

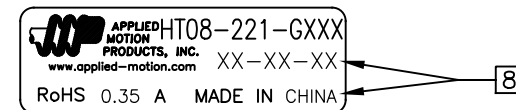
MOTOR SPECIFICATIONS:		GEARMOTOR SPECIFICATIONS:	
NUMBER OF PHASES: 2		TEMP. RISE: 80°C MAX.	<input type="checkbox"/>
STEPS PER REVOLUTION: 200		OPERATING AMB. TEMP. RANGE: -20 TO +50 °C	
STEP ANGLE: 1.8°		STORAGE TEMP. RANGE: -20 TO +70 °C	
RATED CURRENT: 0.35 A		RELATIVE HUMIDITY: 85% MAX NON-CONDENSING	
RESISTANCE PER PHASE: 20.3 Ohms	4		
INDUCTANCE PER PHASE: 7.9 mH	5		
ROTOR INERTIA: 4.2 g-cm ² (0.02 oz-in ²)NOM			
HOLDING TORQUE 0.032 Nm (4.53 oz-in)NOM			
INSULATION CLASS: B (130°C)			
BEARINGS: ABEC 3, DOUBLE SHIELDED, NS7 GREASE			

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7935	A	PRELIMINARY RELEASE	7/2/18	J.KORDIK
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NOTES, UNLESS OTHERWISE SPECIFIED:

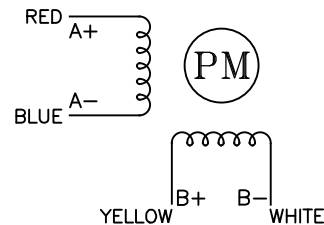
- HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- LEADS: 4, AWG 26, 7 STRAND MIN., UL AND CSA APPROVED, UL 1061
- INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- AS MEASURED ACROSS EACH PHASE.
- AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1 KHz.
- AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- 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.
- SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER.
DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTION.

LABEL DETAIL



SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

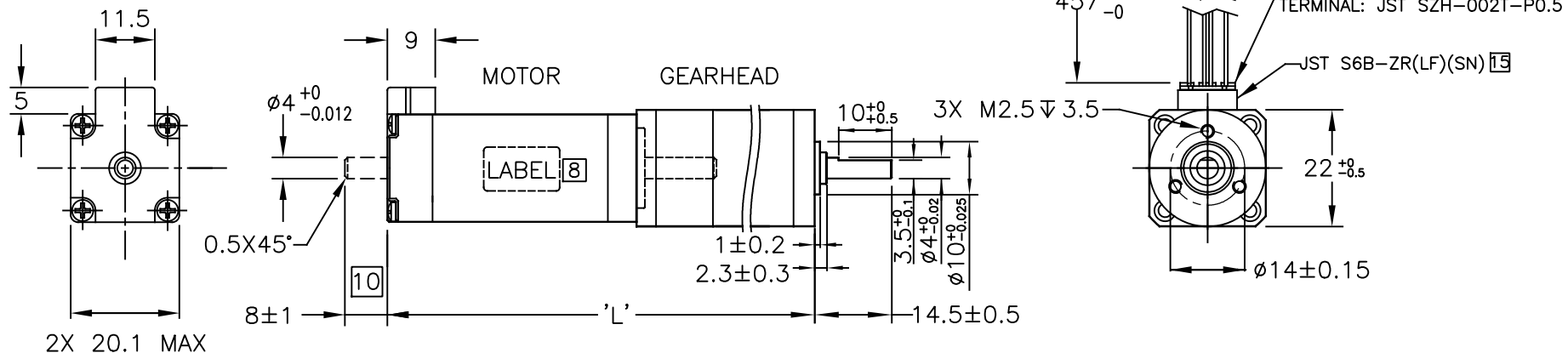
STEP	RED	BLUE	YELLOW	WHITE
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



CONTRACT NO. -				
APPROVALS	DATE	STEP MOTOR WITH GEARHEAD ASSEMBLY - OUTLINE DRAWING		
DRAWN R.JONEZ	6/15/18	B	COMPUTER DATA BASE DRAWING	DWG NO. HT08-221-GXXX
CHECKED -	-		REV A	
APPROVED -	-	SCALE: NONE		SHEET 1 OF 2
APPROVED -	-			

GEARMOTOR TECHNICAL DETAILS:			
ASSEMBLY P/N	HT08-221-G005	HT08-221-G012	HT08-221-G014
TOTAL WEIGHT-MOTOR & GEARHEAD	80 g (0.18 lbs)	85 g (0.19 lbs)	85 g (0.19 lbs)
ASSEMBLY LENGTH - TOTAL 'L'	81.1mm (3.19 in)	82 mm (3.23 in)	82 mm (3.23 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 %



MATERIAL SPECIFICATIONS	
GEARTRAIN	Y15 (1213) STEEL
HOUSING	304 STAINLESS STEEL
INPUT/OUTPUT FLANGE	LY12 ALUMINUM
OUTPUT SHAFT	40Cr STEEL
PINION	Y15 (1213) STEEL

TOLERANCES		THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.	
*ALL DIMENSIONS IN MM					
DECIMALS: MM				STEP MOTOR WITH GEARHEAD ASSEMBLY - OUTLINE DRAWING	
X.XX = ±0.13				B DWG NO. HT08-221-GXXX REV A	
X.X = ±0.25				SCALE: NONE SHEET 2 OF 2	
ANGLES:					
MACH. = ±0.5°					
CHAM. = ±5°					
COMPUTER DATA BASE DRAWING					