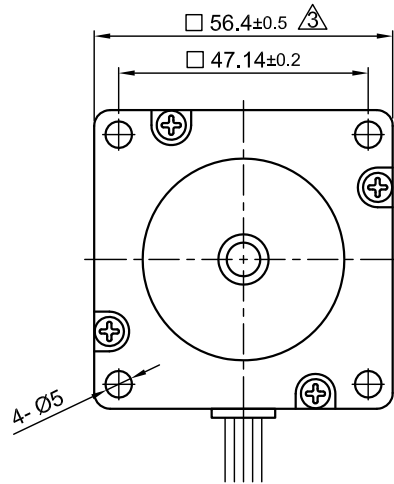
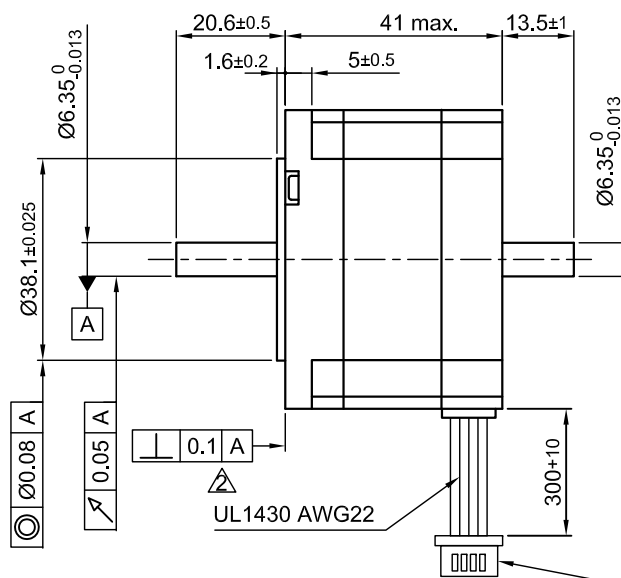


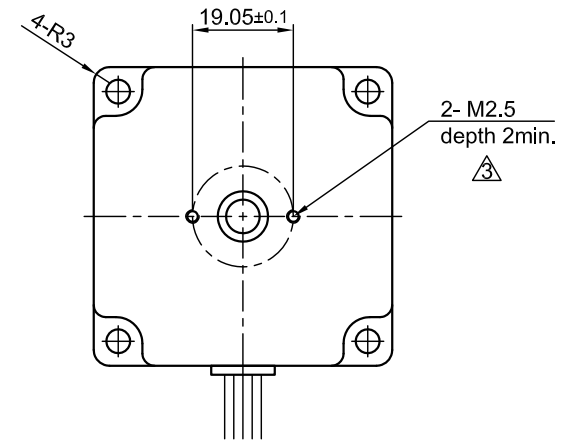
Front view and mounting



Side view

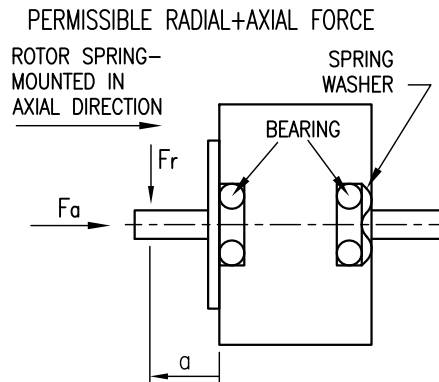


Rear view



Connector Type: JST XHP-8
Contact: SXH-001T-P0.6

| SPECIFICATION | CONNECTION | UNIPOLAR OR BIPOLAR-1 WINDING | BIPOLAR | |
|--|------------|----------------------------------|---------------|---------------|
| | | | SERIAL | PARALLEL |
| VOLTAGE (VDC) | | 1.5 | | |
| AMPS/PHASE | | 3.0 | 2.12 | 4.24 |
| RESISTANCE/PHASE (Ohms)@25°C | | 0.5±15% | 1.0±15% | 0.25±15% |
| INDUCTANCE/PHASE (mH) @1KHz | | 0.54±20% | 2.16±20% | 0.54±20% |
| HOLDING TORQUE (Nm) [lb-in] | | 0.38 [3.363] | 0.537 [4.752] | 0.537 [4.752] |
| DETENT TORQUE (Nm) [lb-in] | | 0.0147 [0.13] | | |
| STEP ANGLE (°) | | 1.8 | | |
| STEP ACCURACY (NON-ACCUM) | | ±5% | | |
| ROTOR INERTIA (Kg-m ²) [lb-in ²] | | 1.35x10 ⁻⁵ [0.046] | | |
| WEIGHT (Kg) [lb] | | 0.49 [1.08] | | |



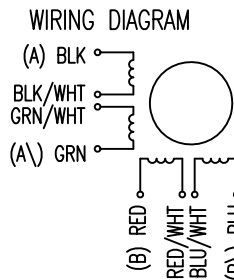
| | | | | |
|--|--|--|--|--|
| TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED) | | | | |
| AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F] | | | | |
| INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY) | | | | |
| INSULATION CLASS B 130° [266°F] | | | | |
| DIELECTRIC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

| | AXIAL-FORCE Fa (N) | Fa=10 | | | |
|---------------------|--------------------|-------|--------|----|----|
| 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 | | |

| TYPE OF CONNECTION (EXTERN) | | | | MOTOR | | |
|-----------------------------|------------------|--------|----------|-------------------|---------|---------|
| UNIPOLAR | BIPOLAR 1WINDING | SERIAL | PARALLEL | CONNECTOR PIN NO. | LEADS | WINDING |
| A | A | A | A | 1 | BLK | A |
| COM | A | | | 3 | BLK/WHT | |
| A\ | B | A\ | A\ | 2 | GRN/WHT | A\ |
| B | B | B | B | 4 | GRN | B |
| COM | B | | | 5 | RED | |
| B\ | A | B\ | B\ | 7 | RED/WHT | B\ |
| | | | | 6 | BLU/WHT | |
| | | | | 8 | BLU | |

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

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



| | | | |
|-----|---------------------------|----------|------|
| 3 | revise draw./ change tol. | 02.11.16 | A.S. |
| 2 | NEW UL NO. | 29.07.09 | J.W. |
| 1 | PIN-ASSIGNMENT | 08.01.08 | J.W. |
| REV | DESCRIPTION | DATE | DRN |



| | | |
|---------------------------------------|--|----------------------------------|
| Surface specification DIN ISO 1302 | General tolerances DIN ISO 2768- cH | Work piece edge DIN ISO 13715 |
|---------------------------------------|--|----------------------------------|

| | | |
|-----------|-------|----------|
| APVD | S.Ha. | 19.03.07 |
| CHKD | | |
| DRN | J.W. | 21.11.06 |
| SIGNATURE | | DATE |

STEPPING MOTOR

DWG.NO

ST5918X3008-B