

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 82.0 G-CM ² (0.44 OZ-IN ²) REF
STEP ANGLE: 1.8°	DETENT TORQUE: 244.7 G-CM (3.39 OZ-IN) MIN
STEP TO STEP ACCURACY: ±5 % [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY: ±5 % [1], [3]	BEARINGS: ABEC 3, DOUBLE SHIELDED
HYSTERESIS: - %	WEIGHT: 360 G (12.6 OZ) APPROXIMATE
SHAFT RUNOUT: 0.03 T.I.R.	TEMP. RISE: 80 °C MAX. [8]
RADIAL PLAY: 0.02 MAX W/A .5KG RADIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
END PLAY: 0.08 MAX W/A .5KG AXIAL LOAD	STORAGE TEMP. RANGE: -30 TO +70 °C
	RELATIVE HUMIDITY RANGE: 15 TO 85 %

HT17-275D-CAA

REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
7710	A	INITIAL RELEASE	9/27/17	J KORDIK
7877	B	DIMENSION MISSING	3/8/18	J KORDIK

[7]

SPECIFICATION CONNECTION	NUMBER OF PHASE	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	RATED VOLTAGE V	HOLDING TORQUE N.m Min
BI-POLAR SERIES	2	6.6	12.8	0.85	5.6	0.55
BI-POLAR PARALLEL	2	1.7	3.2	1.70	2.9	0.55
UNI-POLAR	4	3.3	3.2	1.20	4.0	0.39

[1]

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 500 VAC, 60 Hz FOR ONE MINUTE.
5. LEADS: 8, 26 AWG, 7 STRAND MIN., UL AND CSA APPROVED, UL 1430 OR UL 3265.
6. INSULATION RESISTANCE: 100 MEGAOHMS MIN AT 500 VDC.
- [7] AS MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz.
- [8] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- [9] ENCODER 970-1024 INSTALLED PER AMP ASSEMBLY PRACTICES. ENCODER CABLE SOLD SEPARATELY.
10. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.
- [11] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.
12. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.

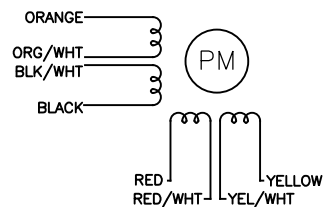
**DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP**

STEP	ORANGE & BLK/WHT	BLACK & ORG/WHT	RED & YEL/WHT	YELLOW & RED/WHT
1	+	-	+	-
2	-	+	+	-
3	-	+	-	+
4	+	-	-	+

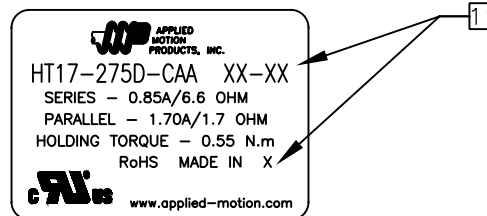
CW (down arrow) CCW (up arrow)

CW(CLOCKWISE) AND CCW(COUNTER-CLOCKWISE) ROTATION WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

WIRING DIAGRAM

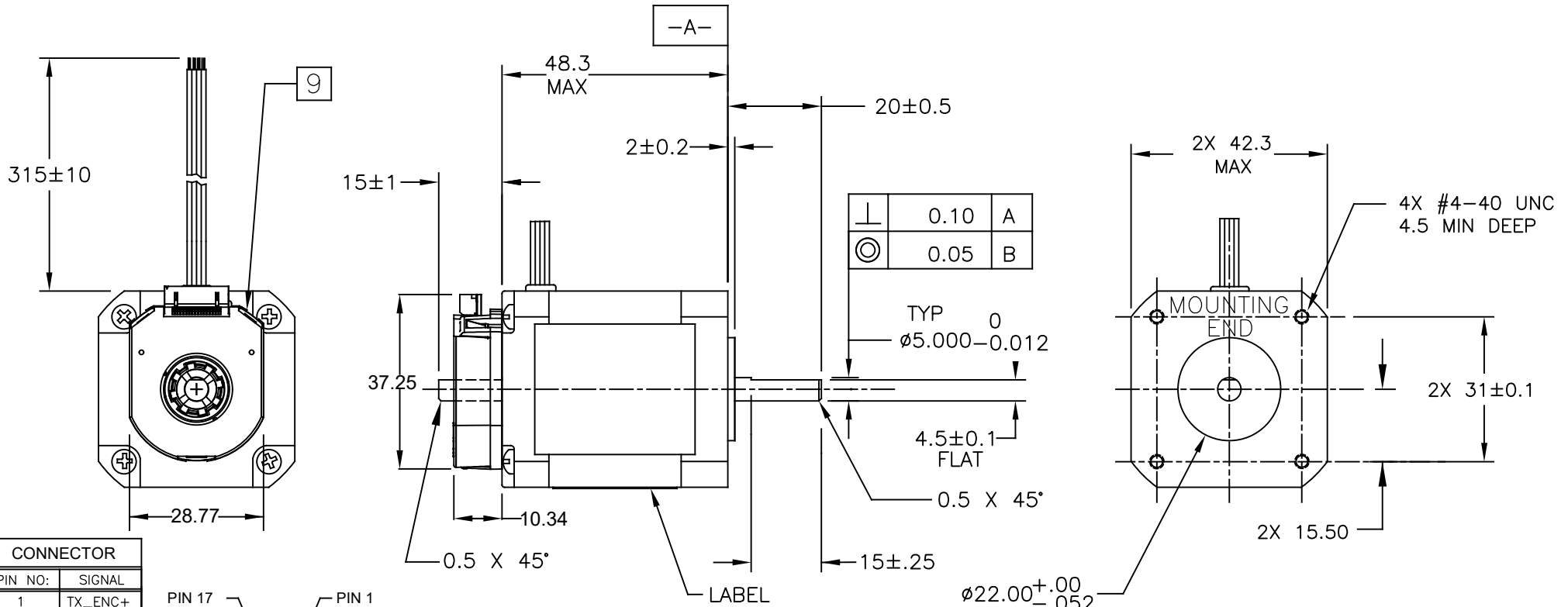


LABEL DETAIL



CONTRACT NO.		APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	STEP MOTOR OUTLINE			
DRAWN <i>N.DEY</i>	9/11/17				
CHECKED <i>K.KESLER</i>	9/22/17	B	COMPUTER DATA BASE DRAWING	DWG. NO. HT17-275D-CAA	REV B
APPROVED			SCALE: 3:4	SHEET 1 OF 2	

MOTOR DRAWING



\perp	0.10	A
\odot	0.05	B

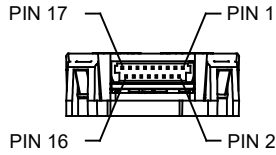
TYP $\phi 5.000^{0}_{-0.012}$

4.5 ± 0.1
FLAT

$0.5 \times 45^\circ$

$\phi 22.00^{+.00}_{-.052}$

CONNECTOR	
PIN NO:	SIGNAL
1	TX_ENC+
2	RX_ENC+
3	N/A
4	GND
5	N/A
6	+5 V
7	N/A
8	B+
9	B-
10	A+
11	A-
12	Z+
13	Z-
14	MCLR B
15	N/A
16	N/A
17	N/A



TOLERANCES DECIMALS: MM X.XXX = ± 0.013 X.XX = ± 0.25 X.X = ± 2.5 ANGLES: MACH. = $\pm 5^\circ$ CHAM. = $\pm 5^\circ$	THIRD ANGLE PROJECTION 		
	APPROVALS DRAWN: <i>N. DEY</i> CHECKED: <i>K. KESLER</i> APPROVED:	DATE 9/11/17 9/22/17	
COMPUTER DATA BASE DRAWING	SCALE: 3:4	SHEET 2 OF 2	