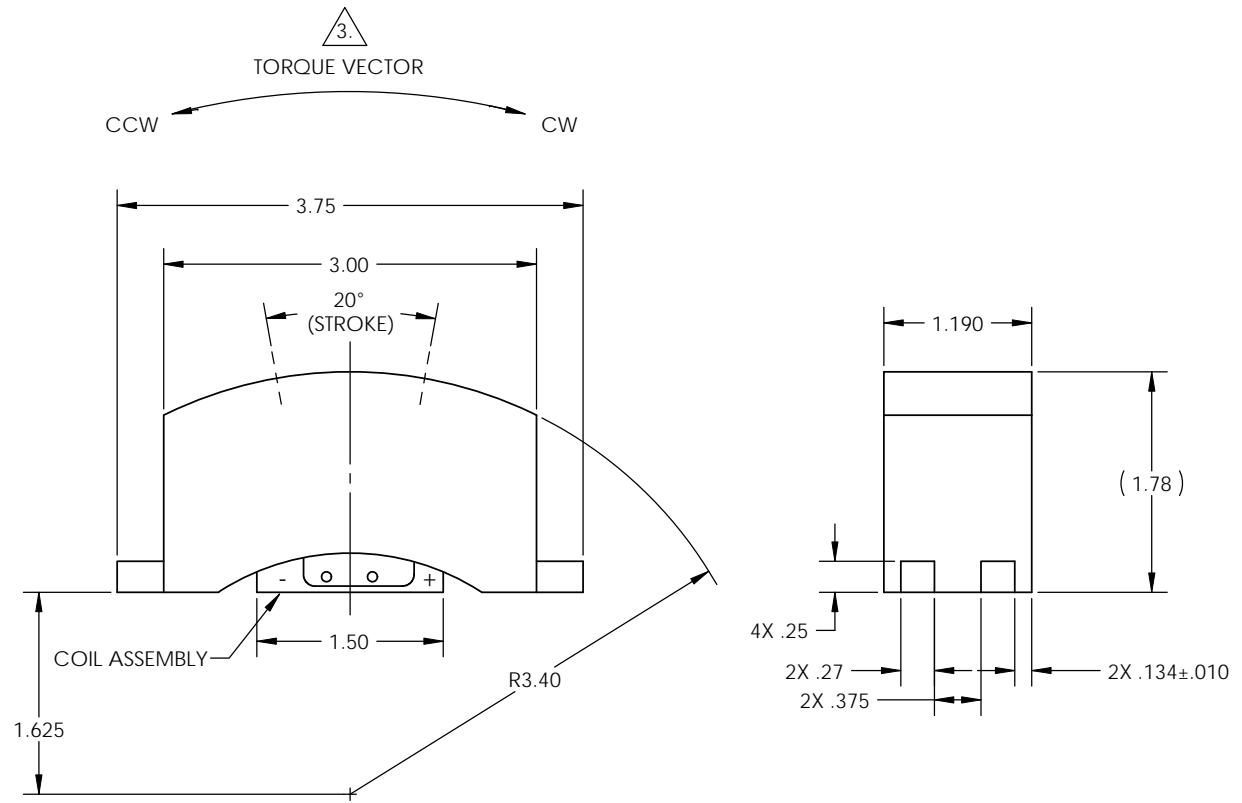


Winding Constants *	Units	Tol	Symbol	Wdg A	Wdg B
DC Resistance	Ohms	± 12.5%	R	5	.15
Voltage @ T _P	Volts	Nominal	V _P	15.2	2.6
Current @ T _P	Amps	Nominal	I _P	3.04	17.4
Toeque Sensitivity	Oz-in/Amp	± 10%	K _T	56	9.77
	Nm/Amp	± 10%		.395	.069
Back EMF Constant	V/Rad/Sec	± 10%	K _B	.395	.069
Inductance ****	milli-Henry	± 15%	L	4.2	.13

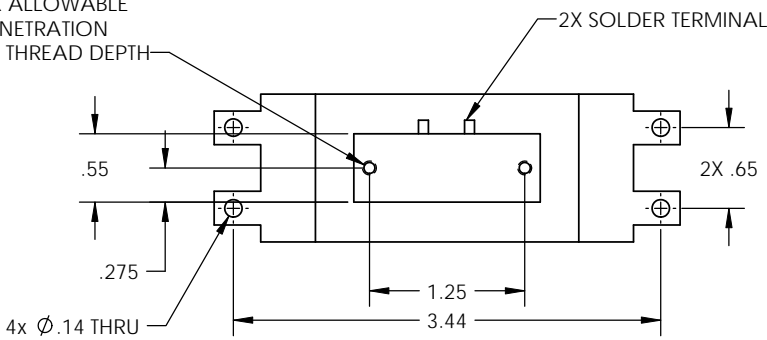
LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
S	100308	UPDATE PERFORMANCE TABLE	RG	MG	10/22/10

Rotary Actuator Parameters *	Units	Symbol	Value
Peak Torque **	Oz-in	T _P	170
	Nm		1.2
Continuos Stall Torque ***	Oz-in	F _{CS}	103
	Nm		.73
Actuator Constant	Oz-in/√Watt	K _A	25
	Nm/√Watt		.177
Electrical Time Constant	milli-sec	τ _E	.84
Mechanical Time Constant	milli-sec	τ _M	4.52
Theoretical Angular Acceleration	rad/sec ²	α _T	8510
Max Theoretical Frequency @ Full Stroke and Sinusoidal / Triangular Motion	Hz	f _{max}	35.1/39
Power I ² R @ F _p	Watts	P _P	46.2
Angular Stroke	+/- Degrees		10
Moving Coil Inertia	Oz-in-sec ²	J _{CA}	.02
	Kgm ²		1.41x10 ⁻⁴
Thermal Resistance of Coil	°C/Watt	θ _{TH}	5.1
Maximum Allowable Coil Winding Temp	°C	Temp	155
Total Weight	Oz	Wt	18
	G		510

* AT MID-STROKE POSITION AND @ 25°C AMBIENT TEMPERATURE.
 ** 10 SECONDS @ 25°C AMBIENT & 155°C COIL TEMPERATURE.
 *** @25°C AMBIENT & 155°C COIL TEMPERATURE.
 **** MEASURED AT 1000 Hz.



2x 4-40 UNC -2B
 THREADED INSERT
 √.31 MAX ALLOWABLE
 SCREW PENETRATION
 √.15 FREE THREAD DEPTH



3. A POSITIVE (+) VOLTAGE APPLIED TO THE POSITIVE (+) TERMINAL WILL PRODUCE A TORQUE ON THE COIL ASSEMBLY IN THE CLOCKWISE (CW) DIRECTION, AS VIEWED FROM THE TERMINAL SIDE.

- 2. INTERPRET DRAWING IAW Y14.100.
- 1. INTERPRET DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED

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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
 -DIAMETERS SHALL NOT EXCEED A RUNOUT OF .005 FIM

TOLERANCES:
 DECIMALS ANGULAR
 .X ±.03 ±0°30'
 .XX ±.01
 .XXX ±.005
 DO NOT SCALE DRAWING



BEI KIMCO MAGNETICS DIVISION
 VISTA, CA 92081

DRAWN	DATE	TITLE
ELLOITT	09/09/88	ROTARY ACTUATOR
CHECK GUERRERO	12/13/04	
APPD HA PHAM	09/12/88	SIZE C
FILE NO. L\TOP LEVEL\RA\		FSCM NO. 55789
		DWG NO. RA68-12-001(LTR)
		REV S
		SCALE: NONE
		SHEET: 1 OF 1