

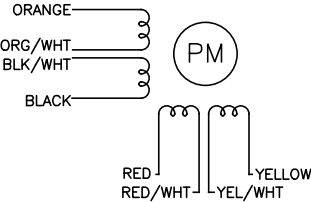
SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 260 G-CM ² (1.42 OZ-IN ²) NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 408 G-CM (5.66 OZ-IN) MIN
STEP TO STEP ACCURACY:±.09 DEGREES 1 , 2	INSULATION CLASS: B
POSITIONAL ACCURACY: ±5 % 1 , 3	BEARINGS: ABEC 3 , DOUBLE SHIELDED
HYSTERESIS:— %	WEIGHT: 0.6 KG (1.32 LB)
SHAFT RUNOUT: 0.05 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 %

7						
SPECIFICATION	NUMBER OF PHASE	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	HOLDING TORQUE Nm Min	HOLDING TORQUE oz-in
CONNECTION						1
BI-POLAR SERIES	2	3.6	10.8	1.41	1.25	177
BI-POLAR PARALLEL	2	0.9	2.7	2.83	1.25	177
UNI-POLAR	4	1.8	2.7	2.00	0.90	127.45

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, 22AWG, 7 STRAND MIN.,UL AND CSA APPROVED, UL 1430 OR UL 3265.
6. INSULATION RESISTANCE: 100 MEGOHMS 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 SHAFT OPTION: IF DOUBLE SHAFT REQUIRED ADD "D" TO END OF PART NUMBER. DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTIONS.
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.

WIRING DIAGRAM



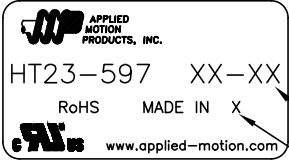
DRIVE SEQUENCE MODEL
BI-POLAR FULL STEP

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

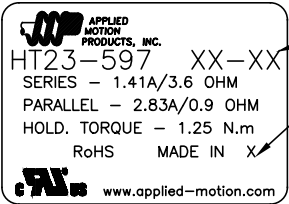
CW(CLOCKWISE) AND CCW(COUNTER-CLOCKWISE) ROTATION
WHEN SEEN FROM THE FLANGE SIDE OF THE MOTOR

HT23-597

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5976	A	INITIAL RELEASE	8/28/09	J KORDIK
6090	B	STANDARDIZE ENCODER HOLES	3/29/10	J KORDIK
6807	C	REVISE FLANGE THICKNESS	9/9/13	J KORDIK
7445	D	REVISE NOTE 10	6/6/16	J KORDIK
8250	E	ADD UL TO LABEL, REMOVE HOLE	6/5/19	J KORDIK
8307	F	REVISE MOUNTING TABS	8/14/19	J KORDIK



LABEL DETAIL
BOTH OPTIONS ACCEPTABLE



CONTRACT NO. -		APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	STEP MOTOR OUTLINE		
DRAWN R.JONEZ	8/20/09			
CHECKED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT23-597
APPROVED				REV F
APPROVED			SCALE: NONE	SHEET 1 OF 2

Technical drawing of a square flange with four mounting holes. The drawing includes three views: front, side, and top.

Front View:

- Overall width: 56.4 MAX
- Overall height: 47.14 ± 0.20
- Four mounting holes: $4 \times \phi 5.1^{+0.2}_{-0}$
- Central hole: $\phi 19.05 \text{ B.C.}$
- Four corner fillets: $4 \times R4.6$
- Two sets of mounting holes: $2 \times \#4-40 \text{ UNC TAP THRU EQ SP ON A}$
- Two sets of mounting holes: $2 \times \#2-56 \text{ UNC TAP THRU EQ.SP. ON A } \phi 32.5 \text{ B.C.}$
- Dimension 5.8 ± 0.1 is shown for the distance from the center to the mounting holes.

Side View:

- Overall width: 55 MAX
- Overall height: 15 ± 0.2
- Dimension 4.8 ± 0.3 is shown for the distance from the center to the mounting holes.
- Dimension 1.6 ± 0.2 is shown for the distance from the center to the mounting holes.
- Dimension 20 ± 0.5 is shown for the distance from the center to the mounting holes.
- Dimension 16 ± 1 is shown for the distance from the center to the mounting holes.
- Dimension 15 ± 0.2 is shown for the distance from the center to the mounting holes.
- Dimension $0.5 \times 45^\circ$ is shown for the chamfer.
- Dimension $\phi 6.35^{+0}_{-0.013}$ is shown for the hole diameter.
- Dimension $0.5 \times 45^\circ$ is shown for the chamfer.
- Dimension 0.10 is shown for the hole diameter.
- Dimension 0.05 is shown for the hole diameter.

Top View:

- Overall width: 56.4 MAX
- Overall height: 47.14 ± 0.20
- Four mounting holes: $4 \times \phi 5.1^{+0.2}_{-0}$
- Central hole: $\phi 19.05 \text{ B.C.}$
- Four corner fillets: $4 \times R4.6$
- Two sets of mounting holes: $2 \times \#4-40 \text{ UNC TAP THRU EQ SP ON A}$
- Two sets of mounting holes: $2 \times \#2-56 \text{ UNC TAP THRU EQ.SP. ON A } \phi 32.5 \text{ B.C.}$
- Dimension 5.8 ± 0.1 is shown for the distance from the center to the mounting holes.
- Dimension 28.2 is shown for the distance from the center to the mounting holes.
- Dimension 23.57 is shown for the distance from the center to the mounting holes.
- Dimension 0.05 is shown for the hole diameter.
- Dimension A is shown for the hole diameter.

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°				STEP MOTOR OUTLINE				
		APPROVALS	DATE					
		DRAWN <i>R. JONEZ</i>	<i>8/20/09</i>					
		CHECKED		B	DWG NO.	HT23-597	REV	F
COMPUTER DATA BASE DRAWING		APPROVED		SCALE: NONE		SHEET 2 OF 2		