28.07.09 | J.W. |

Nanotec® PLUG & DRIVE

ST5918S3008-A

| SCALE FREE | | APVD | S.Ha. | 19.03.07 |
|---|---|---|---|---|
| X | ±0.5 | CHKD | | |
| 1PL | ±0.2 | DRN | J.W. | 21.11.06 |
| 2PL | ±0.1 | SIGNATURE | | DATE |
| ANGLE | ±30' | | | |

STEPPING MOTOR

DWG.NO ST5918S3008-A