SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 1600 G–CM^2 (.0227 OZ–IN–SEC^2) NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 0.049 N–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 / CONNECTION	RESISTANCE PER PHASE OHM ±10% [7]	INDUCTANCE PER PHASE mH ±20% [8]	RATED CURRENT Amp	HOLDING TORQUE Nm Min [1]	HOLDING TORQUE oz–in Min. [1]
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:

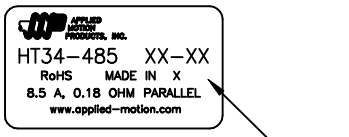
[1] MEASUREMENTS MADE AT RATED CURRENT IN EACH PHASE.
[2] BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
[3] MAXIMUM ERROR IN 360°.
4. HIPOT 1150 VAC, 60 Hz FOR ONE MINUTE.
[5] LEADS: 8, AWG 22, 7 STRAND MIN.,UL AND CSA APPROVED, DRAIN: 1,AWG 24, UL 1430.
6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 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.

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. 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

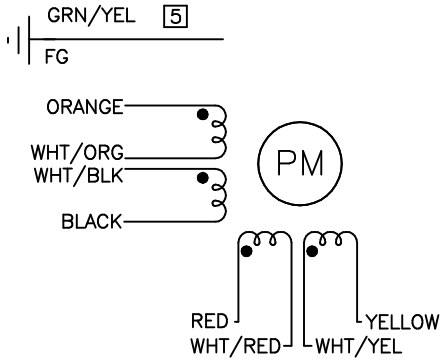
PARALLEL CONNECTION

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

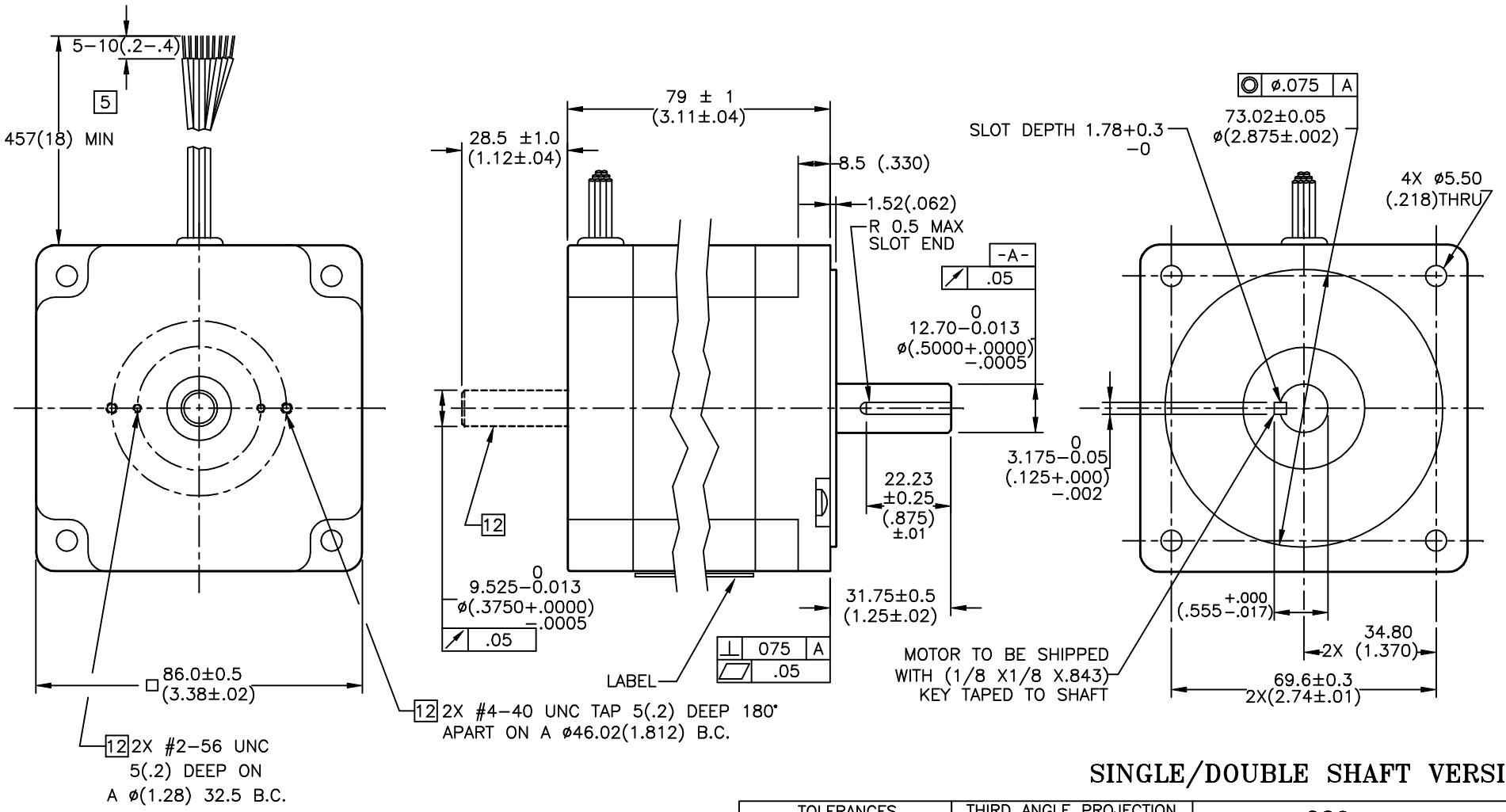
CW ↓

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

↑ CCW



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

Mouser Electronics

Authorized Distributor

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Applied Motion:

HT34-485D