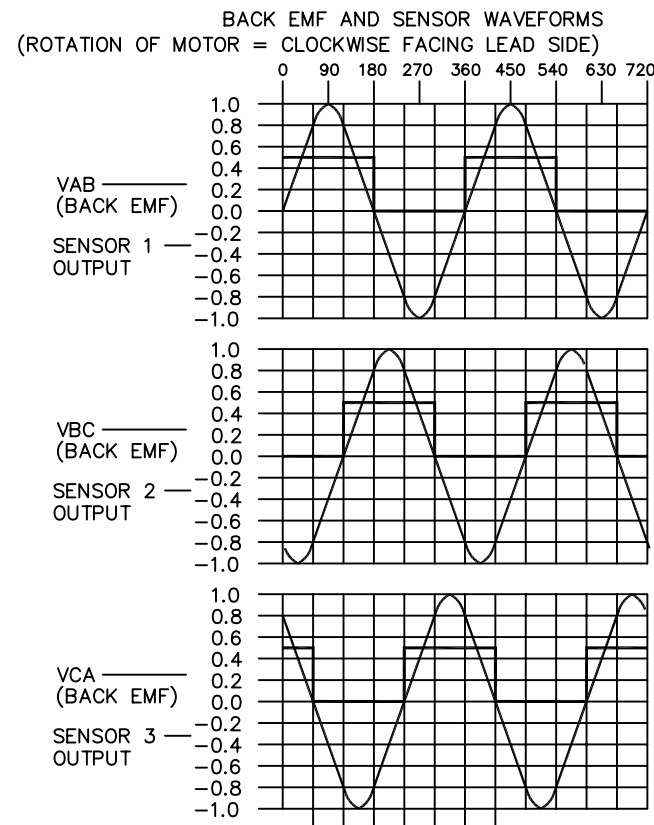


WINDING CONSTANTS	UNITS	TOL	SYM	WDG A
DC RESISTANCE	OHMS	±12.5%	R	0.36
VOLTAGE @ T _P	VOLTS	NOMINAL	V _P	9.00
CURRENT @ T _P	AMPERES	NOMINAL	I _P	25.0
TORQUE SENSITIVITY	OZ IN/AMP	±10%	K _T	14.0
BACK EMF CONSTANT	VOLTS/(RAD/SEC)	±10%	K _B	0.099
INDUCTANCE	MILLIHENRY	±30%	L	1.33

MOTOR PARAMETERS	UNITS	SYM	NOM. VALUE
PEAK TORQUE *	OZ IN	T _P	350.0
CONTINUOUS STALL TORQUE **	OZ IN	T _{CS}	135.0
MOTOR CONSTANT	OZ IN/√WATT	K _M	23.3
ELECTRICAL TIME CONSTANT	MILLISECOND	τ _E	3.7
MECHANICAL TIME CONSTANT	MILLISECOND	τ _M	5.4
POWER I ² R @ T _P	WATTS	P _P	212.3
DAMPING FACTOR (ZERO IMPEDANCE)	OZ IN/(RAD/SEC)	F _O	4.07
BREAKAWAY TORQUE	OZ IN	T _F	7.0
ROTOR INERTIA	OZ IN SEC ²	J _M	2.2x10 ⁻²
MAX ALLOWABLE SPEED	RPM	S _M	18,000
SPEED @ 100 OZ-IN & 80 VDC	RPM	S _L	6,200
THEO ACC @ T _P	RAD/SEC ²	α _T	1.6x10 ⁴
THERMAL RESISTANCE ***	°C/WATT	θ _{TH}	2.2
MAX ALLOWABLE WINDING TEMP	°C	TEMP	125
NUMBER OF PHASES/WINDING TYPE			3/Y
NUMBER OF POLES			6
WEIGHT	OZ	W _T	66

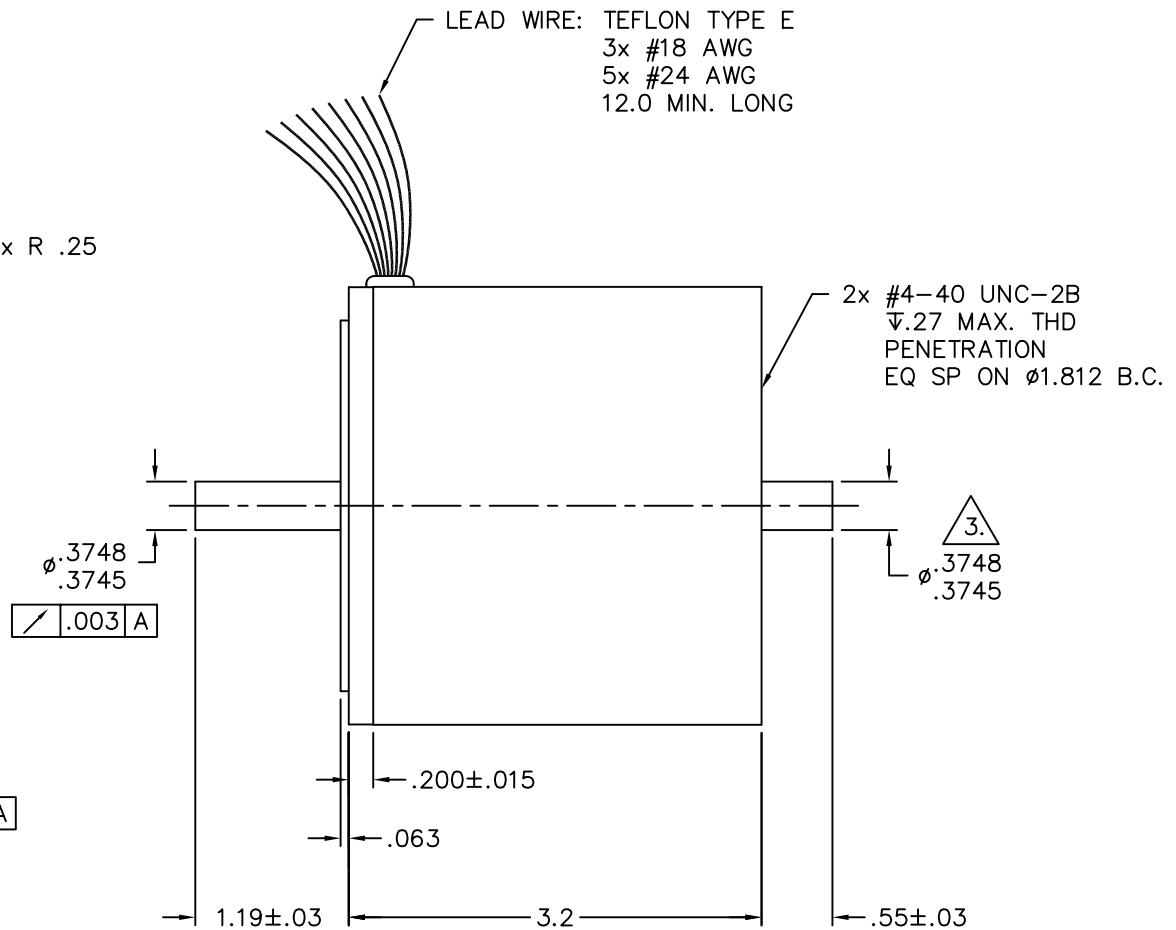
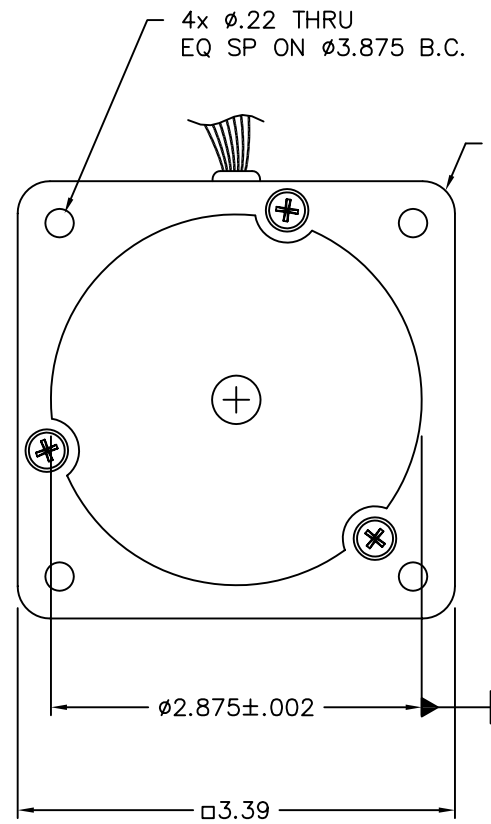
* 10 SEC @ 25°C AMBIENT TEMP
 ** 25°C AMBIENT, 125° WINDING TEMP
 *** WITH 12 X 12 X .25 THICK AL HEAT SINK



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						

NOTES: UNLESS OTHERWISE SPECIFIED
 1. INTERPRET DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.
 2. INTERPRET DRAWING IAW ASME Y14.100.
 3. SHAFT RUNOUT TO BE .003 MAX.

LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
B	99-0724	UPDATE WDG. INFO	RLE	HP	09/13/99
D	070564	ADD WAVEFORM	SLM	BD	09/18/07
E	070595	CORRECT ROTATION DIRECTION	SLM	BD	09/28/07



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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. ELLOITT	DATE 11/06/98	TITLE BRUSHLESS DC MOTOR
MECH CHECK McGHEE	09/18/07	
APPD HA PHAM	11/06/98	
FILE NO. M:\TOPLEVEL\DIM\...	SIZE C	FSCM NO. 55789
	DWG NO. DIN34-32-CDYA	REV E
	SCALE 1/1	SHEET 1 OF 1