

MOTOR DATA @ 110 VAC (TRAP)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	.15
KILOWATTS	KW	.11
MAX. OPERATING SPEED	N. MAX RPM	6000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	IN-LBS[Nm]	2.3[.26]
* CONTINUOUS STALL TORQUE	IN-LBS[Nm]	2.6[.29]
CONTINUOUS LINE CURRENT	AMPS	3.0
PEAK TORQUE	IN-LBS[Nm]	7.8[0.9]
PEAK CURRENT	AMPS	9.7
MAX. THEORETICAL ACCEL.	RAD/SEC ²	118,182
TORQUE SENSITIVITY	Kt IN-LBS/AMP[Nm/AMP]	1.03[.12]
BACK EMF (LINE TO LINE)	Vrms/Krpm	9.2
D.C. RESISTANCE (P-P)	OHMS	6.9
INDUCTANCE (P-P)	MILLIHENRIES	7.7
ROTOR INERTIA	Jm [IN-LBS-SEC ²] [Kg-M ²]	.000066[.0000075]
STATIC FRICTION	Tf [IN-LBS] [Nm]	.35[.040]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 10" X 1/4" ALUMINUM HEATSINK. THERMOSTAT IN STATOR WINDINGS WILL OPEN IF WINDING TEMPERATURE EXCEEDS 155°C. THIS ALLOWS FOR AN APPROXIMATE +10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS.

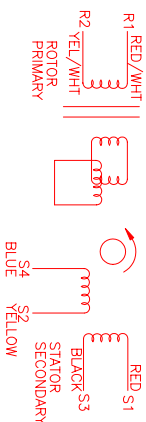
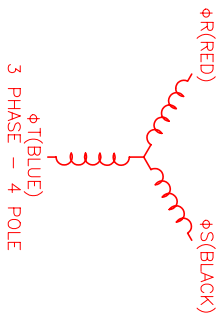
MECHANICAL NOTES:

- AXIAL LOAD: 15 LBS MAX
- RADIAL LOAD: 20 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: 2.3 LBS. [1.0 kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- MILLIMETERS (INCHES)

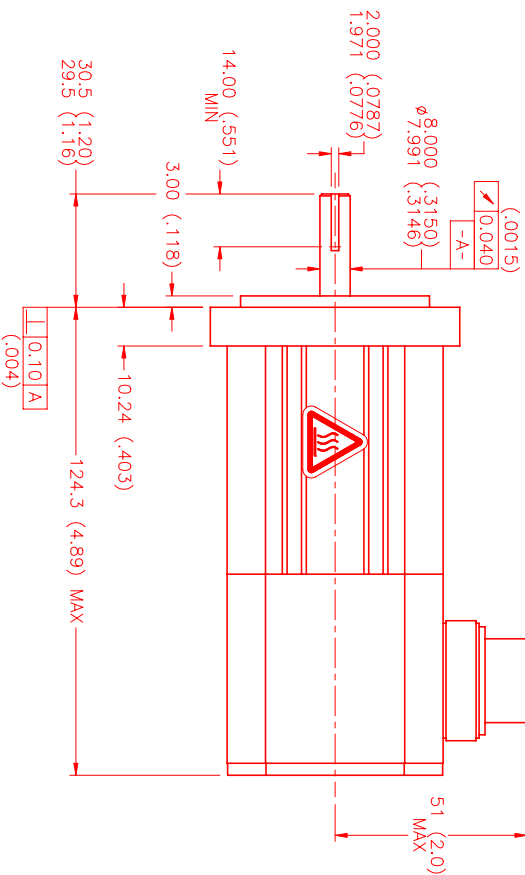
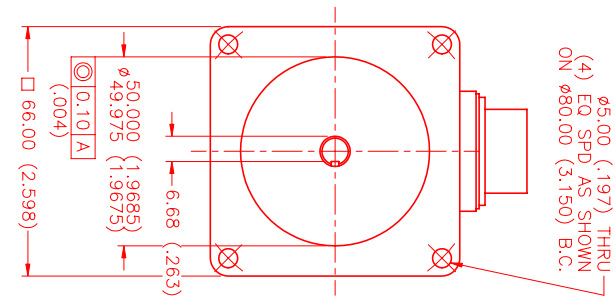
CONNECTION CHART

MOTOR/THERM/RESOLVER CONNECTOR:
PT02E-14-18P(027)
(270-00024)

MTR/THERM/RES	WIRE	WIRE LEADS
PIN	WIRE FUNCTION	WIRE COLOR
A	ΦR	RED
B	ΦS	BLACK
C	ΦT	BLUE
D	PE GND	GRN/YEL
U	THERM	BLACK
N	THERM	BLACK
H	SIN	YELLOW
G	COS GND	BLACK
S	COS	RED
F	SIN GND	BLUE
R	REF GND	YEL/WHI
E	REF	RED/WHI
J	RES SHLD	GRN/YEL
K	-	-
L	-	-
M	-	-
P	-	-
T	-	-



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER



NO.	PART NUMBER	DESCRIPTION	QTY.
1	PT02E-14-18P(027)	MOTOR/THERM/RESOLVER CONNECTOR	1

UNLESS SPECIFIED	DRINK WATER
1/2" DIA. HOLES	1/2" DIA. HOLES
1/4" DIA. HOLES	1/4" DIA. HOLES
1/8" DIA. HOLES	1/8" DIA. HOLES
1/16" DIA. HOLES	1/16" DIA. HOLES
1/32" DIA. HOLES	1/32" DIA. HOLES
1/64" DIA. HOLES	1/64" DIA. HOLES
1/128" DIA. HOLES	1/128" DIA. HOLES
1/256" DIA. HOLES	1/256" DIA. HOLES
1/512" DIA. HOLES	1/512" DIA. HOLES
1/1024" DIA. HOLES	1/1024" DIA. HOLES
1/2048" DIA. HOLES	1/2048" DIA. HOLES
1/4096" DIA. HOLES	1/4096" DIA. HOLES
1/8192" DIA. HOLES	1/8192" DIA. HOLES
1/16384" DIA. HOLES	1/16384" DIA. HOLES
1/32768" DIA. HOLES	1/32768" DIA. HOLES
1/65536" DIA. HOLES	1/65536" DIA. HOLES
1/131072" DIA. HOLES	1/131072" DIA. HOLES
1/262144" DIA. HOLES	1/262144" DIA. HOLES
1/524288" DIA. HOLES	1/524288" DIA. HOLES
1/1048576" DIA. HOLES	1/1048576" DIA. HOLES
1/2097152" DIA. HOLES	1/2097152" DIA. HOLES
1/4194304" DIA. HOLES	1/4194304" DIA. HOLES
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