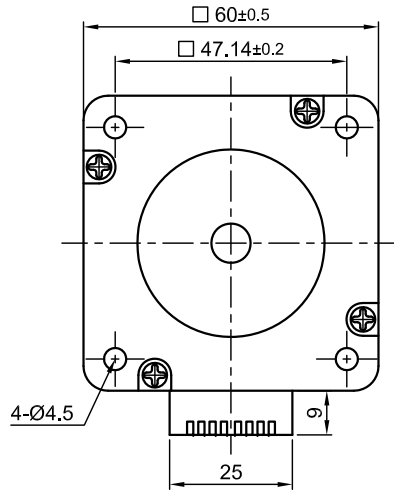
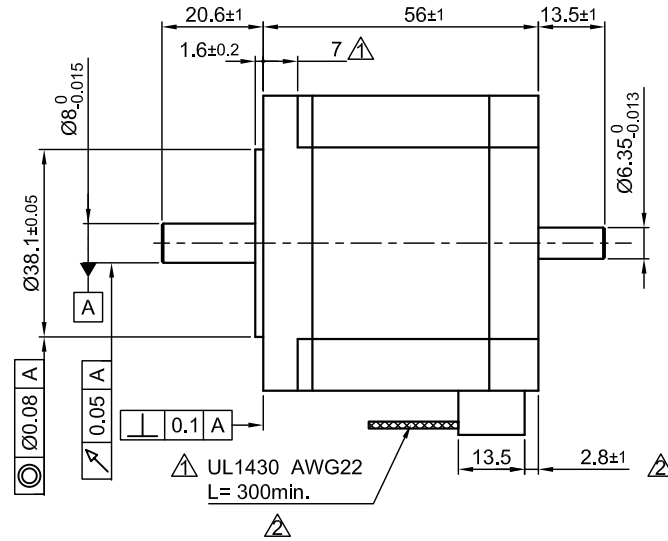


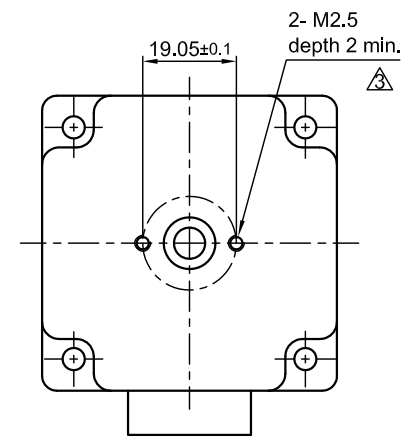
Front view and mounting



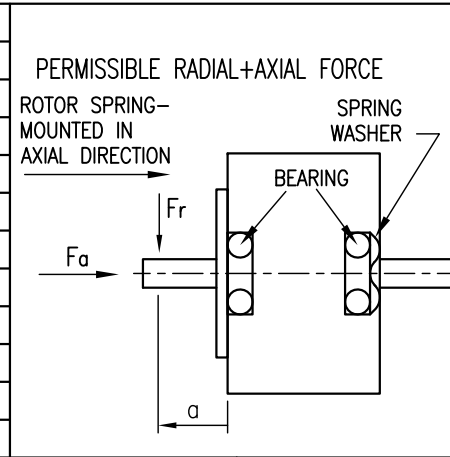
Side view



Rear view



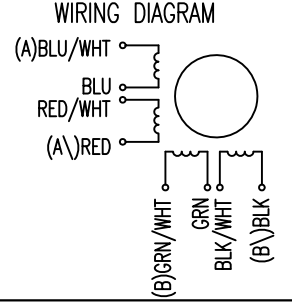
| SPECIFICATION | CONNECTION | UNIPOLAR OR BIPOLAR-1 WINDING | BIPOLAR | |
|--|------------|----------------------------------|--------------|--------------|
| | | | SERIAL | PARALLEL |
| VOLTAGE (VDC) | | 2.4 | | |
| AMPS/PHASE | | 3.0 | 2.12 | 4.24 |
| RESISTANCE/PHASE (Ohms)@25°C | | 0.8±15% | 1.6±15% | 0.4±15% |
| INDUCTANCE/PHASE (mH) @1KHz | | 1.38±20% | 5.52±20% | 1.38±20% |
| HOLDING TORQUE (Nm) [lb-in] | | 1.17 [10.35] | 1.66 [14.65] | 1.66 [14.65] |
| DETENT TORQUE (Nm) [lb-in] | | 0.035 [0.311] | | |
| STEP ANGLE (°) | | 1.8 | | |
| STEP ACCURACY (NON-ACCUM) | | ±5% | | |
| ROTOR INERTIA (Kg-m ²) [lb-in ²] | | 4.0x10 ⁻⁵ [0.154] | | |
| WEIGHT (Kg) [lb] | | 0.77 [1.7] | | |



| TYPE OF CONNECTION (EXTERN) | | | | MOTOR | |
|-----------------------------|----------|--------|----------|---------|---------|
| UNIPOLAR | BIPOLAR | | | LEADS | WINDING |
| | 1WINDING | SERIAL | PARALLEL | | |
| A — | A — | A — | A — | BLU/WHT | A |
| COM — | | | | BLU | |
| A\ — | A\ — | A\ — | A\ — | RED/WHT | A\ |
| B — | B — | B — | B — | RED | |
| COM — | | | | GRN/WHT | B |
| B\ — | B\ — | B\ — | B\ — | GRN | |
| | | | | BLK/WHT | B\ |
| | | | | BLK | |

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

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



| TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED) | AXIAL-FORCE Fa (N) | Fa=14 | | | |
|--|---------------------|-------|-------|--------|----|
| AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F] | DISTANCE a (mm) | 5 | 10 | 15 | 20 |
| INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY) | RADIAL-FORCE Fr (N) | 163 | 112 | 85 | 63 |
| INSULATION CLASS B 130° [266°F] | | | AXIAL | RADIAL | |
| DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE) | SHAFT PLAY (mm) | 0.075 | 0.025 | | |
| AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION) | AT LOAD MAX: (N) | 10 | 5.0 | | |

| | | | | | | | | | | | |
|-----|-------------------------------|----------|------|-----------------------|--------------------|-----------------|-----------|-------|----------|-----------------------|---------------|
| 3 | change tolerance | 08.11.16 | A.S. | | | | APVD | S.Ha. | 16.01.07 | STEPPING MOTOR | |
| 2 | change tol. cable/rework draw | 09.03.16 | A.S. | | | | CHKD | | | | |
| 1 | LENGTH+UL NO. | 06.08.09 | J.W. | Surface specification | General tolerances | Work piece edge | DRN | J.W. | 13.07.06 | DWG.NO | ST6018M3008-B |
| REV | DESCRIPTION | DATE | DRN | DIN ISO 1302 | DIN ISO 2768- cH | DIN ISO 13715 | SIGNATURE | | DATE | | |