

MOTOR SPECIFICATIONS:	GEARMOTOR SPECIFICATIONS:
NUMBER OF PHASES: 2	TEMP. RISE: 80°C MAX. [6]
STEPS PER REVOLUTION: 200	OPERATING AMB. TEMP. RANGE: -20 TO +50 °C
STEP ANGLE: 1.8°	STORAGE TEMP. RANGE: -20 TO +70 °C
RATED CURRENT: 0.35 A	RELATIVE HUMIDITY: 85% MAX NON-CONDENSING
RESISTANCE PER PHASE: 11.5 Ohms [4]	
INDUCTANCE PER PHASE: 3.4 mH [5]	
ROTOR INERTIA: 2.0 g-cm ² (0.01oz-in ²)NOM	
HOLDING TORQUE 0.015 Nm (2.12 oz-in)NOM	
INSULATION CLASS: B (130°C)	
BEARINGS: ABEC 3, DOUBLE SHIELDED, NS7 GREASE	

NOTES, UNLESS OTHERWISE SPECIFIED:

- HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- LEADS: 4, AWG 26, 7 STRAND MIN., UL AND CSA APPROVED, UL 1061
- INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [4] AS MEASURED ACROSS EACH PHASE.
- [5] AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1 KHz.
- [6] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- [8] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, AMP P/N, 'MADE IN (COUNTRY OF ORIGIN)', AND DATE CODE.
- ALL MOTOR SPECIFICATIONS AND OPERATING INSTRUCTIONS CAN BE FOUND AT APPLIED-MOTION.COM.
- [10] SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER. DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTION.

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7935	A	PRELIMINARY RELEASE	7/2/18	J.KORDIK
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Sold & Serviced By:



Canadian and International Sales

ELECTROMATE

877-737-8698

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U.S. Sales

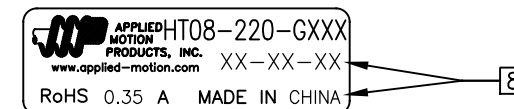
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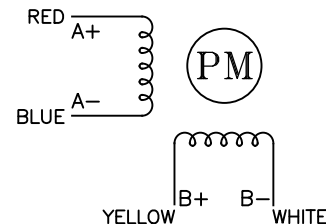
LABEL DETAIL



SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

STEP	RED	BLUE	YELLOW	WHITE
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-

CW
↓



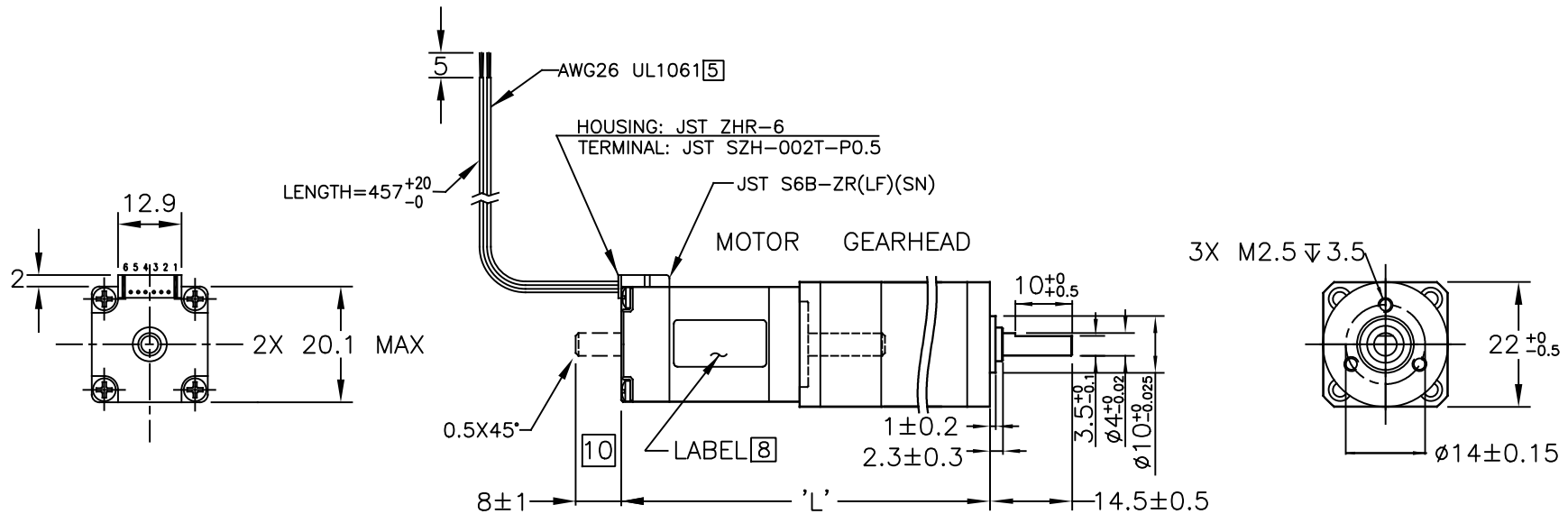
CONTRACT NO. -					
APPROVALS	DATE				
DRAWN R.JONEZ	6/15/18	STEP MOTOR WITH GEARHEAD ASSEMBLY - OUTLINE DRAWING			
CHECKED -	-				
APPROVED -	-	B	COMPUTER DATA BASE DRAWING	DWG NO. HT08-220-GXXX	REV A
APPROVED -	-		SCALE: NONE	SHEET 1 OF 2	

GEARMOTOR TECHNICAL DETAILS:

ASSEMBLY P/N	HT08-220-G005	HT08-220-G012	HT08-220-G014
TOTAL WEIGHT-MOTOR & GEARHEAD	80 g (0.18 lbs)	85 g (0.19 lbs)	85 g (0.19 lbs)
ASSEMBLY LENGTH - TOTAL 'L'	65.6 mm (2.58 in)	64.2 mm (2.53 in)	64.2 mm (2.53 in)

GEARHEAD TECHNICAL DETAILS:

GEARHEAD P/N	22PH005.50-K1	22PH012.76-K1	22PH014.29-K1
RATIO	5.5:1	12.76:1	14.29:1
MAX TORQUE CONTINUOUS	0.5 Nm (70.80 oz-in)	0.5 Nm (70.80 oz-in)	0.5 Nm (70.80 oz-in)
MAX TORQUE	0.8 Nm (113.3 oz-in)	1.0 Nm (141.61 oz-in)	1.0 Nm (141.61 oz-in)
MAX RADIAL LOAD	≤ 10 N (2.25 lbs)	≤ 10 N (2.25 lbs)	≤ 10 N (2.25 lbs)
MAX AXIAL LOAD	≤ 10 N (2.25 lbs)	≤ 10 N (2.25 lbs)	≤ 10 N (2.25 lbs)
INERTIA	0.6 g-cm ² (0.003oz-in ²)	0.5 g-cm ² (0.003oz-in ²)	0.5 g-cm ² (0.003oz-in ²)
BACKLASH	≤ 1.2 °	≤ 1.5 °	≤ 1.5 °
EFFICIENCY	90 %	81 %	81 %



<p>TOLERANCES</p> <p>*ALL DIMENSIONS IN MM</p> <p>DECIMALS: MM</p> <p>X.XX = ±0.13</p> <p>X.X = ±0.25</p> <p>ANGLES:</p> <p>MACH. = ±0.5°</p> <p>CHAM. = ±5°</p> <p>COMPUTER DATA BASE DRAWING</p>	<p>THIRD ANGLE PROJECTION</p>		<p>APPLIED MOTION PRODUCTS, INC.</p>	
	<p>APPROVALS</p> <p>DRAWN R.JONEZ</p> <p>CHECKED -</p> <p>APPROVED -</p>		<p>DATE</p> <p>6/15/18</p>	
	<p>STEP MOTOR WITH GEARHEAD ASSEMBLY - OUTLINE DRAWING</p>		<p>DWG NO.</p> <p>HT08-220-GXXX</p>	<p>REV</p> <p>A</p>
	<p>SCALE: NONE</p>		<p>SHEET 2 OF 2</p>	