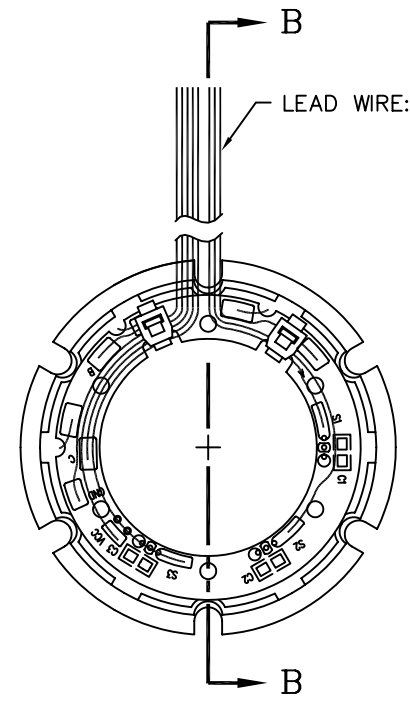
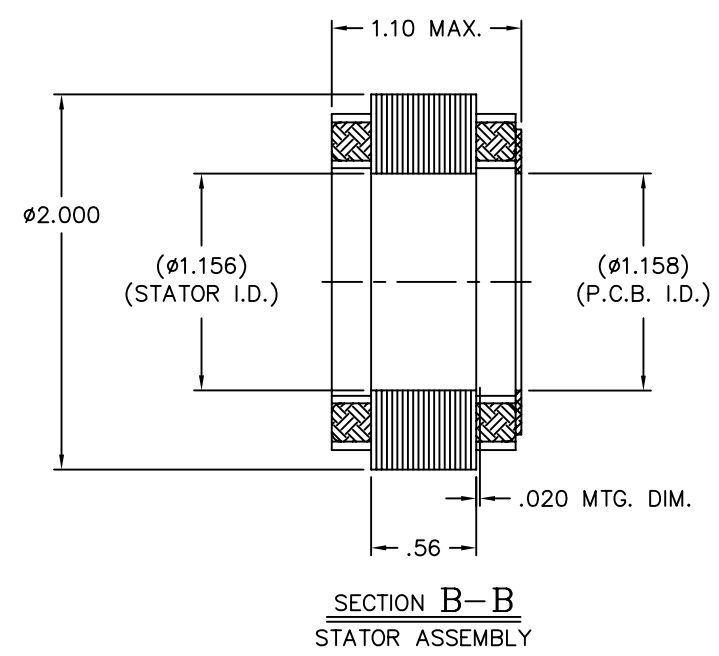
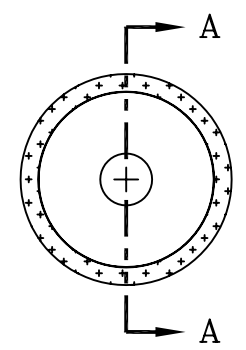
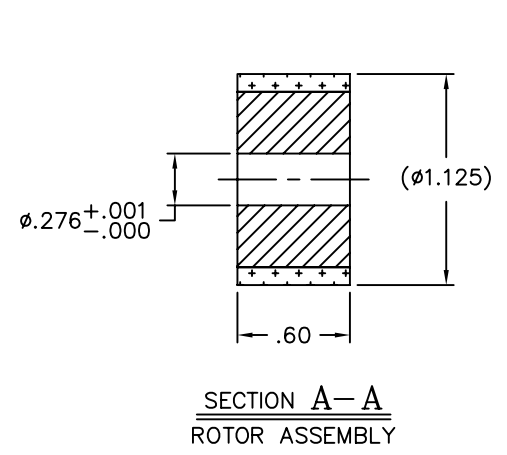


WINDING CONSTANTS	UNITS	TOL	SYM	WDG A	WDG B	WDG C	WDG D	WDG E
DC RESISTANCE	OHMS	±12.5%	R	1.9	4.6	11.5	18.1	45.6
VOLTAGE @ T _p	VOLTS	NOMINAL	V _p	18.2	28.7	46.2	58.1	93.4
CURRENT @ T _p	AMPERES	NOMINAL	I _p	9.6	6.2	4.0	3.2	2.0
TORQUE SENSITIVITY	OZ IN/AMP	±10%	K _T	4.5	6.9	10.7	13.4	21.0
BACK EMF CONSTANT	VOLTS/(RAD/SEC)	±10%	K _B	0.032	0.049	0.076	0.095	0.148
INDUCTANCE	MILLIHENRY	±30%	L	0.95	2.3	5.8	9.1	22.8

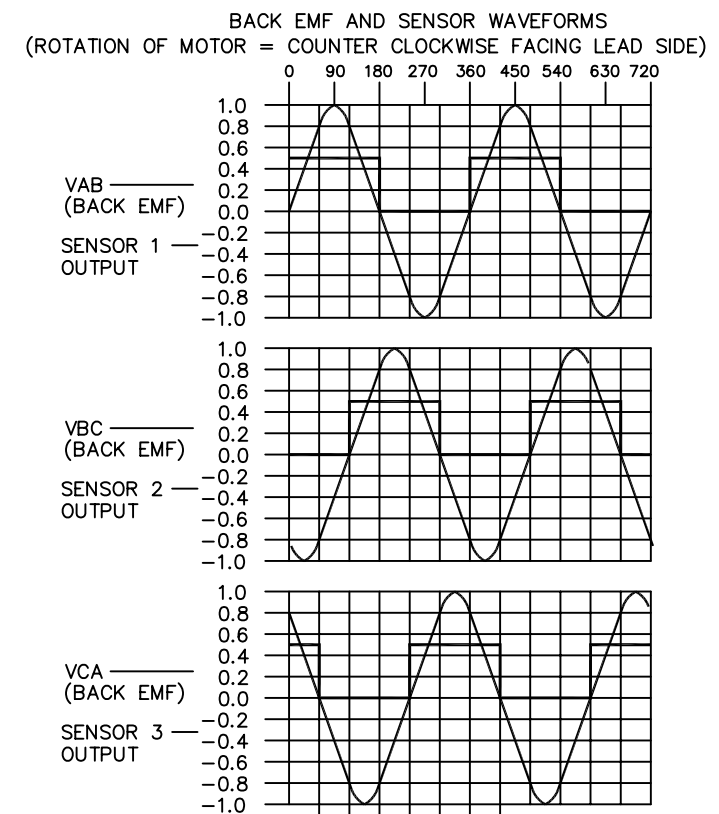
LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
C	97-0668	UPDATE BORE DIA & TOL	RLE	HP	05/21/97
D	070564	ADD WAVEFORM	SLM	BD	09/18/07

MOTOR PARAMETERS	UNITS	SYM	NOM. VALUE
PEAK TORQUE *	OZ IN	T _p	43.0
CONTINUOUS STALL TORQUE **	OZ IN	T _{CS}	9.5
MOTOR CONSTANT	OZ IN/√WATT	K _M	3.3
ELECTRICAL TIME CONSTANT	MILLISECOND	τ _E	0.50
MECHANICAL TIME CONSTANT	MILLISECOND	τ _M	12.3
POWER I ² R @ T _p	WATTS	P _p	173.5
DAMPING FACTOR (ZERO IMPEDANCE)	OZ IN/(RAD/SEC)	F ₀	0.076
BREAKAWAY TORQUE	OZ IN	T _F	1.2
ROTOR INERTIA	OZ IN SEC ²	J _M	9.1x10 ⁻⁴
MAX ALLOWABLE SPEED	RPM	S _M	12,000
SPEED @ OZ-IN & VDC	RPM	S _L	
THEO ACC @ T _p	RAD/SEC ²	α _T	4.4x10 ⁴
THERMAL RESISTANCE ***	°C/WATT	θ _{TH}	9.5
MAX ALLOWABLE WINDING TEMP	°C	TEMP	155
NUMBER OF PHASES/WINDING TYPE			3/Y
NUMBER OF POLES			8
WEIGHT	OZ	W _T	4.5

* 10 SEC @ 25°C AMBIENT TEMP
 ** 25°C AMBIENT, 155° WINDING TEMP
 *** WITH ALUMINUM HOUSING HEATSUNK TO 8 X 8 X 1/8 INCH ALUMINUM PLATE



LEAD WIRE: PVC UL #1061 80°C
 3x #22 AWG
 5x #28 AWG
 12.0 MIN. LONG



MOTOR LEADS	COLOR	1	2	3	4	5	6
A	RED	+	+	-	-		
B	BLK	-	-	+	+		
C	GRN					+	+
1	BRN	1	1	0	0	0	1
2	BLU	0	1	1	1	0	0
3	ORG	0	0	0	1	1	1
Vcc+	YEL						
GND	GRY						

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THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
 -ALL DIMENSIONS ARE IN INCHES
 -BREAK SHARP EDGES .015 MAX.
 -SURFACE ROUGHNESS √63
 -DIMENSIONS APPLY AFTER FINISH
 -MAX FILLET R .010

TOLERANCES:
 DECIMALS ANGULAR
 .X ± .03 ±0° 30'
 .XX ± .01
 .XXX ± .005

DO NOT SCALE DRAWING

BEI KIMCO MAGNETICS DIVISION
 VISTA, CA 92081

DRAWN R. ELLIOTT	DATE 09/21/92	TITLE BLDC MOTOR PART SET	
MECH CHECK McGHEE	DATE 09/18/07	SIZE B	FSCM NO. 55789
APPD HA PHAM	DATE 09/23/92	DWG NO. DIP20-09-HPZ(LTR)	REV D
FILE NO. M:\TOPLEVEL\DIP\...	SCALE 1/1	SHEET 1 OF 1	