

SPECIFICATIONS:

| | |
|--------------------------------------------|----------------------------------------------------------------------|
| STEPS PER REVOLUTION: 200 | ROTOR INERTIA: 57.0 G-CM ² (.31 OZ-IN ²) REF |
| STEP ANGLE: 1.8° | DETENT TORQUE: 152.9 G-CM (2.12 OZ-IN) MIN |
| STEP TO STEP ACCURACY: ± 5 % [1], [2] | INSULATION CLASS: B |
| POSITIONAL ACCURACY: ± 5 % [1], [3] | BEARINGS: ABEC 3, DOUBLE SHIELDED |
| HYSTERESIS: - % | WEIGHT: 280 G (9.8 OZ) APPROXIMATE |
| SHAFT RUNOUT: 0.03 T.I.R. | TEMP. RISE: 80 °C MAX. [8] |
| RADIAL PLAY: 0.02 MAX W/A .5KG RADIAL LOAD | OPERATING TEMP. RANGE: -20 TO +50 °C |
| END PLAY: 0.08 MAX W/A .5KG AXIAL LOAD | STORAGE TEMP. RANGE: -30 TO +70 °C |
| | RELATIVE HUMIDITY RANGE: 15 TO 85 % |

HT17-271

| REVISIONS | | | | |
|-----------|-----|-----------------|---------|----------|
| ECO NO. | REV | DESCRIPTION | DATE | APPROVED |
| 5976 | A | INITIAL RELEASE | 8/28/09 | J KORDIK |
| | | | | |
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| | | | | |
| | | | | |

[7]

| SPECIFICATION | NUMBER OF PHASE | RESISTANCE PER PHASE OHM ±10% | INDUCTANCE PER PHASE mH ±20% | RATED CURRENT Amp | RATED VOLTAGE V | HOLDING TORQUE N.m Min |
|-------------------|-----------------|-------------------------------|------------------------------|-------------------|-----------------|------------------------|
| BI-POLAR SERIES | 2 | 7.0 | 12.0 | 0.85 | 6.0 | 0.37 |
| BI-POLAR PARALLEL | 2 | 1.7 | 3.0 | 1.70 | 2.9 | 0.37 |
| UNI-POLAR | 4 | 3.5 | 3.0 | 1.20 | 4.2 | 0.29 |

[1]

NOTES, UNLESS OTHERWISE SPECIFIED:

- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
- 4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- 5. LEADS: 8, 26 AWG, 7 STRAND MIN., UL AND CSA APPROVED, UL 1430 OR UL 3265.
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [7] AS MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz.
- [8] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- [9] SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER, DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTIONS.
- 10. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- [11] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.

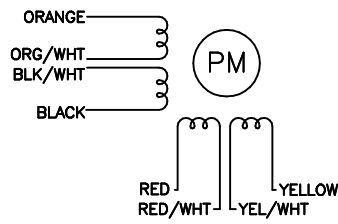
DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP

| STEP | ORANGE & BLK/WHT | BLACK & ORG/WHT | RED & YEL/WHT | YELLOW & RED/WHT |
|------|------------------|-----------------|---------------|------------------|
| 1 | + | - | + | - |
| 2 | - | + | + | - |
| 3 | - | + | - | + |
| 4 | + | - | - | + |

↓
CW
↑
CCW

CW(CLOCKWISE) AND CCW(COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

WIRING DIAGRAM



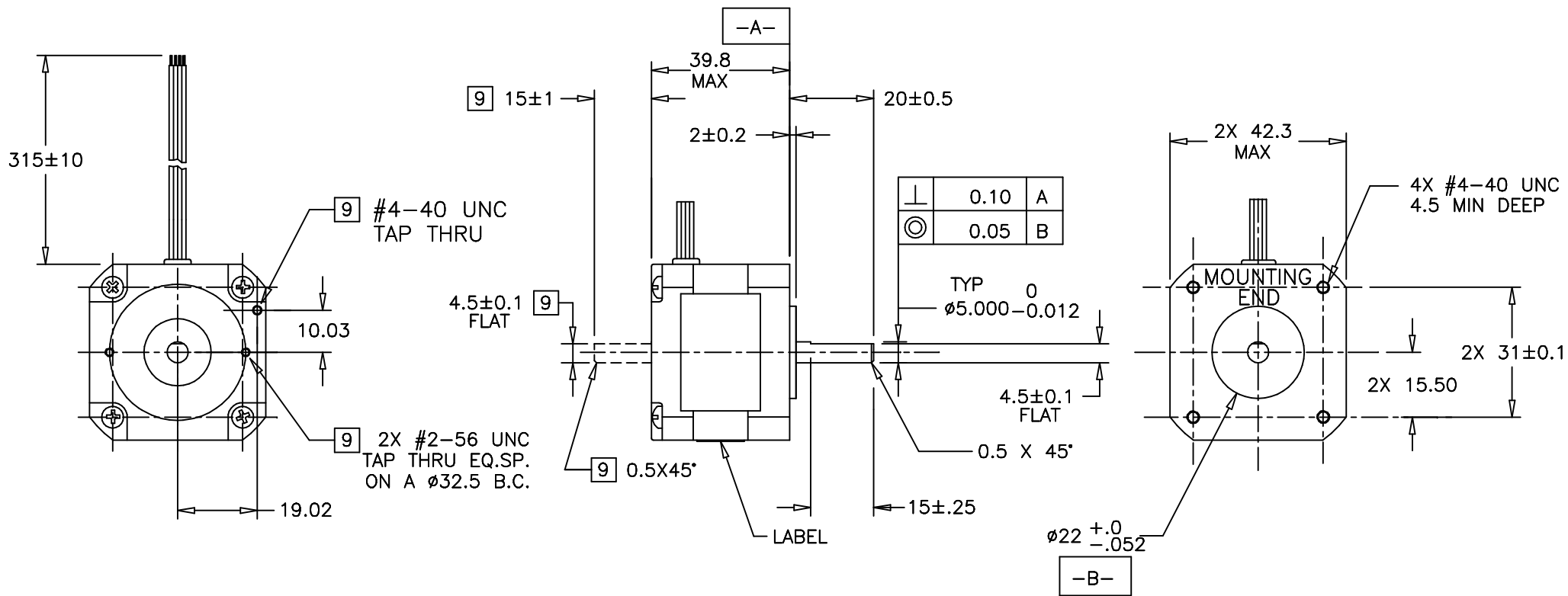
LABEL DETAIL

APPLIED MOTION PRODUCTS, INC.
HT17-271 XX-XX
 SERIES - 0.85A/7.0 OHM
 PARALLEL - 1.70A/1.7 OHM
 HOLDING TORQUE - 0.37 N.m
 RoHS MADE IN X
www.applied-motion.com

[11]

| | | | | |
|-------------------------|----------------|-------------------------------|-------------------------------|----------------------------|
| CONTRACT NO. - | | APPLIED MOTION PRODUCTS, INC. | | |
| APPROVALS | DATE | STEP MOTOR OUTLINE | | |
| DRAWN <i>R.JONEZ</i> | <i>8/19/09</i> | | | |
| CHECKED | | B | COMPUTER DATA BASE DRAWING | DWG NO. HT17-271 |
| APPROVED | | | REV A | |
| APPROVED | | SCALE: NONE | SHEET 1 OF 2 | |

MOTOR DRAWING



| TOLERANCES | | THIRD ANGLE PROJECTION | | APPLIED MOTION PRODUCTS, INC. | |
|-----------------------------------------------------------------------------------------------------------------------------------|--|------------------------|---------|-------------------------------|--------------|
| DECIMALS: MM (INCH) X.XXX = ± (.005) X.XX = ± 0.13 (.010) X.X = ± 0.25 (.020) ANGLES: MACH. = ± 5° CHAM. = ± 5° | | | | | |
| COMPUTER DATA BASE DRAWING | | APPROVALS | DATE | STEP MOTOR OUTLINE | |
| | | DRAWN R. JONEZ | 8/18/09 | B | REV A |
| | | CHECKED | | DWG NO. | HT17-271 |
| | | APPROVED | | SCALE: NONE | SHEET 2 OF 2 |