

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 %

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

NOTES, UNLESS OTHERWISE SPECIFIED:

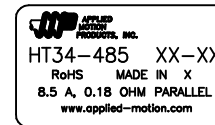
- [1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
- [2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- [3] MAXIMUM ERROR IN 360°.
4. HIPOT 1150 VAC, 60 Hz FOR ONE MINUTE.
- [5] LEADS: 8, AWG 22, 7 STRAND MIN., UL AND CSA APPROVED, DRAIN: 1, AWG 24, UL 1430.
6. INSULATION RESISTANCE: 100 MEGOHMS 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.

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	P. Hazelwood
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.



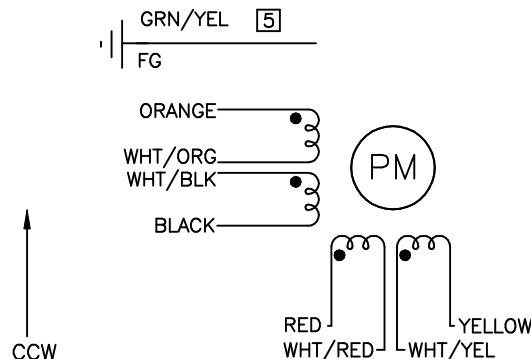
LABEL DETAIL

[14]

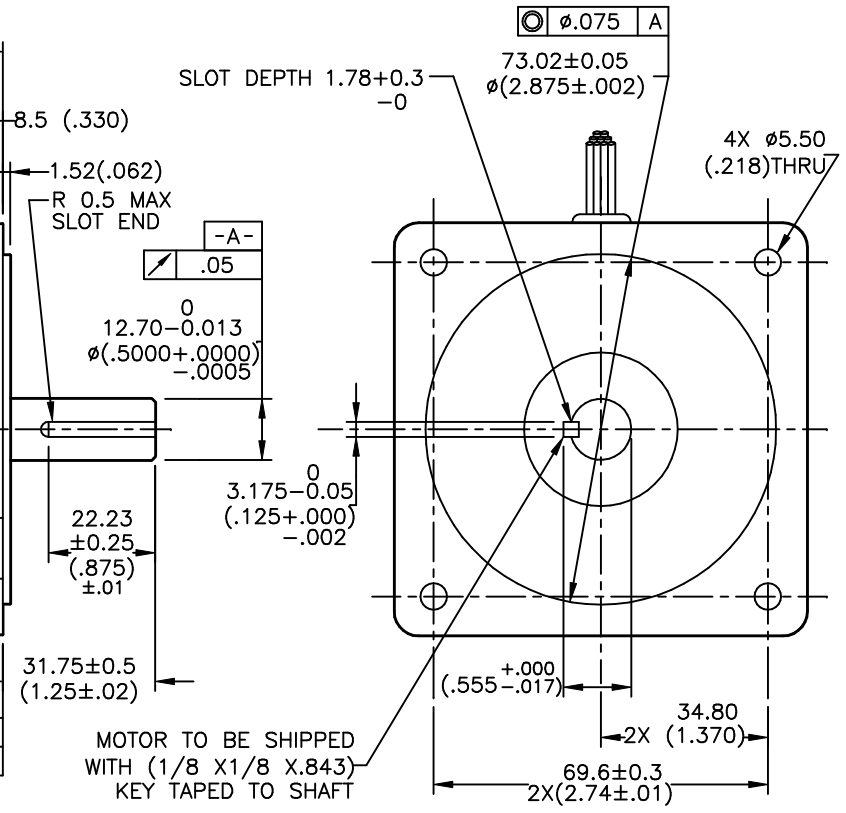
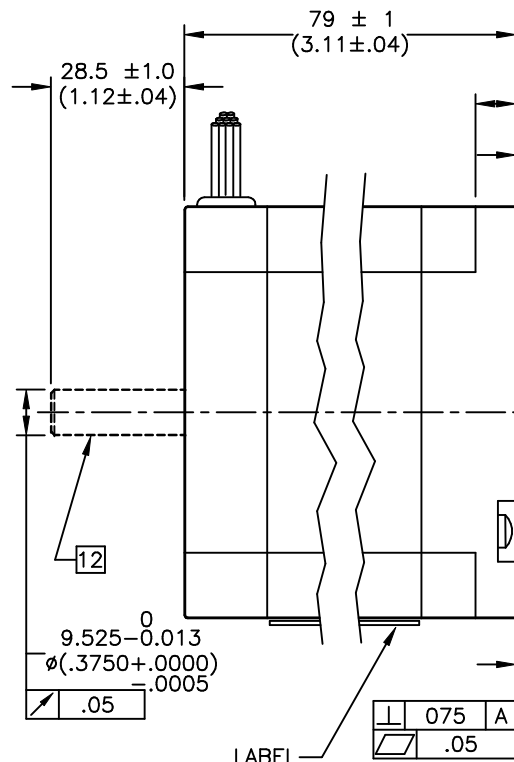
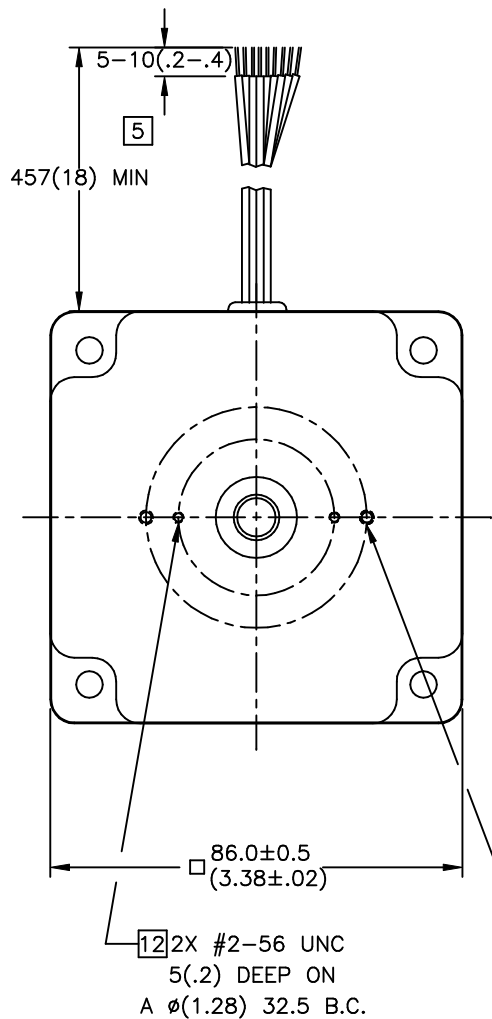
PARALLEL CONNECTION

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	+	-	+	-



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



SINGLE/DOUBLE SHAFT VERSION

TOLERANCES DECIMALS: MM (INCH) X.XXX = ± (.005) X.XX = ±0.13 (.010) X.X = ±0.25 (.020) ANGLES: MACH. = ±5° CHAM. = ±5°	THIRD ANGLE PROJECTION 			
	APPROVALS DRAWN <i>R. BARRICK</i> CHECKED <i>R. Hazelwood</i> APPROVED <i>J. Daley</i>		DATE 2/14/02 2/15/02 2/16/02	
	COMPUTER DATA BASE DRAWING		STEP MOTOR OUTLINE B DWG NO. HT34-485 REV H	
			SCALE: NONE SHEET 2 OF 2	