

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 460 G-CM ² (6.51E-03 oz-in-sec ²)NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 0.070 N-m (9.91 oz-in) MIN
STEP TO STEP ACCURACY: ±0.09 DEGREES [1], [2]	INSULATION CLASS: B
RADIAL PLAY: 0.02 mm MAX W/.5KG RADIAL LOAD	WEIGHT: 1.0 KG (2.2 LB)
END PLAY: 0.08 MAX W/1.0 KG AXIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
SHAFT RUNOUT: 0.05 T.I.R.	STORAGE TEMP. RANGE: -30 TO +70 °C
TEMP. RISE: 80 °C MAX. [8]	RELATIVE HUMIDITY RANGE: 15 TO 99 %

	[3]	[7]	[1]	[1]
SPECIFICATION	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	HOLDING TORQUE N-m Min
BI-POLAR SERIES	2.2	6.8	2.12	1.90
BI-POLAR PARALLEL	0.7	1.7	4.24	1.90
UNI-POLAR	1.1	1.7	3.00	1.35

NOTES, UNLESS OTHERWISE SPECIFIED:

- [1] MEASUREMENTS MADE AT RATED CURRENT IN BOTH PHASES.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- [3] MEASUREMENTS MADE AT LEAD ENDS.
- 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. DRAIN WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL.
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [7] MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz AT LEAD ENDS.
- [8] AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- 9. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION, INTENDED FOR USE WITH 80VDC DRIVES WHEN WINDINGS CONNECTED IN PARALLEL AND WITH 160VDC DRIVES WHEN WINDINGS CONNECTED IN SERIES.
- 10. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- [11] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.
- [12] CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.
- [13] ENCODER 970-1001 INSTALLED PER AMP ASSEMBLY PRACTICES. ENCODER CABLE SOLD SEPARATELY.
- 14. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.

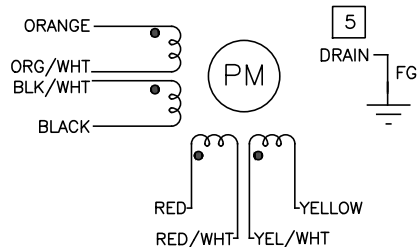
BIPOLAR, FULL STEP, 2 PHASE ON PARALLEL CONNECTED

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	+	-	+	-

CW ↓

↑ CCW

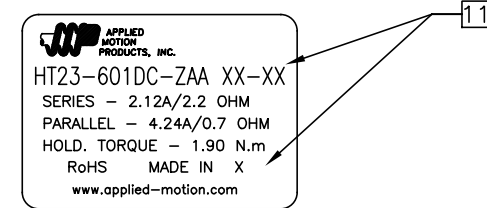


HT23-601DC-ZAA

REVISIONS

ECO NO.	REV	DESCRIPTION	DATE	APPROVED
6860	A	INITIAL RELEASE	10/16/13	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	10/10/13				
CHECKED					
APPROVED					
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT23-601DC-ZAA	REV B
APPROVED		SCALE: NONE			SHEET 1 OF 2

