

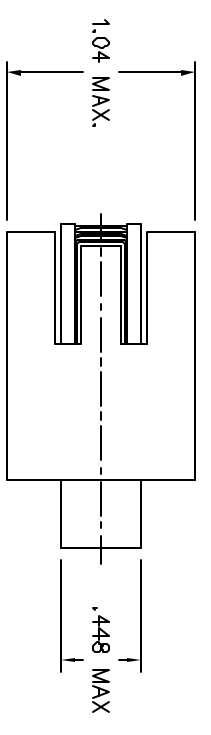
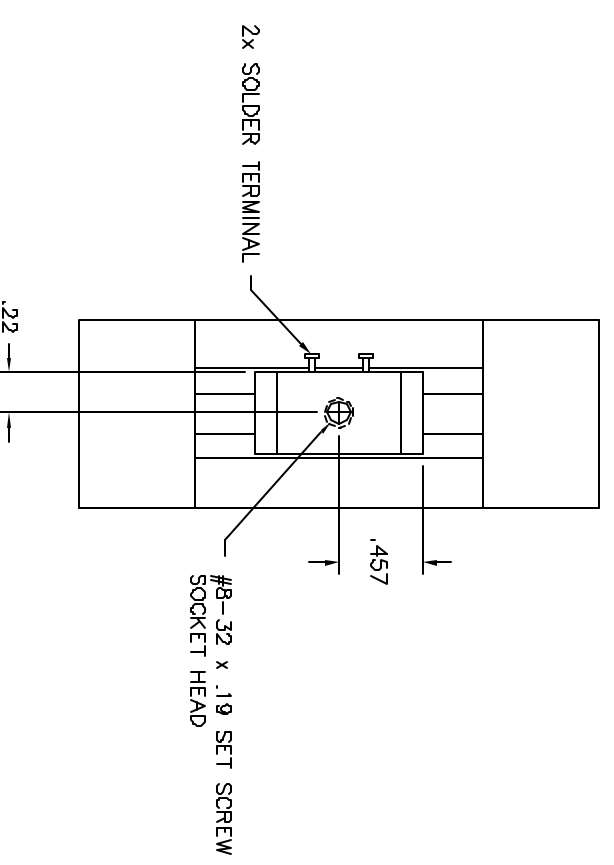
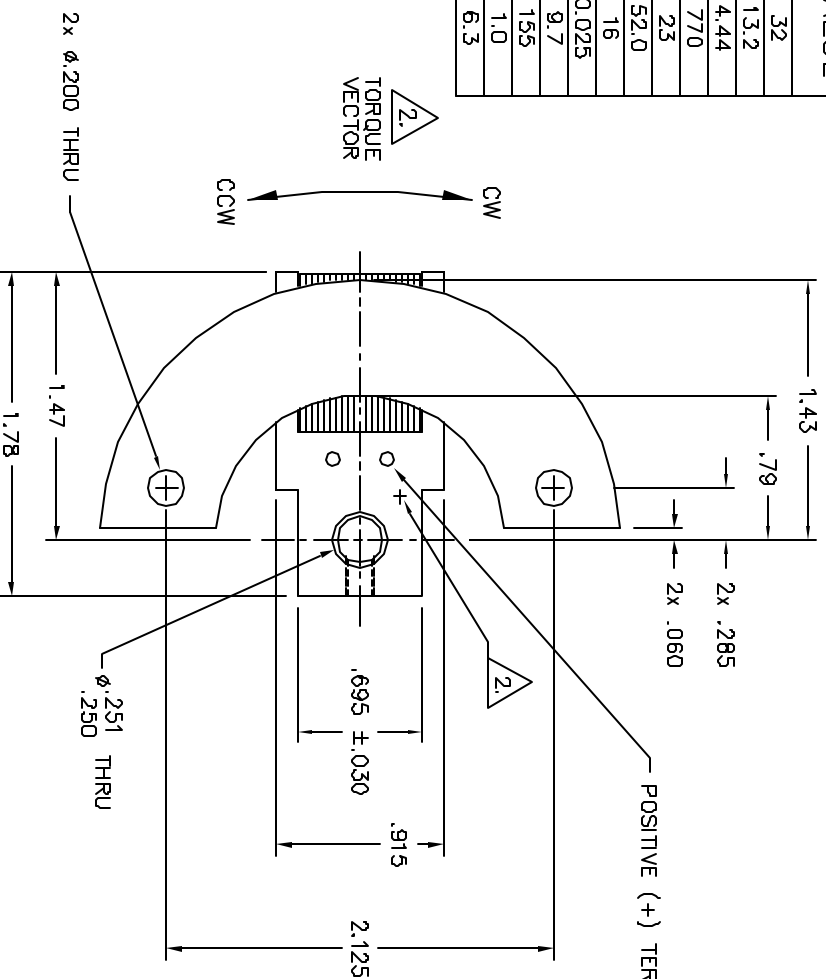
LTR	ECO NO.	DESCRIPTION	DRN	AP'D	DATE
G	045103	MATCH REV. TO AVANTE	JJC	MG	12/16/04
H	060820	ROHS CONVERSION	JWT	SH	10/30/06

4 RA29-11-002A H 1

WINDING CONSTANTS	UNITS	SYM	WDG A	TOL
DC RESISTANCE	OHMS	R	13.0	±12.5%
VOLTAGE @ TORQUE	32 OZ-IN VOLTS	V _e	26.0	NOMINAL
CURRENT @ TORQUE	32 OZ-IN AMPERES	I _e	2.00	NOMINAL
TORQUE SENSITIVITY @ MID-STROKE	0Z-IN/AMP	K _t	16	±10%
BACK EMF CONSTANT @ MID-STROKE	VOLTS/(RAD/SEC)	K _b	0.11	±10%
INDUCTANCE	MILLI-HENRY	L	10.0	±30%

ROTARY ACTUATOR PARAMETERS	UNITS	SYM	VALUE
PEAK TORQUE *	0Z-IN	T _p	32
CONTINUOUS STALL TORQUE **	0Z-IN	T _{cs}	13.2
ACTUATOR CONSTANT	0Z-IN/V/WATT	T _{cs}	4.44
ELECTRICAL TIME CONSTANT	MICRO-SEC	T _e	770
MECHANICAL TIME CONSTANT	MILLI-SEC	T _m	23
POWER IPR @ TORQUE	32 OZ-IN WATTS	P	52.0
STROKE (ANGULAR)	± DEGREES		16
CLEARANCE ON EACH SIDE OF COIL	IN		0.025
THERMAL RESISTANCE OF COIL	°C/WATT	θ _{th}	9.7
MAX ALLOWABLE TEMP OF COIL	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WT _c	1.0
TOTAL WEIGHT	OZ	WT _t	6.3

* 10 SEC @ 25°C AMBIENT, 155°C COIL TEMP
 ** 25°C AMBIENT, 155°C COIL TEMP



BEI KIMCO MAGNETICS DIVISION
 VISTA, CA 92081

DRAWN		DATE	TITLE	
JDM		04/10/90	ROTARY ACTUATOR	
MECH CHECK		DATE	TITLE	
THOMPSON		10/0/06	ROTARY ACTUATOR	

APPROVED	FILE NO.	SCALE	SIZE	FSCM NO.	DWG NO.	REV
ACM	TOP\RA\RA29-11-002A	1/1	B	55789	RA29-11-002A	H

THIRD ANGLE PROJECTION
 UNLESS OTHERWISE SPECIFIED,
 ALL DIMENSIONS ARE IN INCHES
 BREAK SHARP EDGES 20% MAX.
 SURFACE FINISH 320/500
 DIMENSIONS APPLY AFTER FINISH
 MAX FILLET R .200

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

1. INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED

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