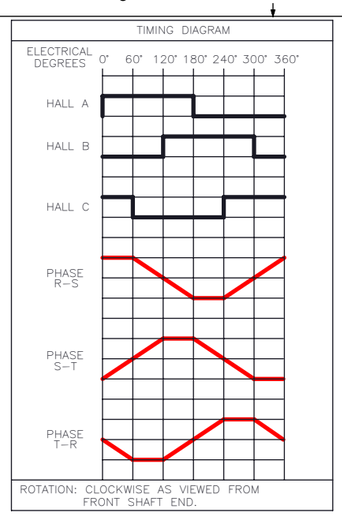
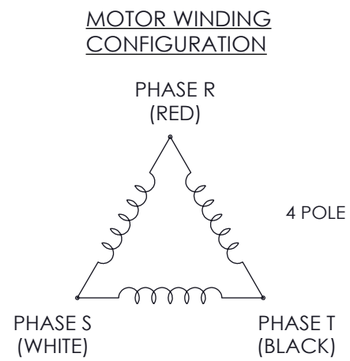
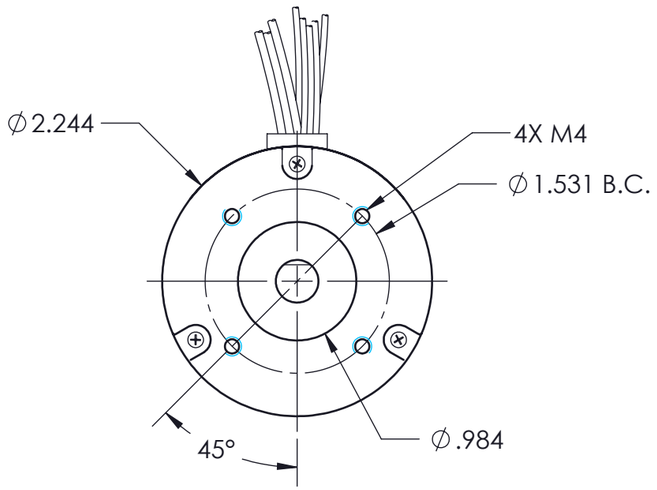
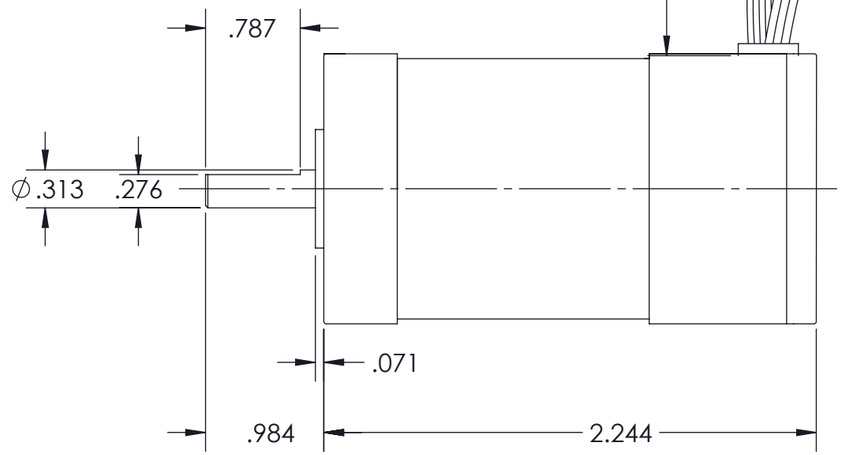
MOTOR PARAMETERS @25°C			
	TOL.	UNITS	VALUE
MAX. OPERATING SPEED (Snl)	MAX.	R.P.M.	5000
CONTINUOUS TORQUE (Tc)	MAX.	Oz-In	55.22
PEAK TORQUE (Tp)	MAX.	Oz-In	165.7
CONTINUOUS CURRENT (Ic)	MAX.	AMPS	6.5
PEAK CURRENT (Ip)	MAX.	AMPS	19
TORQUE SENSITIVITY (Kt)	±10%	Oz-In/AMP	8.57
BACK EMF CONSTANT (Ke) (L-L, D.C.)	±10%	V/K R.P.M.	6.35
D.C. RESISTANCE (Rt) (L-L)	±10%	OHMS	0.53
INDUCTANCE (L) (L-L)	±15%	mH	1.1
ROTOR INERTIA (Ja)	NOM.	Kg-cm^2	0.173
WEIGHT	NOM.	Kg	1.2

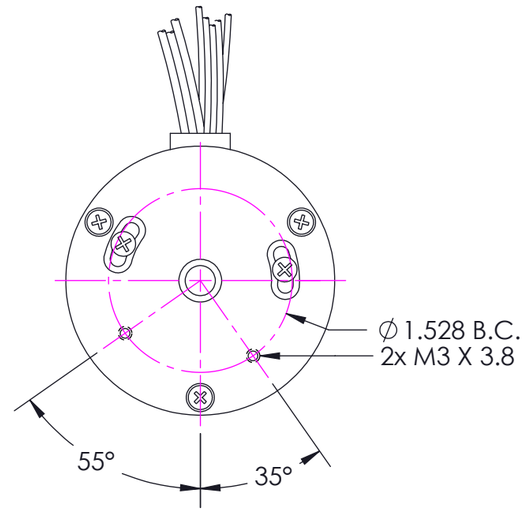


COLOR CODE		
	COLOR	FUNCTION
MOTOR	RED	PHASE R
	WHITE	PHASE S
	BLACK	PHASE T
SENSOR	YELLOW	HALL A
	ORANGE	HALL B
	BROWN	HALL C
	RED	+5-24 VDC
	BLACK	GROUND









NOTES:
1. AXIAL AND RADIAL CLEARANCE IS TESTED ACCORDIND TO TI-152;
2. HI-POT: 1200VAC/1S, 2mA;
3. UNSPECIFIED TOLERANCE: ±0.25.
4. BEARING: R6-2RS, ABEC 3 OR BETTER

REVISIONS			
DESCRIPTION	REV.	DATE	APPV'D
PRELIMINARY	P1	2/15/2017	

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWINS IS CONFIDENTIAL AND THE SOLE PROPERTY OF TRU TECH SPECIALTY MOTORS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TRU TECH SPECIALTY MOTORS IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS:
Inches [MILLIMETERS]
TOLERANCES:
LINEAR X.XX: ±.01 [.25]
LINEAR X.XXX: ±.005 [.13]
ANGULAR: ± 1/2°

			DATE	SIGNATURE
MATERIAL				
FINISH		DRAWN	2/15/2017	JAL
PROJECT		CHK'D		
STATUS		APPV'D		

TruTech Specialty Motors

SIZE B

TITLE: BRUSHLESS MOTOR

PART NUMBER: 53-0165

P1 REV

SCALE:1:1 SHEET 1 OF 1

Customer Approval: