

SPECIFICATIONS:	
STEPS PER REVOLUTION: 200	ROTOR INERTIA: 1.4 G-CM ² (7.8 OZ-IN ²) NOM
STEP ANGLE: 1.8°	HOLDING TORQUE: 40 Kg-cm (555 OZ-IN) MIN ¹
STEP TO STEP ACCURACY: ±5 % ¹ , ²	DETENT TORQUE: 0.5 Kg-cm (7 OZ-IN) MIN
POSITIONAL ACCURACY: ±5 % ¹ , ³	
HYSTERESIS: 5 %	INSULATION CLASS: B
WINDING RESISTANCE: 0.76 OHM ±10% AT 25° ⁷	BEARINGS: ABEC 3, DOUBLE SHIELDED
WINDING INDUCTANCE: 5.2 mH ± 20% ⁷ , ⁸	
PHASE VOLTAGE: 3.2 VDC ⁷	TEMP. RISE: 80 °C MAX. ⁹
PHASE CURRENT: 4.3 AMP [(RATED) SERIES] ¹²	OPERATING TEMP. RANGE: -20 TO +50°C
	STORAGE TEMP. RANGE: -40 TO +70°C
SHAFT RUNOUT: 0.05 T.I.R.	RELATIVE HUMIDITY RANGE: 5 TO 95 %
RADIAL PLAY: 0.025 MAX W/A .5KG RADIAL LOAD	
END PLAY: 0.075 MAX W/A 1KG AXIAL LOAD	

HT34-488

REVISIONS				
ECO NO.	REV	DESCRIPTION	DATE	APPROVED
5194	A	INITIAL RELEASE	2/25/05	R. HAZELWOOD
5205	B	Cable assy changed	4/5/05	R. HAZELWOOD
5208	C	NOTE 5 AND 16 CHANGE		
5219	D	SPEC CHANGES	6-9-05	R. HAZELWOOD
5221	E	SPEC CHANGES	8-12-05	R. HAZELWOOD
5235	F	ADD EU COMPLIANCE NOTES	8/25/05	R. Hazelwood
5242	G	CORRECT SPEC REF ECO	9/22/05	R. Hazelwood

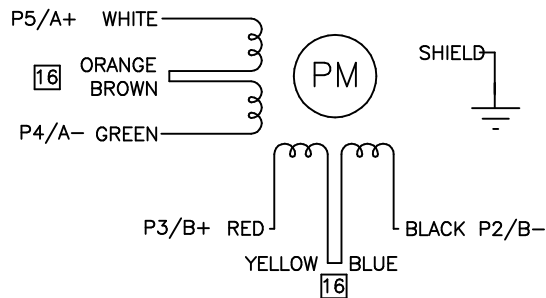
NOTES, UNLESS OTHERWISE SPECIFIED:


- 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 CABLE ASSY: 3004 196 (8 CORE, 22 AWG)
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- ⁷ AS MEASURED ACROSS ANY WINDINGS CONNECTED IN SERIES, WITHOUT CABLE. WITH CABLE = 1.6 OHM.
- ⁸ AS MEASURED ACROSS ANY WINDING USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz, WITHOUT CABLE.
- ⁹ AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED VOLTAGE APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- 10. HIGH TORQUE MOTOR DESIGN.
- 11. ROTOR & STATOR LAMINATED CONSTRUCTION.
- ¹² POWER SUPPLY VOLTAGE TO AMPLIFIER 80V OR LESS. IF GREATER THAN 80 VOLTS RATED CURRENT IS 4.3 AMPS, SERIES CONNECTED, W/50% DUTY CYCLE. (MOTOR MAY BE LEFT ENERGIZED AT 50% CURRENT BETWEEN CYCLES.) CURRENT RATING WITH STAC-6 = 5.1 AMP.
- ¹³ ADD "D" TO END OF PART NUMBER IF DOUBLE SHAFT IS REQUIRED.
- ¹⁴ SHIELD WIRE TO BE CONNECTED TO INSIDE OF REAR ENDBELL
- ¹⁵ RUBBER GROMMET & STRAIN RELIEF MOUNT ON LEAD EXIT. AFTER INSTALATION OF STRAIN RELIEF, SLIDE HEAT SHRINK OVER GROMMET & APPLY HEAT.
- ¹⁶ SOLDER CENTER TAP WIRES TOGETHER, WRAP WITH HEAT SHRINK AND CONCEAL WITHIN BOOT.
- 17 SEE SEPERATE BOM FOR PARTS LISTING.
- 18. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- 19. MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT.

SERIES CONNECTION

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

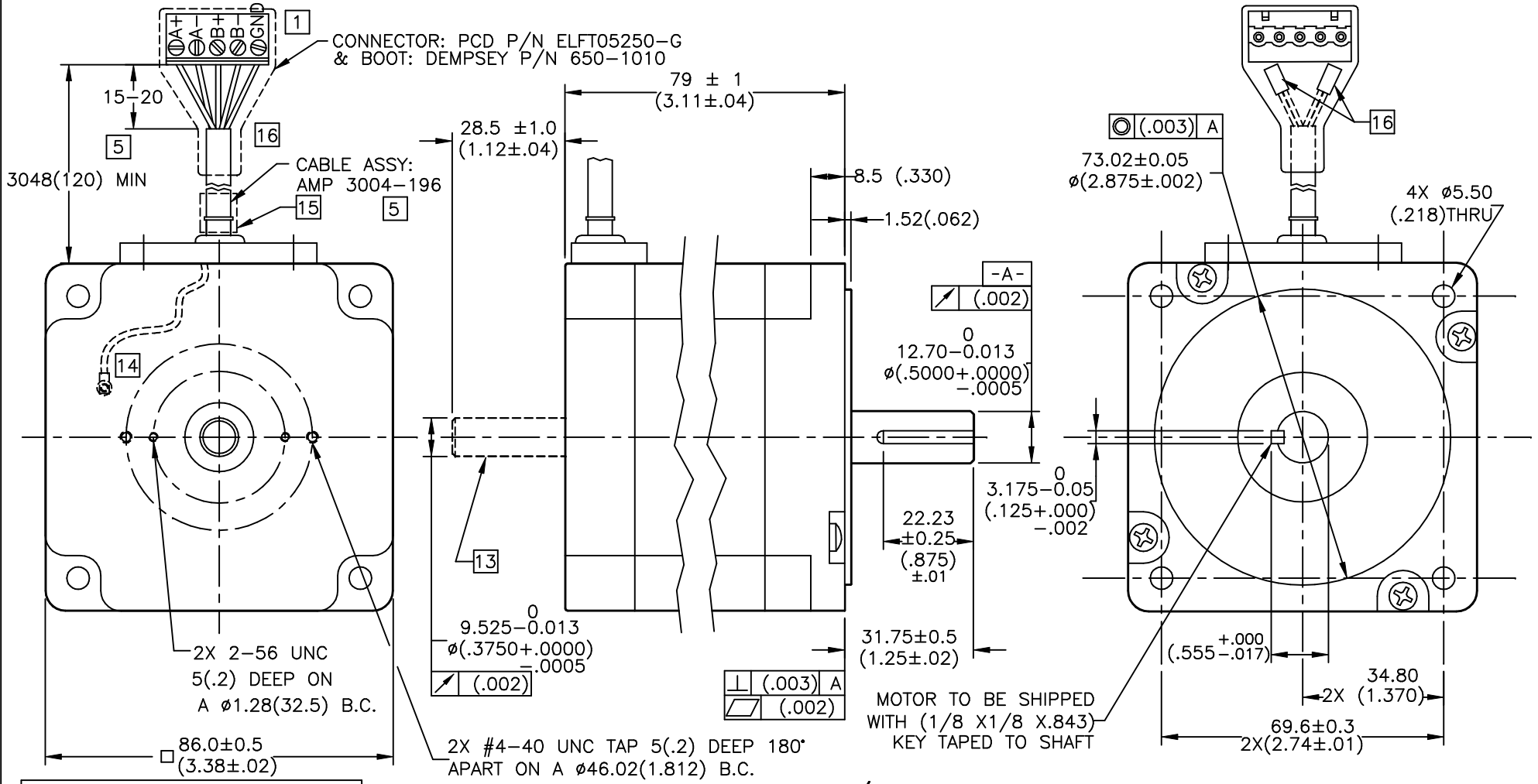
STEP	WHITE/A+	GREEN/A-	RED/B+	BLACK/B-
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-



CONTRACT NO. TS 3684N65		 APPLIED MOTION PRODUCTS, INC.			
APPROVALS	DATE	<h1>STEP MOTOR OUTLINE</h1>			
DRAWN <i>S.ARNOLD</i>	2/25/05				
CHECKED <i>R. HAZELWOOD</i>	2/25/05				
APPROVED <i>R. HAZELWOOD</i>	2/25/05				
APPROVED		B	COMPUTER DATA BASE DRAWING	DWG NO. HT34-488	REV G
SCALE: NTS		SHEET 1 OF 2			

5 4 3 2 1 ← PIN SEQUENCE

SEE SHEET 1 FOR REVISIONS



CONNECTION CHART		
PIN	CONNECTOR	LEAD COLOR
1	GRND	SHIELD
2	B-	BLACK
3	B+	RED
4	A-	GREEN
5	A+	WHITE
YELLOW/ BLUE	SEE NOTE 16	ORANGE/ BROWN

SINGLE/DOUBLE SHAFT VERSION

TOLERANCES		THIRD ANGLE PROJECTION		APPLIED MOTION PRODUCTS, INC.			
DECIMALS: MM (INCH) X.XXX = ±0.01 (.005) X.XX = ±0.10 (.010) X.X = ±0.20 (.020) ANGLES: MACH. = ±.5° CHAM. = ±5°							
COMPUTER DATA BASE DRAWING		APPROVALS	DATE			STEP MOTOR OUTLINE B DWG NO. HT34-488 REV G	
		DRAWN S.ARNOLD					
		CHECKED R. HAZELWOOD	2/25/05				
		APPROVED R. HAZELWOOD	2/25/05	SCALE: FULL	SHEET 2 OF 2		