7	

8758

4/18/22

APPROVED J. KORDIK J. KORDIK

L. LIU

CCW

REV

		REVISIONS		
ECO#	REV.	DESCRIPTION	DATE	/
7935	Α	INITIAL RELEASE	7/2/18	
8429	В	TYPO CORRECTION	3/3/20	

REDRAWN IN SOLIDWORKS

Sold & Serviced By:



sales@electromate.com www.electromate.com



WIRING DIAGRAM

RED (A+)	PM
BLUE (A-)	
YELLOW (B+	·) WHITE (B-

DRIVE SEQUENCE MODEL **BI-POLAR FULL STEP**

	STEP	A+	A-	B+	B-
	1	+	-	+	-
	2	-	+	+	-
	3	-	+	-	+
V	4	+	-	-	+
CW	1	+	-	+	-

DATE

CW (CLOCKWISE) AND CCW (COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE MOUNTING FACE END OF THE MOTOR

Applied Motion Products A MOONS' COMPANY	
PROPRIETARY AND CONFIDENTIAL	l
THE INFORMATION CONTAINED IN THIS	L
DRAWING IS THE SOLE PROPERTY OF	ſ
APPLIED MOTION PRODUCTS. ANY	

TOLERANCES: - ANGULAR: + 0.5 - TWO DECIMAL PLACES: ± 0.13 MATERIAL REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF APPLIED MOTION PRODUCTS IS

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS PRE.CHECK - ONE DECIMAL PLACE: + 0.25 IN.CHECK ALT DWG. NO.:

ALT SAP:

Y. LAPNET 4/18/22 PRE.APPROVAL C. BREUNINGER 4/18/22 SAP: 4611110060153

NAME

STEPPER MOTOR W/ **GEARHEAD**

B	HT11-020)-G004	С
S	CALE: 2:1	SHEET 1 C)F 2

MOTOR SPECIFICATIONS:				
NUMBER OF PHASES:	2	ROTOR INERTIA (g-cm²/oz-in²):	9/0.05 NOM	
STEPS PER REVOLUTION:	200	INSULATION CLASS:	B (130°C)	
STEP ANGLE (°):	1.8	BEARINGS:	ABEC 3, DOUBLE SHIELDED	

CONNECTION	RESISTANCE PER PHASE 5	INDUCTANCE PER PHASE 6	RATED CURRENT	HOLDING TO	DRQUE 1
	ohm ±10%	mH ±20%	AMP	mNm MIN	oz-in MIN
BI-POLAR	1.4	1.3	1.0	50	7.08

GEARMOTOR SPECIFICATIONS: TOTAL WEIGHT (±10g/±0.35oz): 80 MAX 150/5.29 TEMP. RISE (°C): -10 to +50 | RELATIVE HUMIDITY RANGE (%): |85 NON-CONDENSING OPERATING AMB. TEMP. RANGE (°C): STORAGE TEMP. RANGE (°C): 0 to +40

GEARHEAD SPECIFICATIONS:				
RATIO: 4:1 EFFICIENCY (%): 90				
MAX TORQUE CONTINUOUS (Nm/oz-in):	0.5/70.8	BACKLASH (°):	≤1.2	
MAX TORQUE (Nm/oz-in):	0.8/113.3	MAX RADIAL LOAD (N/lbf):	≤20/4.49	
MAX INPUT SPEED (RPM):	6000	MAX AXIAL LOAD (N/lbf):	≤20/4.49	

NOTES, UNLESS OTHER WISE SPECIFIED:

- MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- HIPOT 500 VAC, 60Hz FOR ONE MINUTE.
- LEADS: 4, 26 AWG, 7 STRAND MIN. UL AND CSA APPROVED. UL 1007.
- 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 1KHz.
- 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 CURRENT EU ROHS DIRECTIVE.
- MOTOR LABEL TO INCLUDE AMP LOGO, AMP WEBSITE ADDRESS, "ROHS" COMPLIANCE LOGO, AMP P/N, 'MADE IN (COUNTRY)', AND DATE CODE.
- ADD "D" TO PART NUMBER IF DOUBLE SHAFT IS REQUIRED. DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTION.

DO NOT SCALE DRAWING

SIZE DWG. NO.

В

