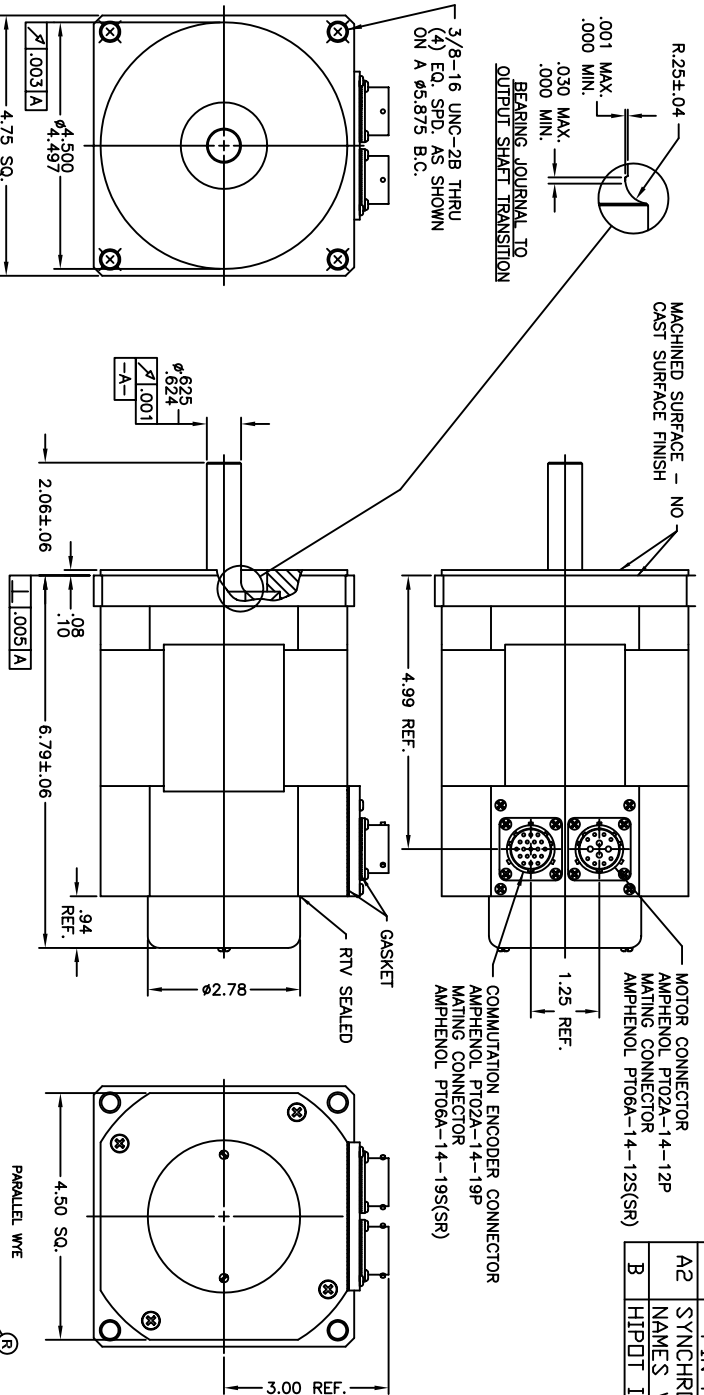
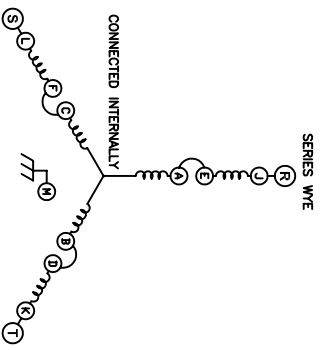
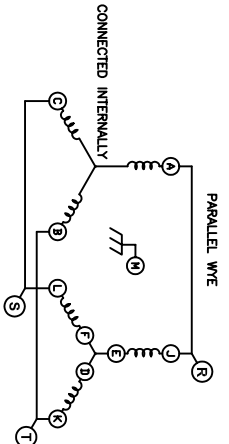


REV	DESCRIPTION/ECD NO.	DATE
A1	CORRECTED WINDING	11/10/04
A2	PIN NAMES	
B	SYNCHRONIZED SIGNAL NAMES WITH CABLE	11/12/04
	HIPOT INCREASED TO 2300V	1/10/05



MOTOR PARAMETERS @25°C			
	TOL.	UNITS	SERIES CONNECTION
MAX. OPERATING SPEED (Sn)	MAX.	R.P.M.	2000
CONTINUOUS TORQUE (Tc)	MAX.	IN-LB	43
PEAK TORQUE (Tp)	MAX.	IN-LB	130
TORQUE SENSITIVITY (Kt)	±10%	IN-LB/AMPS	11.75
BACK EMF CONSTANT (Ke) (L-L D.C.)	±10%	V/K R.P.M.	5.88
D.C. RESISTANCE (R) (L-L)	±10%	OHMS	139
INDUCTANCE (L) (L-L)	±15%	mH	14.3
ROTOR INERTIA (Jg)	NOM.	IN-LB-SEC ²	0.0064
FRICTION TORQUE (Tf)	NOM.	IN-LB	0.8
DAMPING TORQUE (Td)	NOM.	IN-LB/KRPM	0.15
THERMAL RESISTANCE (Rth)	NOM.	°C/WATT	1.15
WINDING TEMPERATURE	MAX.	°C	135
NUMBER OF POLES	-		8
WEIGHT	NOM.	LBS	20

- NOTES:
1. MOTOR FRONT BEARING: 52mm O.D., 20mm I.D., 15mm WIDE. BASIC SERIES NO. 6304
 2. BEARING PRELOAD IS LOCATED AT DRIVE END OF MOTOR.
 3. REAR BEARING IN BONDED INTO END CAP USING LOCITE #680.
 4. MOTOR IS PAINTED WITH BLACK ENAMEL PAINT, EXCEPT FOR THE MOUNTING FACE.
 5. THERMOSTAT: NORMALLY CLOSED, OPENING TEMPERATURE 135°C. LOCATED ON WINDING END TURNS.
 6. ENCODER SHIELD IS INSULATED FROM CASE.
 7. HALL TRANSISTORS IN LINE WITH BACK EMF.
 8. HIOT TEST (100%) 2300 VDC RISE TIME=2sec, DWELL=10sec, 0.5mA MAX LEAKAGE, NO ARCING.
 9. ALL UNITS TO BE 100% TESTED FOR BOTH ELECTRICAL AND MECHANICAL COMPLIANCE INCLUDING STATIC AND DYNAMIC FRICTION SPECIFICATIONS PER LATEST APPROVED TEKNIC MOTOR TEST PROCEDURE.



MOTOR CONNECTOR PINOUT (PT02A-14-12P)	
PIN	FUNCTION
A	R2S
B	T2S
C	S2S
D	T1F
E	R1F
F	S1F
G	N/C
H	N/C
J	T1S
K	T1S
L	S1S
M	CASE GROUND

COMPUTATION ENCODER CONNECTOR PINOUT (PT02A-14-19P)	
PIN	FUNCTION
A	THERMOSTAT
B	THERMOSTAT
C	COMM-1
D	ENC 1
E	ENC 1
F	ENC A
G	ENC A
H	ENCODER GROUND
J	N/C
K	+5 VDC ENCODER
L	N/C
M	COMM-S
N	ENC B
P	ENC B
R	COMM-R
S	N/C
T	N/C
U	N/C
V	N/C

TOLERANCES UNLESS OTHERWISE SPECIFIED:	
ANGULAR ± 1°	LINEAR ± .020

6	5	4	3	2	1
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Teknic, Inc.

DESCRIPTION

BRUSHLESS MOTOR, 848-3900 02-IN

FILENAME	DWGNO.	REV.
M-4650-FT.DWG	M-4650-FT	B