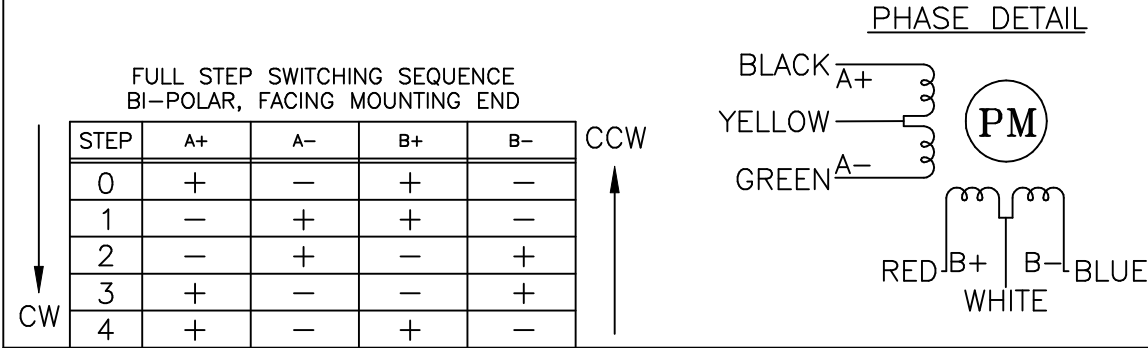


| SPECIFICATIONS:                             |  |                                 |  |                                |  |
|---|--|---------------------------------|--|--------------------------------|--|
| NUMBER OF PHASES: 4                         |  |                                 | ROTOR INERTIA: 260 g-cm <sup>2</sup> ( 1.42 oz-in <sup>2</sup> ) NOM |                                |  |
| STEPS PER REVOLUTION: 400                   |  |                                 | DETENT TORQUE: 48 mNm ( 6.80 oz-in) MIN                              |                                |  |
| STEP ANGLE: 0.9°                            |  |                                 | BEARINGS: 608ZZ  |                                |  |
| STEP TO STEP ACCURACY: ±0.045°              |  |                                 | INSULATION CLASS: B  |                                |  |
| POSITIONAL ACCURACY: ±5%                    |  |                                 | HYSTERESIS: N/A%   |                                |  |
| SHAFT RUNOUT: 0.03 mm T.I.R. MAX            |  |                                 | TEMP. RISE: 80 °C MAX.   |                                |  |
| RADIAL PLAY: 0.02 mm MAX (.5KG RADIAL LOAD) |  |                                 | OPERATING TEMP. RANGE: -20 TO +50 °C                                 |                                |  |
| END PLAY: 0.08 mm MAX (.5KG AXIAL LOAD)     |  |                                 | STORAGE TEMP. RANGE: -30 TO +70 °C                                   |                                |  |
| MAXIMUM RADIAL LOAD: 71N (15.96lb)          |  |                                 | RELATIVE HUMIDITY RANGE: 15 TO 85 %                                  |                                |  |
| MAXIMUM AXIAL LOAD: 15N ( 3.37lb)           |  |                                 | WEIGHT: 0.6 kg (1.32 lb)   |                                |  |
| [7]   |  | [8]                             |  | [1]                            |  |
| [1]   |  | [8]                             |  | [1]                            |  |
| SPECIFICATION                               |  | RESISTANCE PER PHASE (ohm ±10%) |  | INDUCTANCE PER PHASE (mH ±20%) |  |
| CONNECTION                                  |  | RATED CURRENT (amp)             |  | HOLDING TORQUE (Nm MIN)        |  |
| UNI-POLAR                                   |  | 1.8                             |  | 0.9                            |  |
| BI-POLAR SERIES                             |  | 3.6                             |  | 1.1                            |  |

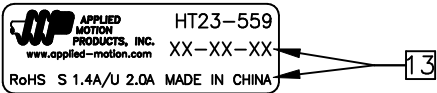
NOTES, UNLESS OTHERWISE SPECIFIED:


- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.  
[2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.  
[3] MAXIMUM ERROR IN 360°.  
4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.  
[5] LEADS: 4, AWG 22, 7 STRAND MIN., UL AND CSA APPROVED, UL 3266  
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.  
[7] AS MEASURED ACROSS EACH PHASE.  
[8] AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1 KHz.  
[9] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.  
[10] ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED. ENCODER HOLES INCLUDED WITH REAR SHAFT VERSION ONLY.  
11. ROTOR & STATOR LAMINATED CONSTRUCTION.  
12. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".  
[13] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, AMP P/N, 'MADE IN (COUNTRY OF ORIGIN)', AND DATE CODE.  
14. HIGH TORQUE MOTOR DESIGN



| REVISIONS |     |                     |         |           |
|-----------|-----|---------------------|---------|-----------|
| ECO NO.   | REV | DESCRIPTION         | DATE    | APPROVED  |
| 6947      | A   | PRELIMINARY RELEASE | 4/11/14 | D.MACLEOD |
| 7048      | B   | ERROR CORRECTION    | 8/11/14 | D.MACLEOD |
| 7069      | C   | MANU. SPEC. CHANGES | 9/30/14 | D.MACLEOD |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |
| -         | -   | -                   | -       | -         |

LABEL DETAIL



|                   |  |   |  |                    |                               |                     |          |
|-------------------|--|---|--|--------------------|-------------------------------|---------------------|----------|
| CONTRACT NO.<br>— |  |  APPLIED<br>MOTION<br>PRODUCTS, INC. |  |                    |                               |                     |          |
| APPROVALS         |  | DATE  |  | STEP MOTOR OUTLINE |                               |                     |          |
| DRAWN<br>K.KESLER |  | 9/23/14   |  |                    |                               |                     |          |
| CHECKED<br>—      |  | —   |  |                    |                               |                     |          |
| APPROVED<br>—     |  | —   |  | B                  | COMPUTER DATA<br>BASE DRAWING | DWG NO.<br>HT23-559 | REV<br>C |
| APPROVED<br>—     |  | —   |  |                    |                               |                     |          |
| SCALE: NONE       |  |   |  | SHEET 1 OF 2       |                               |                     |          |



