

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
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

NOTES, UNLESS OTHERWISE SPECIFIED:

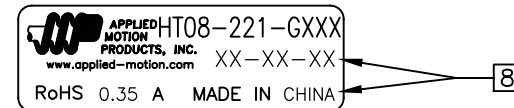
- HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- LEADS: 4, AWG 26, 7 STRAND MIN., UL AND CSA APPROVED, UL 1061
- INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- AS MEASURED ACROSS EACH PHASE.
- AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE AT 1 KHz.
- AS MEASURED BY THE CHANGE IN RESISTANCE 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.

Sold & Serviced By:

Canadian and International Sales
 **ELECTROMATE**
 877-737-8698
 sales@electromate.com
 www.electromate.com

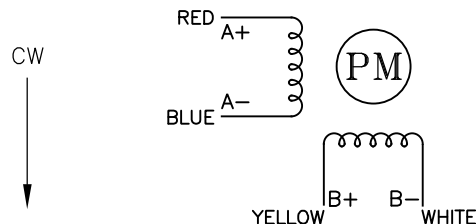
U.S. Sales
 **SERVO2GO.com**
 877-378-0240
 sales@servo2go.com
 www.servo2go.com


LABEL DETAIL



SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

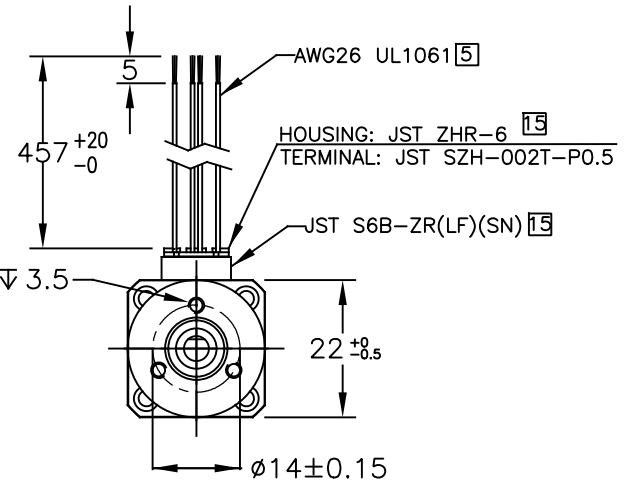
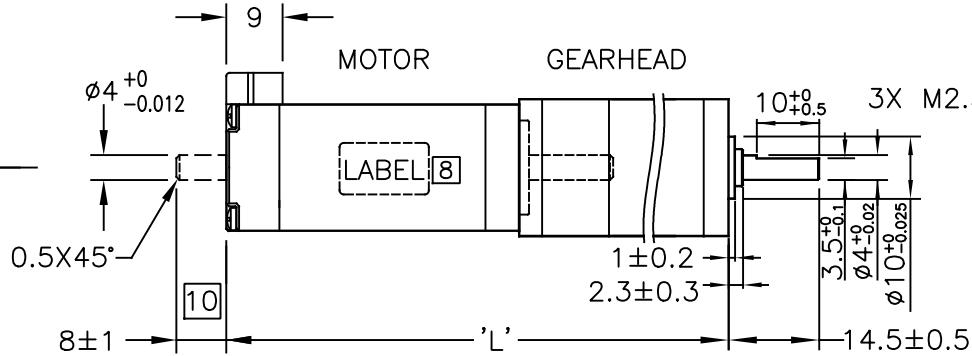
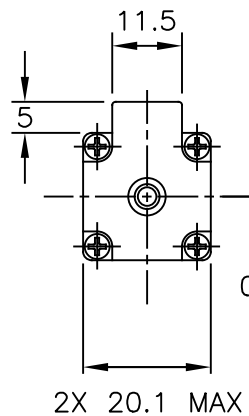
STEP	RED	BLUE	YELLOW	WHITE
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



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

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		APPROVALS		DATE	
*ALL DIMENSIONS IN MM DECIMALS: MM X.XX = ±0.13 X.X = ±0.25 ANGLES: MACH. = ±0.5° CHAM. = ±5°				APPROVALS		DATE	
				DRAWN R.JONEZ		6/15/18	
COMPUTER DATA BASE DRAWING				CHECKED -		-	
				APPROVED -		-	



STEP MOTOR WITH GEARHEAD ASSEMBLY - OUTLINE DRAWING

B DWG NO. HT08-221-GXXX REV A