

SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 480 G-CM <sup>2</sup> (2.62 OZ-IN <sup>2</sup> ) NOM
STEP ANGLE: 1.8°	DETENT TORQUE: N/A G-CM ( N/A OZ-IN) MIN
STEP TO STEP ACCURACY: ± 5 %	INSULATION CLASS: B
POSITIONAL ACCURACY: ± 5 %	BEARINGS: ABEC 3 , DOUBLE SHIELDED
HYSTERESIS: - %	WEIGHT: 1.0 KG (2.2 LB)
SHAFT RUNOUT: 0.05 T.I.R.	TEMP. RISE: 80 °C MAX.
RADIAL PLAY: 0.02 MAX W/0.45 KG RADIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
END PLAY: 0.08 MAX W/ 1.0 KG AXIAL LOAD	STORAGE TEMP. RANGE: -40 TO +70 °C
	RELATIVE HUMIDITY RANGE: 5 TO 95 %

[7] [8]						
SPECIFICATION CONNECTION	NUMBER OF PHASE	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	RATED VOLTAGE V	HOLDING TORQUE Nm Min
BI-POLAR SERIES	2	18	60.8	0.71	12.6	1.6
BI-POLAR PARALLEL	2	4.5	15.2	1.41	6.3	1.6
UNI-POLAR	4	9.0	15.2	1.00	9.0	1.3

NOTES, UNLESS OTHERWISE SPECIFIED:

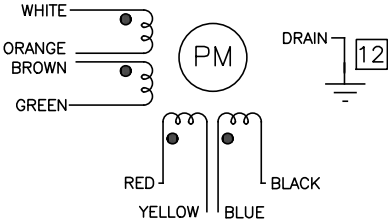
- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 8, 24AWG, 7 STRAND MIN.,UL AND CSA APPROVED, UL 1430 OR UL 3265. CABLE, 8 COND. W/DRAIN. CABLE 666-2107
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [7] MEASUREMENTS MADE WITHOUT CABLE.
- [8] AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz. MEASUREMENTS MADE WITHOUT CABLE.
- [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, MICROSTEP LAMINATION.
11. ROTOR & STATOR LAMINATED CONSTRUCTION.
- [12] DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
13. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- [14] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, DATE CODE AND "MADE IN (COUNTRY OF ORIGIN)".
- [15] ENCODER 970-1001 INSTALLED PER AMP ASSEMBLY PRACTICES. ENCODER CABLE SOLD SEPARATELY..

BIPOLAR, FULL STEP, 2 PHASE ON  
SERIES CONNECTED

SWITCHING SEQUENCE FOR CW ROTATION  
FACING MOUNTING END

WITH ORANGE WIRE CONNECTED TO BROWN,  
YELLOW CONNECTED TO BLUE.

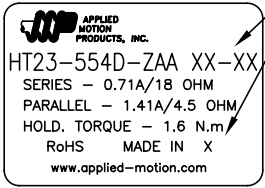
STEP	WHITE	GREEN	RED	BLACK
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-




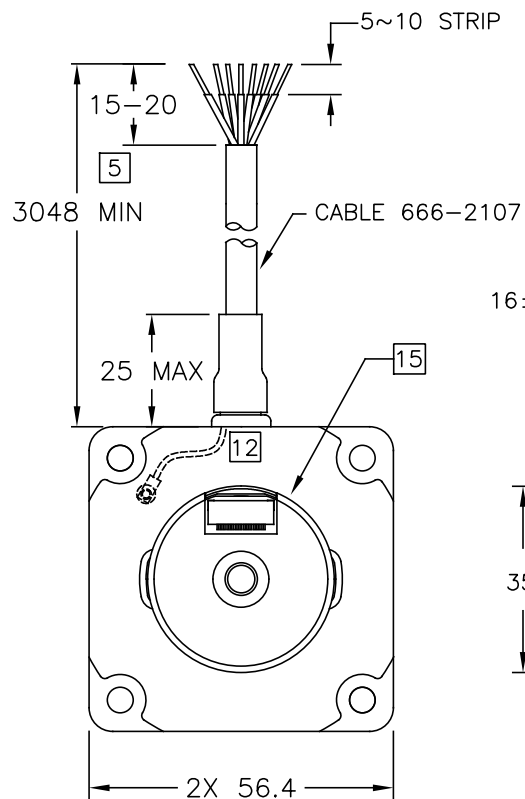
HT23-554D-ZAA

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6941	A	INITIAL RELEASE	6/16/14	J KORDIK
8034	B	CHG REAR SHAFT LENGTH/TYPO	8/28/18	M.Maroney

LABEL DETAIL



CONTRACT NO. —		 APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	STEP MOTOR OUTLINE			
DRAWN R.JONEZ	3/18/14				
CHECKED					
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT23-554D-ZAA	REV B
APPROVED				SHEET 1 OF 2	

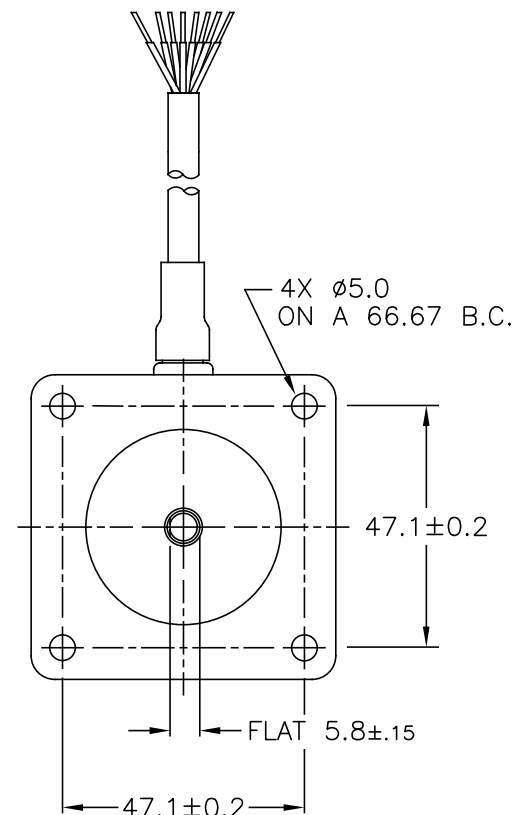
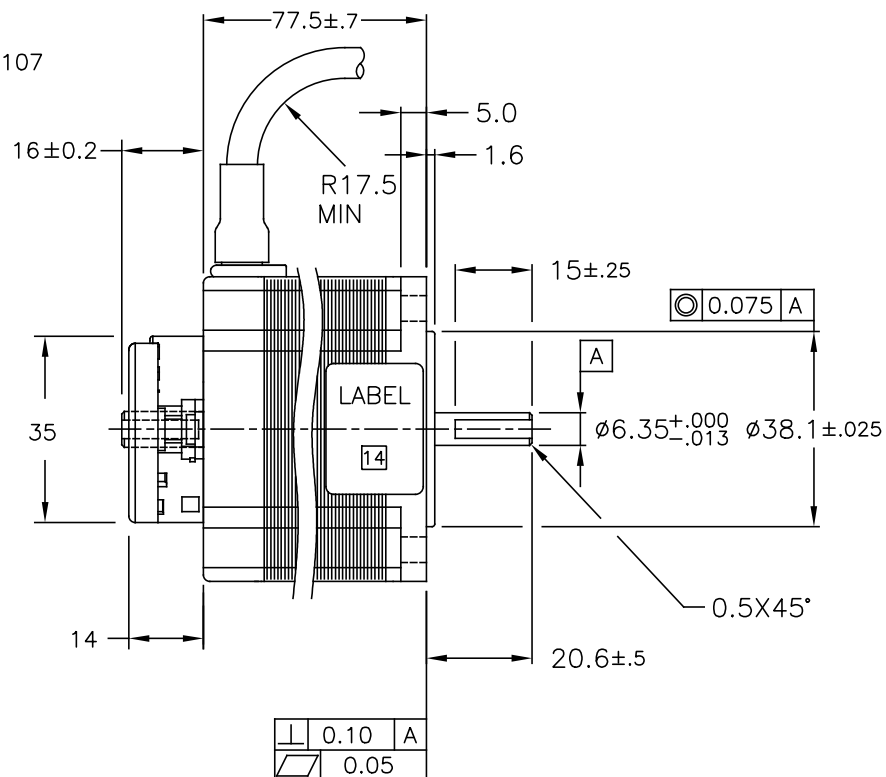
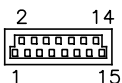


ENCODER RESOLUTION: 2000 cpr  
WITH MARKER PULSE.


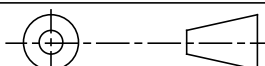
ENCODER PINOUTS

PIN	SIGNAL
1	CH A
2	CH A-
3	CH B
4	CH B-
5	INDEX
6	INDEX-
7	N/C
8	N/C
9	N/C
10	N/C
11	N/C
12	N/C
13	+Vcc
14	GND
15	N/C

15



ALL DIMENSIONS ARE IN MILLIMETERS

TOLERANCES		THIRD ANGLE PROJECTION		 APPLIED MOTION PRODUCTS, INC.	
DECIMALS: MM (INCH) X.XXX= ± (.005) X.XX = ±0.13 (.010) X.X = ±0.25 (.020) ANGLES: MACH. = ±.5° CHAM. = ±5°					
COMPUTER DATA BASE DRAWING		APPROVALS		STEP MOTOR OUTLINE	
		DATE			
		DRAWN R.JONEZ		8/18/14	
CHECKED				B DWG NO. HT23-554D-ZAA REV B	
APPROVED				SCALE: NONE SHEET 2 OF 2	

# Mouser Electronics

Authorized Distributor

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[HT23-554D-ZAA](#)