

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 68.0 G–CM ^{2} (0.37 OZ–IN^2) REF
STEP ANGLE: 1.8°	HOLDING TORQUE: 3.2KG–CM (44.4 OZ–IN) MIN [1]
STEP TO STEP ACCURACY: ±5 % [1], [2]	DETENT TORQUE: 100 G–CM (1.39 OZ–IN) MIN
POSITIONAL ACCURACY: ±5 % [1], [3]	
HYSTERESIS: – %	INSULATION CLASS: B
WINDING RESISTANCE: 3.3 OHM ±10% AT 25° [7]	BEARINGS: ABEC 3, DOUBLE SHIELDED
WINDING INDUCTANCE: 3.0 mH ± 20% [8]	
PHASE VOLTAGE: 4.0 VDC	TEMP. RISE: 80°C MAX. [9]
PHASE CURRENT: 1.2 AMP (RATED)	OPERATING TEMP. RANGE: –10 TO 40 °C
	STORAGE TEMP. RANGE: –40 TO 70 °C
SHAFT RUNOUT: 0.013 T.I.R.	RELATIVE HUMIDITY RANGE: 5 TO 95 %
RADIAL PLAY: 0.025 MAX WITH .5KG RADIAL LOAD.	
END PLAY: 0.075 MAX WITH 1.0KG AXIAL LOAD.	

HT17–154

REVISIONS

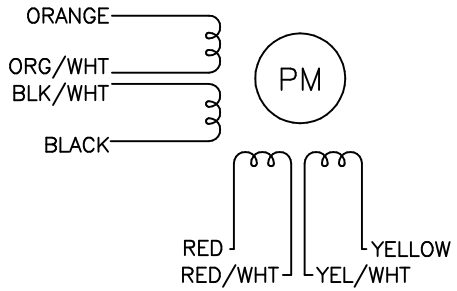
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5060	A	INITIAL RELEASE	4/28/03	R. Hazelwood

NOTES, UNLESS OTHERWISE SPECIFIED:

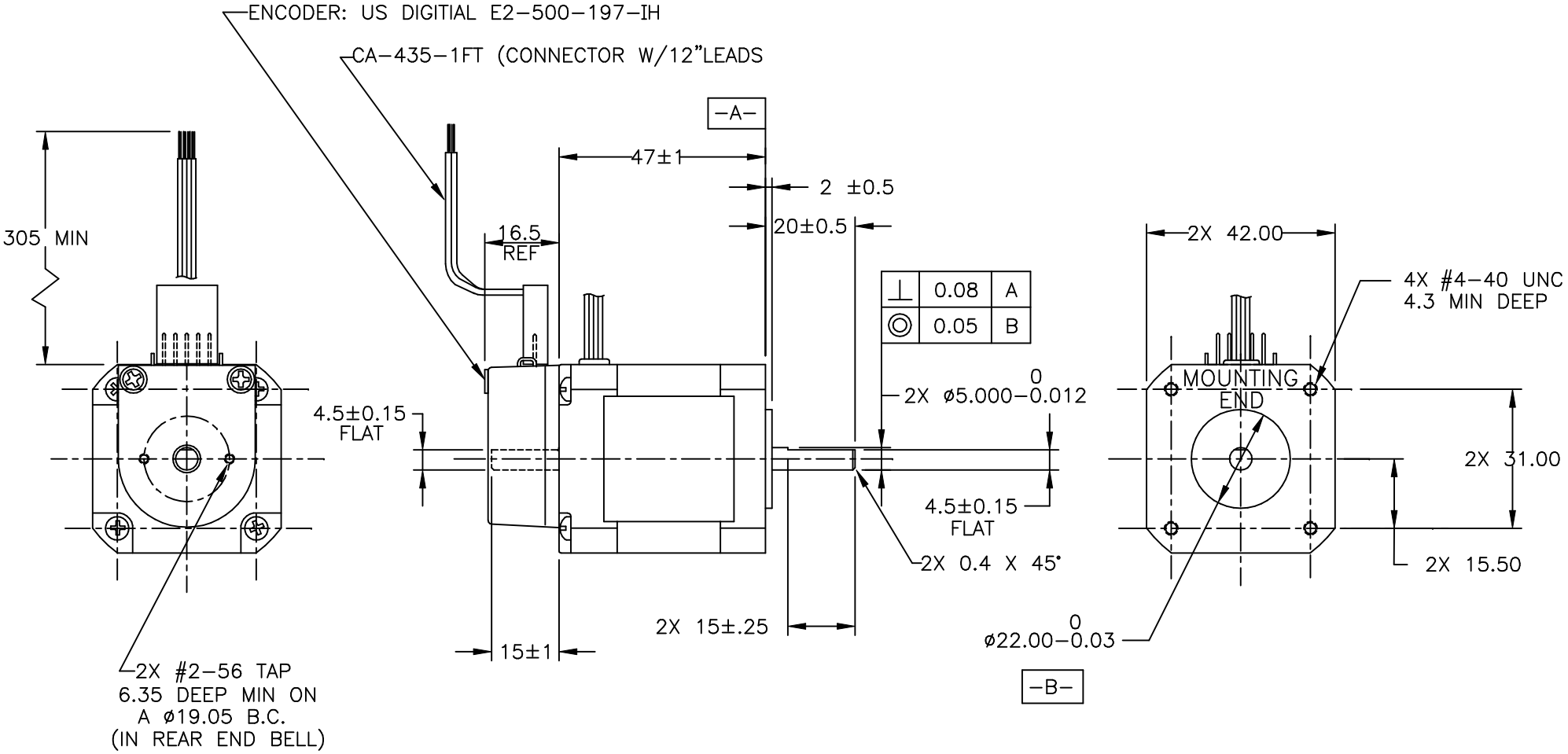
[1] MEASURMENTS MADE AT RATED CURRENT IN EACH PHASE.
[2] BETWEEN ANY TWO ADJACENT STEP POSITIONS.
[3] MAXIMUM ERROR IN 360°.
4. HIPOT 500 VAC FOR ONE MINUTE.
[5] LEADS: 8 ,AWG 26,7 STRAND MIN.,UL AND CSA APPROVED, UL 3265.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
[7] AS MEASURED ACROSS ANY WINDING.
[8] AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE (1 KHz).
[9] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
10. HIGH TORQUE MOTOR DESIGN.
11. ROTOR & STATOR LAMINATION MATERIAL: 0.5mm thk, SEE AMP STD SPEC #1500–062.
12. HT17–075D MOTOR WINDING.

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

STEP	ORANGE	BLACK	RED	YELLOW
0	+	–	+	–
1	–	+	+	–
2	–	+	–	+
3	+	–	–	+
4	+	–	+	–



CONTRACT NO. ELECTROL		APPLIED MOTION PRODUCTS, INC.	
APPROVALS	DATE	STEP MOTOR OUTLINE	
DRAWN R. BARRICK	2/21/97		
CHECKED R. Hazelwood	4/28/03		
APPROVED R. Hazelwood	4/28/03	B COMPUTER DATA BASE DRAWING	DWG NO. HT17–154 REV A
APPROVED		SCALE: FULL	SHEET 1 OF 2



TOLERANCES	THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.		
DECIMALS: MM (INCH) X.XXX= ±0.01 (.005) X.XX = ±0.10 (.010) X.X = ±0.20 (.020) ANGLES: MACH. = ±.5° CHAM. = ±5°			STEP MOTOR OUTLINE		
	APPROVALS	DATE	B	DWG NO. HT17-154	REV A
	DRAWN R. BARRICK	2/21/97			
	CHECKED R. Hazelwood	4/28/03			
COMPUTER DATA BASE DRAWING	APPROVED R. Hazelwood	4/28/03	SCALE: FULL	SHEET 2 OF 2	

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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