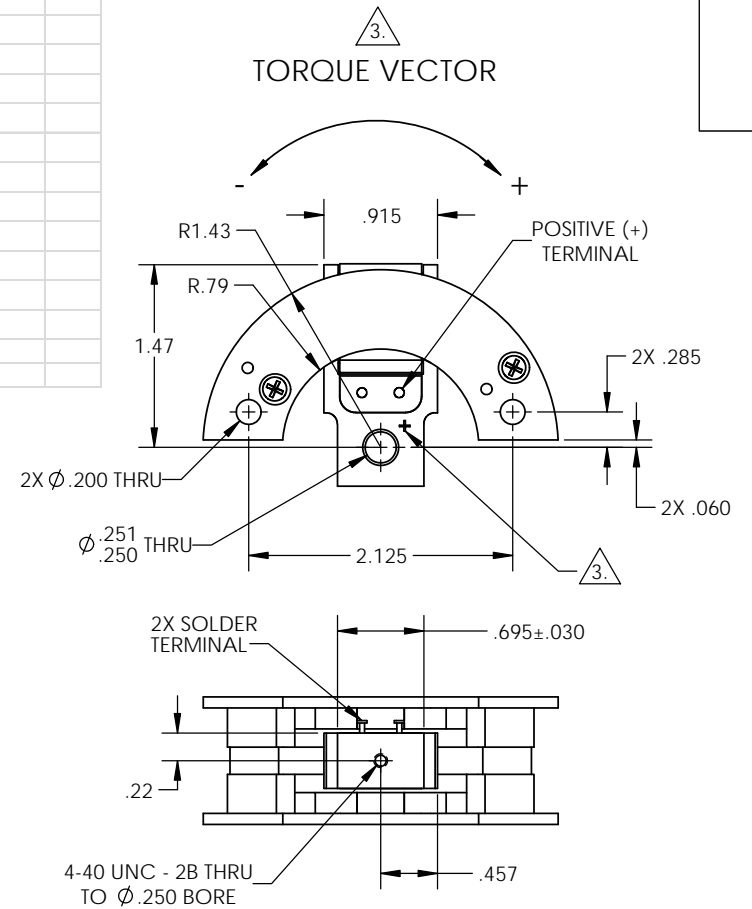
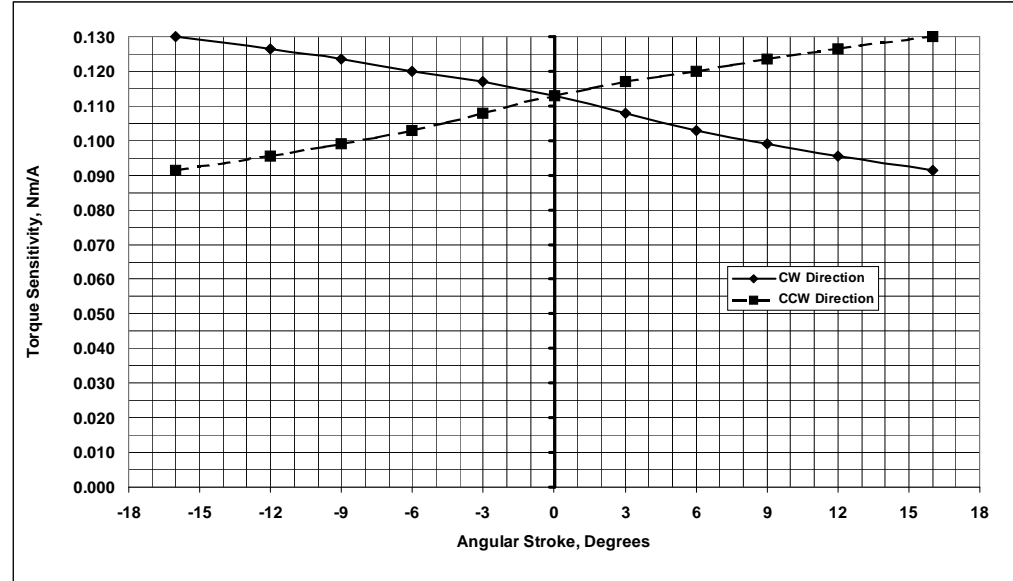


Winding Constants *	Units	Tol	Symbol	Wdg	A
DC Resistance	Ohms	± 12.5%	R	13	
Voltage @ T _p	Volts	Nominal	V _p	26	
Current @ T _p	Amps	Nominal	I _p	2	
Toeque Sensitivity	Nm/Amp	± 10%	K _T	0.113	
	Oz-in/Amp	± 10%		16	
Back EMF Constant	V/Rad/Sec	± 10%	K _B	0.113	
Inductance ****	milli-Henry	± 15%	L	10	

Rotary Actuator Parameters *	Units	Symbol	Value
Peak Torque **	Nm	T _P	0.226
	Oz-in		32
Continuos Stall Torque ***	Nm	F _{CS}	.0727
	Oz-in		10.3
Actuator Constant	Nm/ √Watt	K _A	0.031
	Oz-in/ √Watt		4.44
Electrical Time Constant	milli-sec	τ _E	0.77
Mechanical Time Constant	milli-sec	τ _M	12.8
Theoretical Angular Acceleration	rad/sec ²	α _T	17,937
Max Theoretical Frequency @ Full Stroke and Sinusoidal / Triangular Motion	Hz	f _{max}	40.3/44.8
Power I ² R @ F _p	Watts	P _p	52
Angular Stroke	+/- Degrees		16
Coil Clearance	mm		0.63
	in		0.025
Moving Coil Inertia	Kgm ²	J _{CA}	1.26 X 10 ⁻⁵
	Oz-in-sec ²		0.0018
Thermal Resistance of Coil	°C/Watt	θ _{TH}	16.2
Maximum Allowable Coil Winding Temp	°C	Temp	155
Total Weight	G		157
	Oz	W _T	5.53

* @ 25° C AMBIENT & MID-STROKE POSITIONS (PER COIL)
 ** 10 SEC @ 25° C AMBIENT & 155° C COIL TEMPERATURE
 *** 25° C AMBIENT & 155° C COIL TEMPERATURE
 **** MEASURED AT 1000 Hz

LTR	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
J	110161	UPDATE DWG & PARAMETERS	RG	MG	08/02/11



3. A POSITIVE (+) VOLTAGE APPLIED TO THE + TERMINAL WILL PRODUCE A TORQUE ON THE COIL ASSEMBLY IN THE CW DIRECTION AS SHOWN.

2. INTERPRET DRAWING IAW Y14.100.

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

NOTES: UNLESS OTHERWISE SPECIFIED

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE IF EXPORTED FROM THE UNITED STATES SHALL BE IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED.

Proprietary rights of BEI Kimco are involved in the subject matter of this material and all manufacturing, reproduction, use, and sales pertaining to such subject matter are expressly reserved. This confidential and proprietary document is submitted for a specified purpose, and the recipient by accepting this material agrees that this material will not be used, copied, or reproduced in whole or in part nor its contents revealed in any manner or to any person except to meet the purpose for which it was delivered.

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

RoHS

DRAWN JDM	DATE 04/10/90	TITLE ROTARY ACTUATOR	
CHECK THOMPSON	DATE 10/01/06	SIZE C	REV J
APPD A MORCOS	DATE 04/13/90	FSCM NO. 55789	DWG NO. RA29-11-002A
FILE NO. L:\TOP\LEVEL\RA\	SCALE: NONE	SHEET: 1 OF 1	