



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE ECO 3552	1-2-91	<i>H. Kordik</i>
B	SEE ECO 3688	1-7-92	<i>F. Kordik</i>

1. THIS SPEC NOT COMPLETE WITHOUT: DWG. NO. 3418130
 NOTES, UNLESS OTHERWISE SPECIFIED:

CONTRACT NO.		CAT	 APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	MOTOR SPECIFICATION			
DRAWN <i>R. BARRICK</i>	5/14/90				
CHECKED <i>[Signature]</i>	1/6/92				
APPROVED <i>B. Corser</i>	12/23/90				
APPROVED <i>H. Kordik</i>	1-2-91	A	COMPUTER DATA BASE DRAWING	DWG NO. 4034-336	REV B
				SHEET 1 OF 4	

NOTES, UNLESS OTHERWISE SPECIFIED:

- 1 MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- 2 BETWEEN ANY TWO ADJACENT STEP POSITIONS.
- 3 MAXIMUM ERROR IN 360°.
4. HIPOT 1150 VAC FOR ONE MINUTE.
- 5 LEADS: 6, AWG 18, 7 STRAND MINIMUM. UL AND CSA APPROVED, 105°C.
"L" = 457mm MIN.
6. INSULATION RESISTANCE: 100 MEGOHMS MINIMUM 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 SHAFT OPTION: IF REAR SHAFT OPTION IS REQUIRED ADD "D" TO END OF PART NO.
11. LAMINATION MATERIAL: 0.5mm thk, SEE AMP STD SPEC #1500-062.
MICROSTEP CONSTRUCTION (7.5°).

 APPLIED MOTION PRODUCTS, INC.	TITLE	SPEC NO.	REV
	MOTOR SPECIFICATION	4034-336	B
COMPUTER DATA BASE DRAWING		SHEET 2	

SPECIFICATIONS:	NOTES
STEPS PER REVOLUTION: 200	
STEP ANGLE: 1.8°	
STEP TO STEP ACCURACY: ±5%	1 2
POSITIONAL ACCURACY: ±5%	1 3
HYSTERESIS:	
WINDING RESISTANCE: 0.48 OHMS ± 10% AT 25°	7
WINDING INDUCTANCE: 2.5 mH ± 20%	8
PHASE VOLTAGE: 2.6 VDC	
PHASE CURRENT: 5.5 AMPS (RATED)	
SHAFT RUNOUT: .05mm T.I.R.	
RADIAL PLAY: .025mm MAX WITH .45 Kg RADIAL LOAD	
END PLAY: .025mm MAX WITH A 6.8 KG AXIAL LOAD	
ROTOR INERTIA: 1.87 KG-CM ² REF	
HOLDING TORQUE: 32.4 KG-CM MIN	1
DETENT TORQUE: .40 KG-CM MIN	
INSULATION CLASS: B	
BEARINGS: ABEC 3, DOUBLE SHIELDED	
TEMPERATURE RISE: 80°C MAX	9
OPERATING TEMPERATURE RANGE: -20 TO 50°C	
STORAGE TEMPERATURE RANGE: -40 TO 70°C	
RELATIVE HUMIDITY RANGE: 5 TO 95%	
MAX OVERHANG LOAD: 11.32 KG	
MAX THRUST LOAD: 22.64 KG	
WEIGHT: 3.5 KG	

STEP	RED	RED/WHT	GREEN	GRN/WHT
0	ON	OFF	ON	OFF
1	OFF	ON	ON	OFF
2	OFF	ON	OFF	ON
3	ON	OFF	OFF	ON
4	ON	OFF	ON	OFF

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

