

SPECIFICATIONS:

| | |
|--|---|
| STEPS PER REVOLUTION: 200 | ROTOR INERTIA: 260 G-CM ² (1.42 OZ-IN ²) NOM |
| STEP ANGLE: 1.8° | DETENT TORQUE: 408 G-CM (5.66 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: 0.6 KG (1.32 LB) |
| SHAFT RUNOUT: 0.05 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 % |

HT23-596

| REVISIONS | | | | |
|-----------|-----|-----------------|---------|----------|
| ECO NO. | REV | DESCRIPTION | DATE | APPROVED |
| 5976 | A | INITIAL RELEASE | 8/28/09 | J KORDIK |
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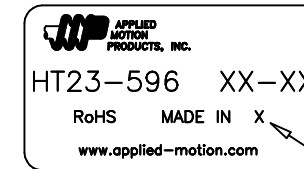
[7]

| SPECIFICATION | NUMBER OF PHASE | RESISTANCE PER PHASE OHM ±10% | INDUCTANCE PER PHASE mH ±20% | RATED CURRENT Amp | RATED VOLTAGE V | HOLDING TORQUE Nm Min |
|-------------------|-----------------|-------------------------------|------------------------------|-------------------|-----------------|-----------------------|
| BI-POLAR SERIES | 2 | 14.4 | 44.0 | 0.71 | 10.2 | 1.25 |
| BI-POLAR PARALLEL | 2 | 3.6 | 11.0 | 1.41 | 5.1 | 1.25 |
| UNI-POLAR | 4 | 7.2 | 11.0 | 1.00 | 7.2 | 0.90 |

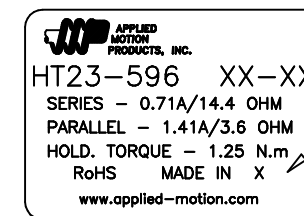
[1]

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, 22AWG, 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".
- [1] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.

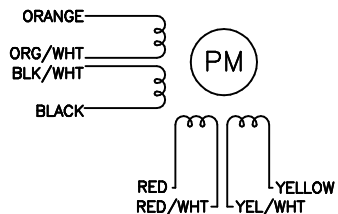


LABEL DETAIL
BOTH OPTIONS ACCEPTABLE



[11]

WIRING DIAGRAM



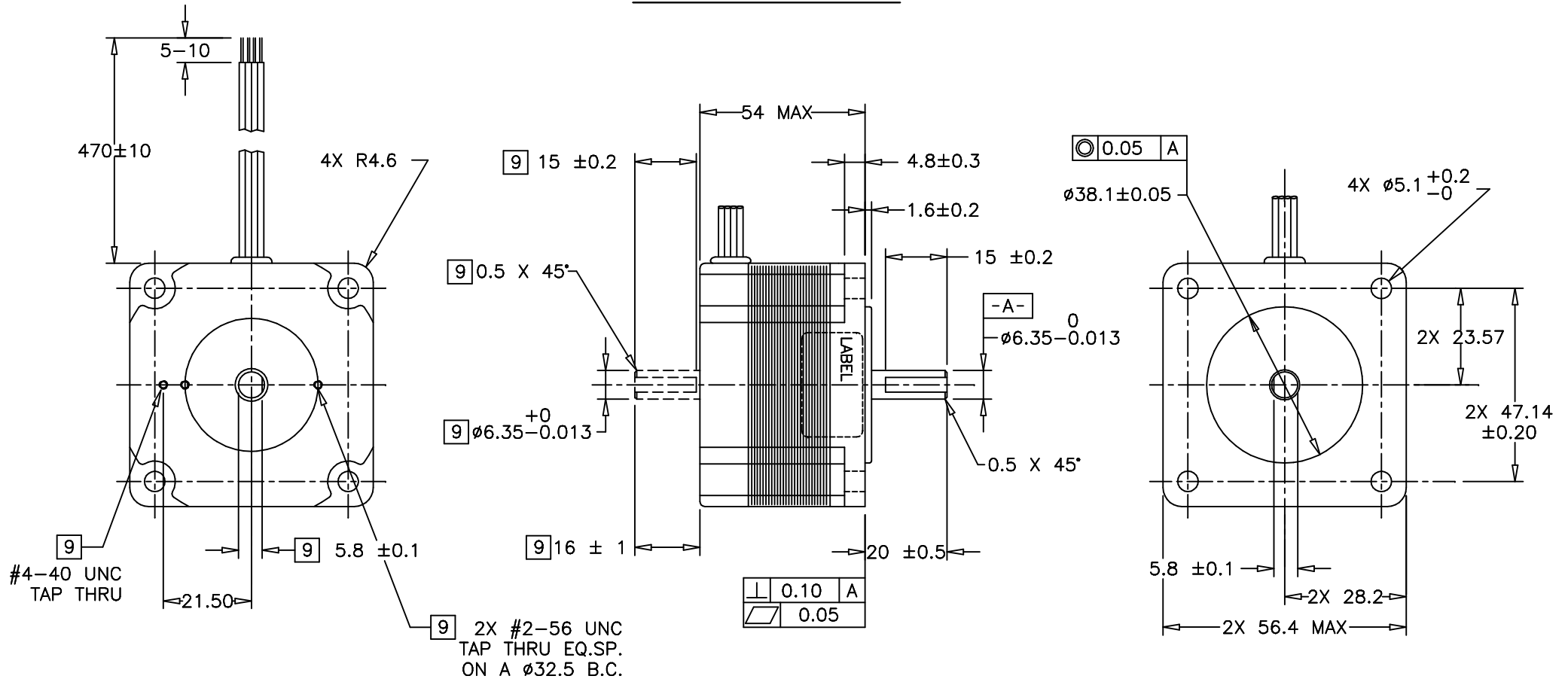
DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP

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

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

| | | | | |
|-------------------------|--|---------------------------|-------------------------------|----------------------------|
| CONTRACT NO. - | | | | |
| APPROVALS | | DATE | | |
| DRAWN <i>R.JONEZ</i> | | 8/20/09 | | |
| CHECKED | | | | |
| APPROVED | | STEP MOTOR OUTLINE | | |
| APPROVED | | B | COMPUTER DATA BASE DRAWING | DWG NO. HT23-596 |
| | | | | REV A |
| | | SCALE: NONE | SHEET 1 OF 2 | |

MOTOR DRAWING



| TOLERANCES | | THIRD ANGLE PROJECTION | | APPLIED MOTION PRODUCTS, INC. | |
|---|--|------------------------|--|-------------------------------|-----------------------|
| DECIMALS: MM (INCH) X.XXX = \pm (.005) X.XX = ± 0.13 (.010) X.X = ± 0.25 (.020) ANGLES: MACH. = $\pm 5^\circ$ CHAM. = $\pm 5^\circ$ | | | | | |
| APPROVALS DRAWN <i>R. JONEZ</i> CHECKED APPROVED | | DATE 8/20/09 | | STEP MOTOR OUTLINE | |
| COMPUTER DATA BASE DRAWING | | APPROVED | | B DWG NO. | HT23-596 |
| | | | | SCALE: NONE | REV A SHEET 2 OF 2 |