SPECIFICATIONS:

STEPS PER REVOLUTION: 200
STEP ANGLE: 1.8°
STEP TO STEP ACCURACY: ±5 %
POSITIONAL ACCURACY: ±5 %
Hysteresis: ±
SHAFT RUNOUT: 0.03 T.I.R.
RADIAL PLAY: 0.02 MAX W/A 0.5KG RADIAL LOAD
END PLAY: 0.08 MAX W/A 0.5KG AXIAL LOAD
OPERATING TEMP. RANGE: −20 TO +50 °C
STORAGE TEMP. RANGE: −30 TO +70 °C
RELATIVE HUMIDITY RANGE: 15 TO 85 %

REVISIONS

ECO NO. REV DESCRIPTION DATE APPROVED
7710 A INITIAL RELEASE 9/27/17 J KORDIK
7877 B DIMENSION MISSING 3/8/18 J KORDIK

SPECIFICATION

<table>
<thead>
<tr>
<th>CONNECTION</th>
<th>NUMBER OF PHASE</th>
<th>RESISTANCE PER PHASE OHM ±10%</th>
<th>INDUCTANCE PER PHASE mH ±20%</th>
<th>RATED CURRENT Amp</th>
<th>RATED VOLTAGE V</th>
<th>HOLDING TORQUE N.m Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI-POLAR SERIES</td>
<td>2</td>
<td>7.0</td>
<td>12.0</td>
<td>0.85</td>
<td>6.0</td>
<td>0.37</td>
</tr>
<tr>
<td>BI-POLAR PARALLEL</td>
<td>2</td>
<td>1.7</td>
<td>3.0</td>
<td>1.70</td>
<td>2.9</td>
<td>0.37</td>
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<tr>
<td>UNI-POLAR</td>
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<td>3.5</td>
<td>3.0</td>
<td>1.20</td>
<td>4.2</td>
<td>0.29</td>
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</tbody>
</table>

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: B, 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. ENCODER 970-1024 INSTALLED PER AMP ASSEMBLY PRACTICES.
10. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
11. MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, "MADE IN (COUNTRY OF ORIGIN)" AND DATE CODE.
12. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.

DRIVE SEQUENCE MODEL

BI-POLAR FULL STEP

<table>
<thead>
<tr>
<th>STEP</th>
<th>ORANGE</th>
<th>BLACK</th>
<th>RED</th>
<th>YELLOW</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>+</td>
<td>−</td>
<td>+</td>
<td>−</td>
</tr>
<tr>
<td>2</td>
<td>−</td>
<td>+</td>
<td>+</td>
<td>−</td>
</tr>
<tr>
<td>3</td>
<td>−</td>
<td>+</td>
<td>−</td>
<td>+</td>
</tr>
<tr>
<td>4</td>
<td>+</td>
<td>−</td>
<td>−</td>
<td>+</td>
</tr>
</tbody>
</table>

HOLDING TORQUE: 0.37 N.m

HT17-271D-CAA XX-XX
SERIES: 0.85A/7.0 OHM
PARALLEL: 1.70A/1.7 OHM

CONTRACT NO.
APPROVALS DATE
DRAWN N DEY 9/8/17
CHECKED T KESLER 9/22/17
APPROVED

SCALE: 3:4
SHEET 1 OF 2