SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 1400 G–CM ^{2} (7.65 OZ–IN^2) NOM
STEP ANGLE: 1.8°	HOLDING TORQUE: 20.0KG–CM (278 OZ–IN)MIN [1]
STEP TO STEP ACCURACY: ± 5 % [1], [2]	DETENT TORQUE: N/A G–CM (N/A OZ–IN)
POSITIONAL ACCURACY: ± 5 % [1], [3]	
HYSTERESIS: %	INSULATION CLASS: B
WINDING RESISTANCE: 0.48 OHM ±10% AT 25° [7]	BEARINGS: ABEC 3 , DOUBLE SHIELDED
WINDING INDUCTANCE: 1.9 mH ± 20% [8]	
PHASE VOLTAGE: 2.0 VDC	TEMP. RISE: 80°C MAX. [9]
PHASE CURRENT: 4.5 AMP (RATED) [12]	OPERATING TEMP. RANGE: –20 TO +50°C
	STORAGE TEMP. RANGE: –40 TO 70°C
SHAFT RUNOUT: 0.05 T.I.R.	RELATIVE HUMIDITY RANGE: 5 TO 95 %
RADIAL PLAY: 0.02 MAX W/A .45KG RADIAL LOAD.	THERMAL RESISTANCE, WIND'G to AMBIENT:2°C/WATT
END PLAY: 0.08 MAX W/A .45KG AXIAL LOAD.	
	WEIGHT: 1.75 KG (3.86 LB)

HT34–474

REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
4347	A	INITIAL RELEASE	7/24/01	K. Kordik
4372	B	CHG LEAD LENGTH WAS 305	12/17/01	RHazelwood
4374	C	CHNG TO BIPOLAR PARALLEL	1/14/02	RHazelwood
5017	D	ADD 4–40 HOLES TO REAR	9/6/02	RHazelwood
5023	E	Chng tol –shaft lgth & flats	12/12/02	RHazelwood
5235	F	ADD EU COMPLIANCE NOTES	8/25/05	R. Hazelwood

NOTES, UNLESS OTHERWISE SPECIFIED:

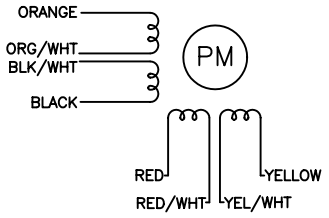
[1] MEASURMENTS MADE AT RATED CURRENT IN EACH PHASE.
[2] BETWEEN ANY TWO ADJACENT STEP POSITIONS.
[3] MAXIMUM ERROR IN 360°.
4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
5. LEADS: 8 ,AWG 22,7 STRAND MIN.,UL AND CSA APPROVED, UL 3266.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
[7] AS MEASURED ACROSS ANY WINDING.
[8] AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz, 1 AMP.
[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 LAMINATED CONSTRUCTION.
[12] UNIPOLAR RATING.
[13] ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED. (BOLT PATTERN IS SUPPLIED WHEN DOUBLE SHAFT IS REQUSTED.)
14. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
15. MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT.

BIPOLAR, FULL STEP, 2 PHASE ON PARALLEL CONNECTED

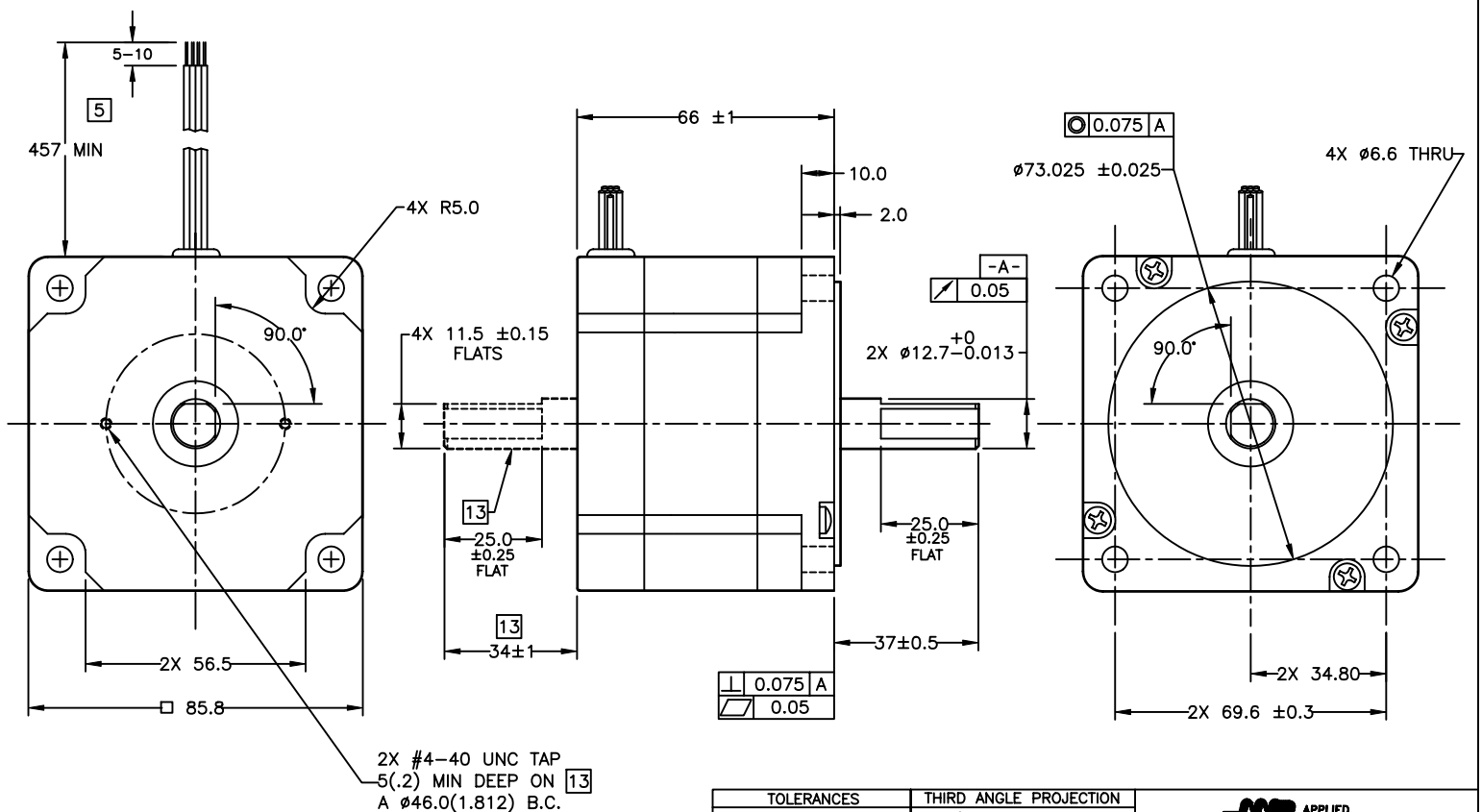
SWITCHING SEQUENCE FOR CW ROTATION FACING MOUNTING END

STEP	ORANGE & BLK/WHT	BLACK & ORN/WHT	RED & YEL/WHT	YELLOW & RED/WHT
0	+	–	+	–
1	–	+	+	–
2	–	+	–	+
3	+	–	–	+
4	+	–	+	–

CCW



CONTRACT NO. CAT 36050T833D	APPLIED MOTION PRODUCTS, INC.
APPROVALS / DATE	STEP MOTOR OUTLINE
DRAWN R. BARRICK 7/16/01	
CHECKED K. Kordik 7/24/01	B — COMPUTER DATA BASE DRAWING — DWG NO. HT34–474 — REV F
APPROVED K. Kordik 7/24/01	
APPROVED	SCALE: 1=1 — SHEET 1 OF 2



TOLERANCES: DECIMALS: MM (INCH) X.XXX= ±0.01 (.005) X.XX = ±0.10 (.010) X.X = ±0.20 (.020) ANGLES: MACH. = ±.5° CHAM. = ±5°	THIRD ANGLE PROJECTION
COMPUTER DATA BASE DRAWING	APPROVALS / DATE: DRAWN R. BARRICK 7/16/01; CHECKED K. Kordik 7/17/01; APPROVED K. Kordik 7/17/01
APPLIED MOTION PRODUCTS, INC.	STEP MOTOR OUTLINE
B — DWG NO. HT34–474 — REV F	SCALE: FULL — SHEET 2 OF 2