SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 4.0 G–CM ^{2} (.022 OZ–IN^2)
STEP ANGLE: 1.8°	HOLDING TORQUE: 270 G–CM (3.75 OZ–IN)MIN [1]
STEP TO STEP ACCURACY: ±5 % [1] , [2]	DETENT TORQUE: 10.0 G–CM (.14 OZ–IN) MIN
POSITIONAL ACCURACY: ±5 % [1] , [3]	
HYSTERESIS: _ %	INSULATION CLASS: E
WINDING RESISTANCE: 16.0 OHM ±10% AT 25° [7]	BEARINGS: ABEC 3 , DOUBLE SHIELDED
WINDING INDUCTANCE: 7.2 mH ± 20% [8]	WEIGHT: 0.085kg (.19 LB)
PHASE VOLTAGE: 5.6 VDC	TEMP. RISE: 80 °C MAX. [9]
PHASE CURRENT: 0.35 AMP (RATED)	OPERATING TEMP. RANGE: –20 TO 50 °C
	STORAGE TEMP. RANGE: –40 TO 70 °C
SHAFT RUNOUT: 0.025(.001) T.I.R. MAX	RELATIVE HUMIDITY RANGE: 5 TO 95 %
RADIAL PLAY: 0.025(.001) MAX W/0.5KG(1.1LB)LOAD.	
END PLAY: 0.075(.003) MAX W/1.0KG(2.2LB)LOAD.	

HT08–021

REVISIONS

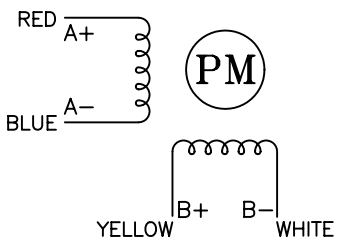
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5045	A	INITIAL RELEASE	4/30/03	R. Hazelwood

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, 60 Hz FOR ONE MINUTE.
5. LEADS: 4 ,AWG 26,7 STRAND MIN.,UL AND CSA APPROVED, UL 1061.
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.
[9] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.

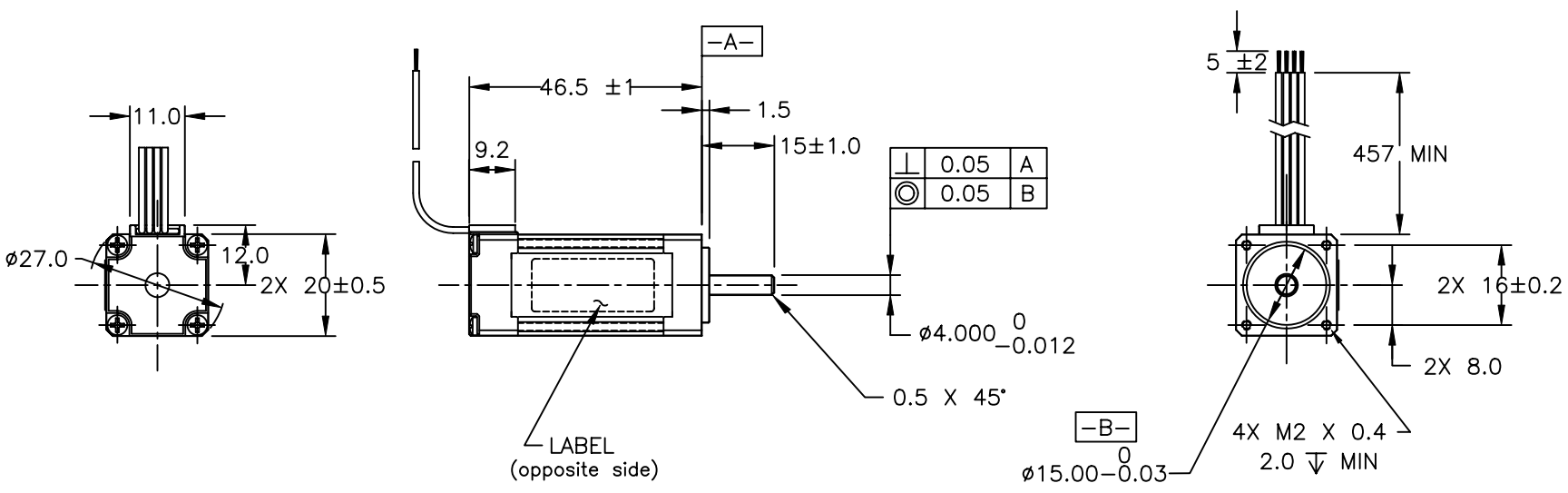
SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

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

CW



CONTRACT NO. CAT 036920004S30		APPLIED MOTION PRODUCTS, INC.	
APPROVALS	DATE	STEP MOTOR OUTLINE	
DRAWN R. BARRICK	3/18/03		
CHECKED R. Hazelwood	4/30/03	B — COMPUTER DATA BASE DRAWING — DWG NO. HT08–021 — REV A	
APPROVED R. Hazelwood	4/30/03		
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	
COMPUTER DATA BASE DRAWING	APPROVALS / DATE	B — DWG NO. HT08–021 — REV A	
	DRAWN R. BARRICK 3/18/03		
	CHECKED R. Hazelwood 4/30/03		
	APPROVED R. Hazelwood 4/30/03	SCALE: 1=1	SHEET 2 OF 2