

SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 1600G-CM ² (.0227 OZ-IN-SEC ²) NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 0.049N-m (6.9 OZ-IN) MIN
STEP TO STEP ACCURACY: ±.09 DEGREES [1], [2]	INSULATION CLASS: B
POSITIONAL ACCURACY: ±.09 DEGREES [1], [3]	BEARINGS: ABEC 3, DOUBLE SHIELDED
HYSTERESIS: N/A	WEIGHT: 2.1 KG (4.6 LB) MAX
SHAFT RUNOUT: 0.05mm T.I.R. MAX	TEMP. RISE: 80 °C MAX. [9]
RADIAL PLAY: 0.025mm MAX W/ .5KG RADIAL LOAD	OPERATING TEMP. RANGE: -20 TO +50 °C
END PLAY: 0.075mm MAX W/ 1KG AXIAL LOAD	STORAGE TEMP. RANGE: -40 TO +70 °C
	RELATIVE HUMIDITY RANGE: 5 TO 95 %

	7	8		1	1
SPECIFICATION	RESISTANCE PER PHASE OHM ±10%	INDUCTANCE PER PHASE mH ±20%	RATED CURRENT Amp	HOLDING TORQUE Nm Min	HOLDING TORQUE oz-in Min.
CONNECTION					
BI-POLAR SERIES	0.72	6.0	4.2	3.92	555
BI-POLAR PARALLEL	0.18	1.5	8.5	3.92	555
UNI-POLAR	0.36	1.5	6.0	3.25	460

NOTES, UNLESS OTHERWISE SPECIFIED:

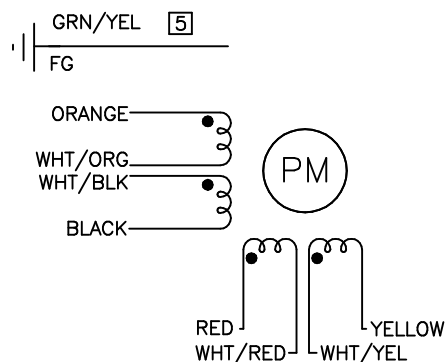
- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
4. HIPOT 1150 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 8, AWG 22, 7 STRAND MIN., UL AND CSA APPROVED, DRAIN: 1, AWG 24, UL 1430.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- [7] AS MEASURED ACROSS EACH PHASE.
- [8] AS MEASURED ACROSS EACH PHASE USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz.
- [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.
11. ROTOR & STATOR LAMINATED CONSTRUCTION.
- [12] ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED.
DOUBLE SHAFT REQUIRES ADDED HOLES FOR ENCODER OPTIONS.

PARALLEL CONNECTION

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

CW	STEP	BLK & WHT/ORG	ORANGE & WHT/BLK	RED & WHT/YEL	YELLOW & WHT/RED
	0	+	-	+	-
	1	-	+	+	-
	2	-	+	-	+
	3	+	-	-	+
	4	+	-	+	-

CCW

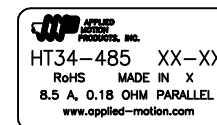


HT34-485

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
4383	A	INITIAL RELEASE	2/16/02	J.D.
4391	B	ADD ENCODER HOLES	3/14/02	J.D.
4393	C	CHG DRAIN, WAS: AWG 22		
5235	D	ADD EU COMPLIANCE NOTES	8/25/05	R. Hagelwood
5958	E	SPEC CHANGES	8/17/10	J. Kordik
6340	F	ADD ENCODER MTG HOLES, SPECS	9/12/11	E Rice
6386	G	DOC CLEANUP	1/24/12	E Rice
6554	H	DOC CLEANUP	7/3/12	E Rice

13. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH
EU DIRECTIVE "ROHS 2002/95/EC".

[14] MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)'
AND DATE CODE.

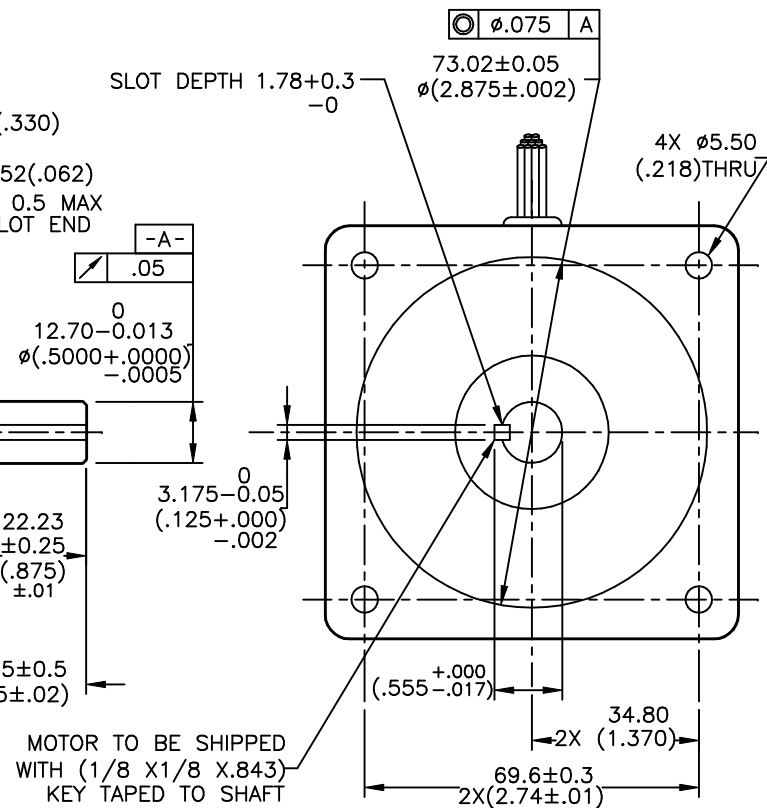
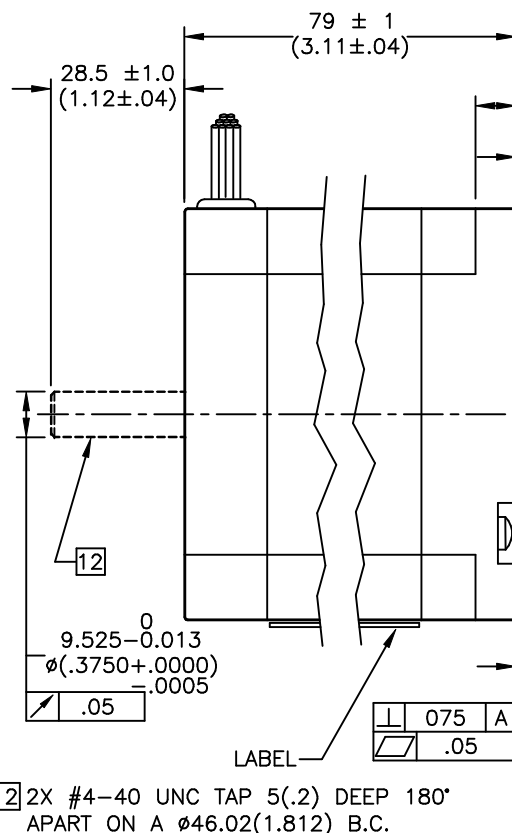
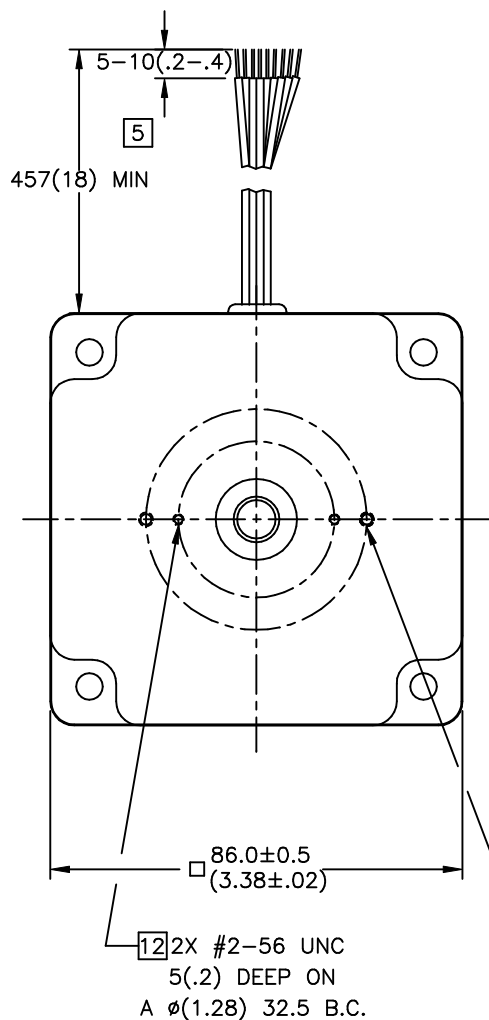


LABEL DETAIL

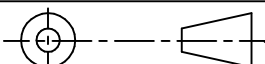


APPLIED
MOTION
PRODUCTS, INC.

CONTRACT NO. CAT TS3864N2435		STEP MOTOR OUTLINE		
APPROVALS	DATE			
DRAWN R. BARRICK	2/14/02	B		
CHECKED R. Hagelwood	2/15/02			
APPROVED J. Daley	2/16/02	COMPUTER DATA BASE DRAWING	DWG NO. HT34-485	REV H
APPROVED		SCALE: NONE	SHEET 1 OF 2	



SINGLE/DOUBLE SHAFT VERSION

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°						
APPROVALS		DATE		STEP MOTOR OUTLINE		
DRAWN R. BARRICK		2/14/02				
CHECKED R. Hagelwood		2/15/02		B	DWG NO. HT34-485	REV H
APPROVED J. Daley		2/16/02				
COMPUTER DATA BASE DRAWING				SCALE: NONE		SHEET 2 OF 2