

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 220 G-CM ² (3.12X10 ⁻³ oz-in-sec ²) NOM
STEP ANGLE: 1.8°	INSULATION CLASS: B
STEP TO STEP ACCURACY: ±0.09 DEGREE [1], [2]	WEIGHT: 0.55 KG (1.21 LB)
RADIAL PLAY: 0.02 mm MAX W/.5KG RADIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
END PLAY: 0.08 MAX W/1.0 KG AXIAL LOAD	STORAGE TEMP. RANGE: -30 TO +70 °C
SHAFT RUNOUT: 0.05 T.I.R.	TEMP. RISE: 80 °C MAX. [9]
	RELATIVE HUMIDITY RANGE: 15 TO 99 %

CONNECTION	[7]	[8]	[1]	[1]		
	SPECIFICATION	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	HOLDING TORQUE N-m Min	HOLDING TORQUE oz-in Min
BI-POLAR SERIES		13.6	51.2	0.71	1.08	153
BI-POLAR PARALLEL		3.4	12.8	1.41	1.08	153
UNI-POLAR		6.8	12.8	1.00	0.83	117

NOTES, UNLESS OTHERWISE SPECIFIED:

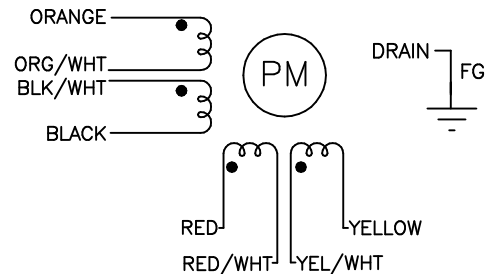
- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
3. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 8, 22 AWG, 7 STRAND MIN., UL AND CSA APPROVED, 105°C RATED SHIELDED CABLE 666-2126, 8 COND W/DRAIN.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [7] MEASUREMENTS MADE AT LEAD ENDS.
- [8] MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz AT LEAD ENDS.
- [9] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
10. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION, INTENDED FOR USE WITH 120V DRIVES WHEN WINDINGS CONNECTED IN PARALLEL AND WITH 220V DRIVES WHEN WINDINGS CONNECTED IN SERIES.
11. ROTOR & STATOR LAMINATED CONSTRUCTION.
- [12] DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
- [13] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, DATE CODE AND "MADE IN (COUNTRY OF ORIGIN)".
- [14] MOTOR TO MEET IP65 STANDARDS. REAR END BELL OPTIONS INCLUDE A SOLID END BELL OR A BRASS PLUG COVERING THE SHAFT BEARING, A 3M LABEL MUST COVER THE BRASS PLUG. CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.
15. END BELLS TO BE PROTECTED WITH BLACK COATING.
16. THIS MOTOR IS MANUFACTURED IN COMPLIANCE WITH THE CURRENT EU RoHS DIRECTIVE.

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 ↑

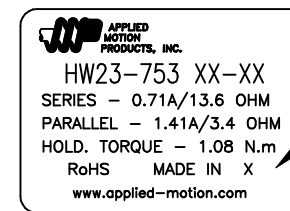


HW23-753

REVISIONS

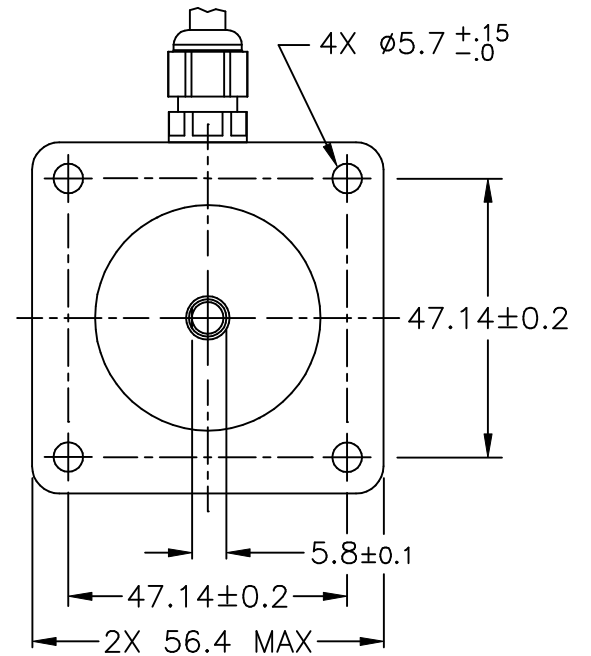
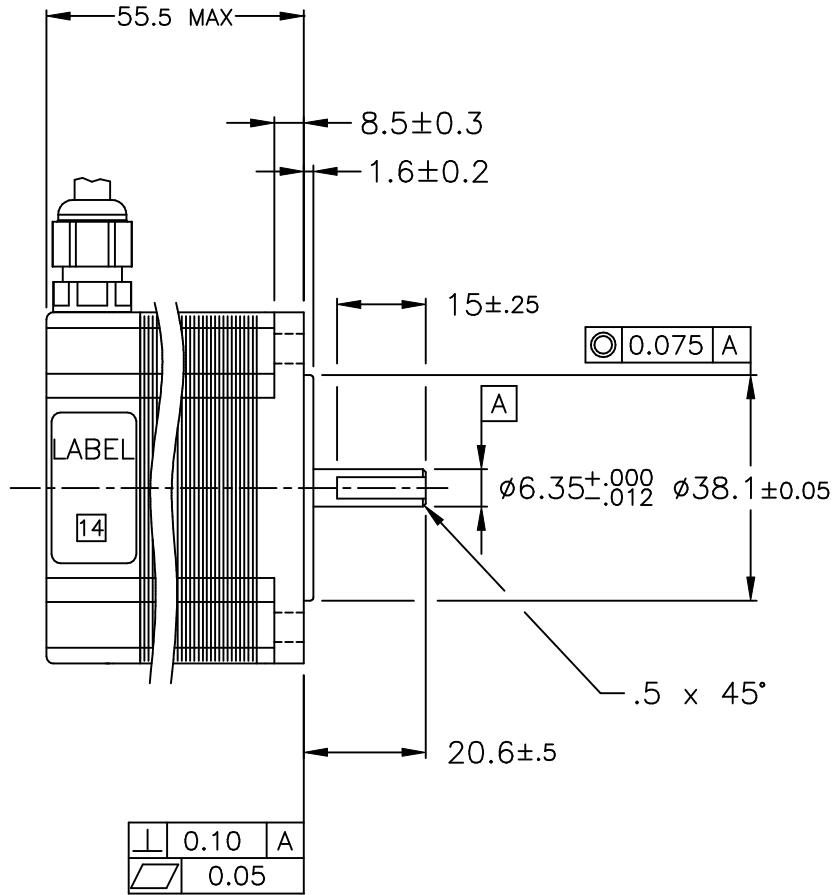
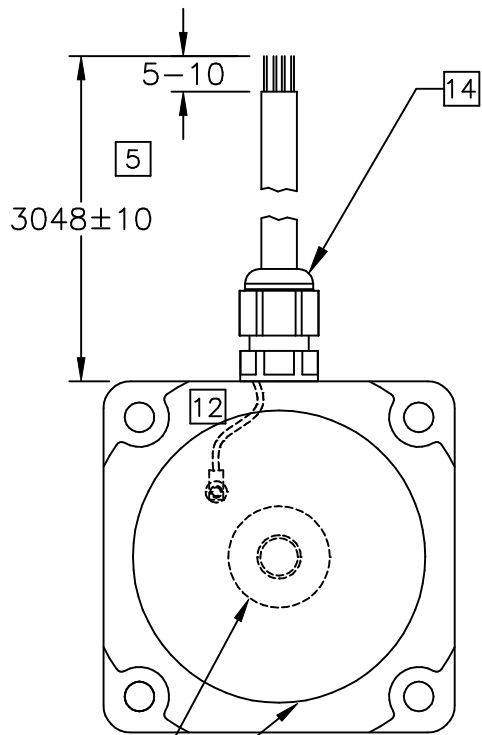
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6449	A	INITIAL RELEASE	3/7/12	J KORDIK
6470	B	REVISE MTG HOLE SIZE	3/13/12	J KORDIK
6356	C	REVISE SPECS PER MFGR	5/2/12	J KORDIK
6578	D	105°C CABLE/DRAWING CLEANUP	8/14/12	J KORDIK
6718	E	ADD BLACK COATING NOTE	3/15/13	J KORDIK
6729	F	REVISE NOTE 5	4/4/13	J KORDIK
7373	G	END BELL SEALING OPTIONS	2/12/16	J KORDIK
7445	H	ADD NOTE 16	6/6/16	J KORDIK

LABEL DETAIL



[13]

CONTRACT NO. -		APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	STEP MOTOR OUTLINE			
DRAWN <i>R. JONEZ</i>	<i>3/7/12</i>				
CHECKED		B	COMPUTER DATA BASE DRAWING	DWG NO. HW23-753	REV H
APPROVED			SCALE: NONE	SHEET 1 OF 2	



14 SEAL REAR SHAFT OPENING WITH A BRASS PLUG AND 3M 7872 LABEL OR USE A SOLID END BELL.

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		APPROVED				
		APPROVALS DRAWN <i>R. JONEZ</i> CHECKED		DATE 3/7/12		REV H
				DWG NO. B HW23-753		SCALE: NONE SHEET 2 OF 2