

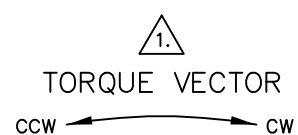
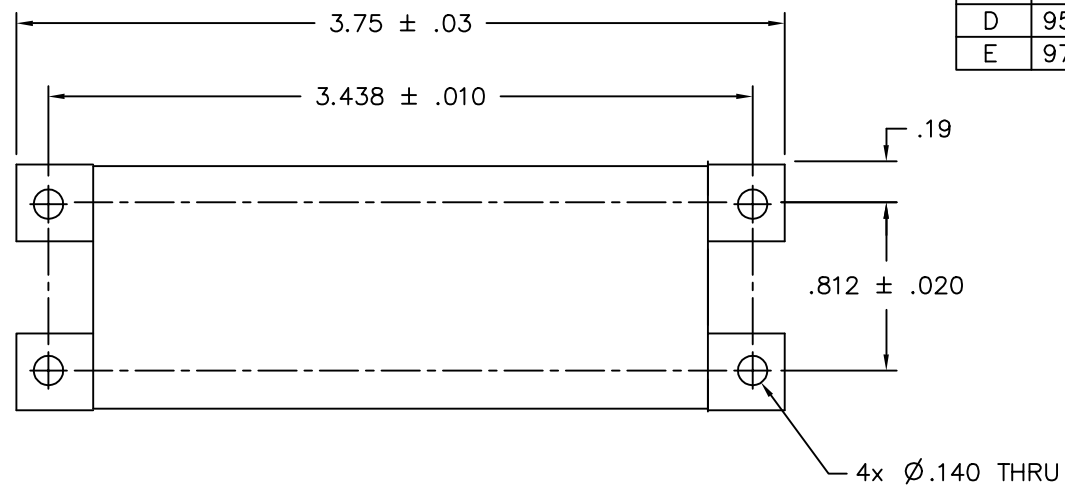
WINDING CONSTANTS	UNITS	SYM	WDG Z	TOL
DC RESISTANCE	OHMS	R	1.1	±12.5%
VOLTAGE @ TORQUE	60 OZ-IN VOLTS	Vc	6.1	NOMINAL
CURRENT @ TORQUE	60 OZ-IN AMPERES	Ic	5.45	NOMINAL
TORQUE SENSITIVITY	OZ-IN/AMP	Kt	11.0	±10%
BACK EMF CONSTANT	VOLTS/RAD/SEC	Kb	0.078	±10%
INDUCTANCE	MICRO-HENRY	L	275	±30%

ROTARY ACTUATOR PARAMETERS	UNITS	SYM	VALUE
PEAK TORQUE *	OZ-IN	Tp	60
CONTINUOUS STALL TORQUE **	OZ-IN	Tcs	38
ACTUATOR CONSTANT	OZ-IN/√WATT	Ka	10.5
ELECTRICAL TIME CONSTANT	MICRO-SEC	Te	250
MECHANICAL TIME CONSTANT	MILLI-SEC	Tm	12.5
POWER I <sup>2</sup> R @ TORQUE	60 OZ-IN WATTS	P	32.7
STROKE (ANGULAR)	± DEGREES		20
CLEARANCE ON EACH SIDE OF COIL	IN		0.02
THERMAL RESISTANCE OF COIL	°C/WATT	θth	6.6
MAX ALLOWABLE TEMP OF COIL	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	OZ	WTc	0.60
TOTAL WEIGHT	OZ	WTt	14.7

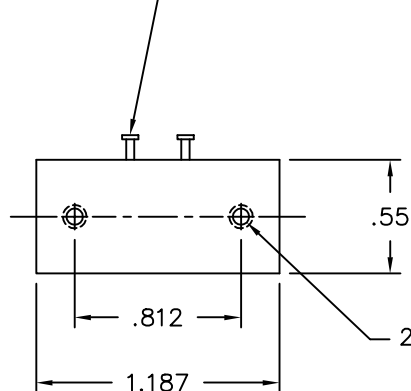
\* 10 SEC @ 25°C AMBIENT, 155°C COIL TEMP

\*\* 25°C AMBIENT, 155°C COIL TEMP

REV	DCN NO.	DESCRIPTION	DRN	APP'D	DATE
C	92-00137	REDRAW ON CAD	WPB	ACM	4/2/92
D	95-0088	REV WIDTH DIMENSION	SLM	ACM	1/26/95
E	97-1691	ADD TORQUE VECTOR	NPF	ACM	12/22/97

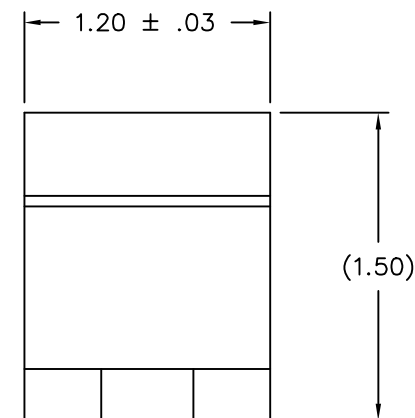
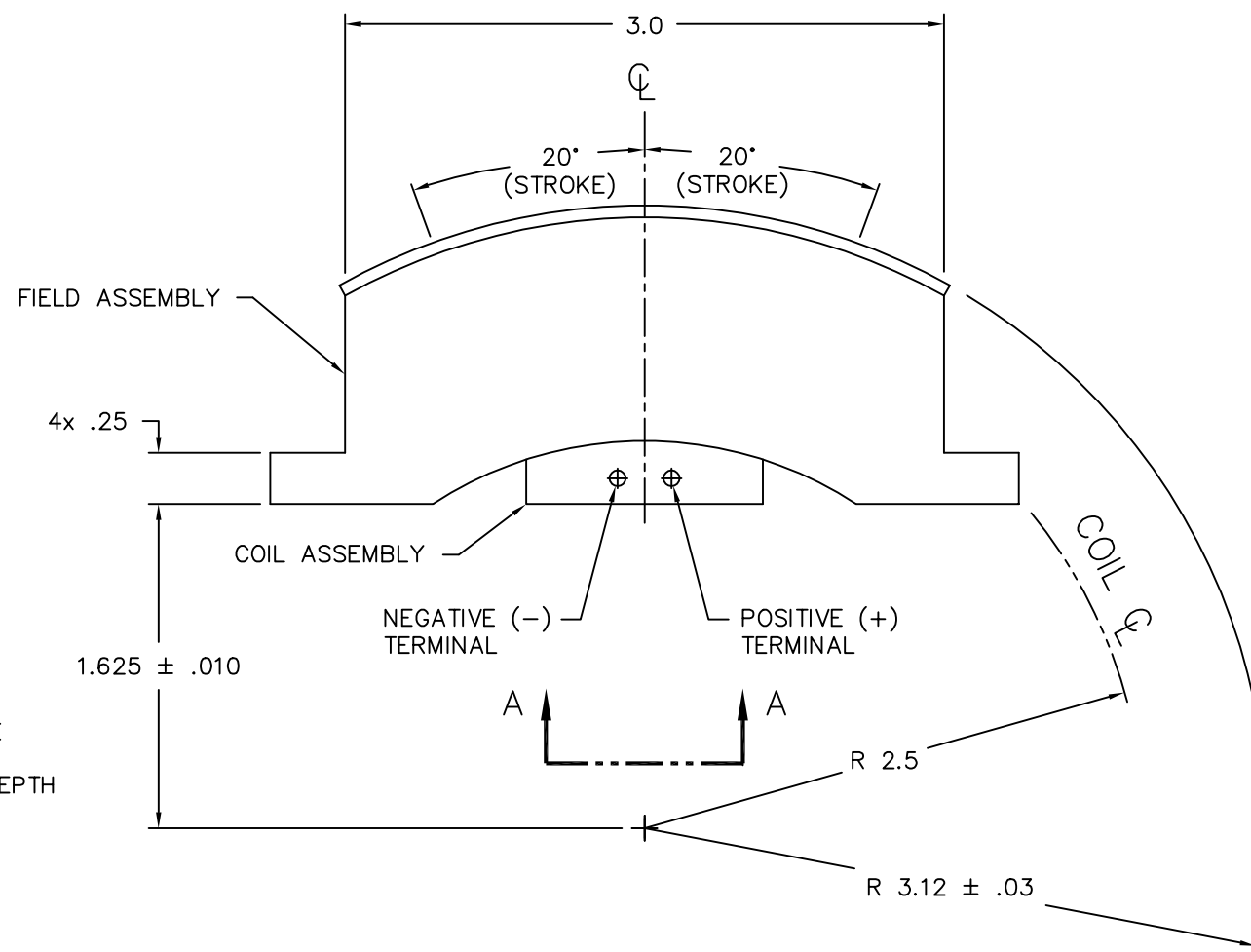


2x SOLDER TERMINAL



VIEW A-A

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



For Further Information Contact ....

Heason Technologies Group Ltd

Tel: +44(0)1403 755800

Fax: +44(0)1403 755810

Email: sales@heason.com

Freephone 0800 374903 www.heason.com

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1. A POSITIVE (+) VOLTAGE APPLIED TO THE (+) TERMINAL WILL PRODUCE A TORQUE ON THE COIL ASSEMBLY IN THE CW DIRECTION WHEN VIEWED FROM THE TERMINAL SIDE.

NOTES: UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING  
UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE  
ANGULAR = ± 30' .X = ± .03  
.XX = ± .01 .XXX = ± .005

SIZE	FSCM NO.	BEI	KIMCO MAGNETICS DIVISION
B	55789		SAN MARCOS, CA 92069
TITLE:		DWG NO:	
ROTARY ACTUATOR		RA60-10-002A	
SCALE: 1/1		SHT 1 OF 1	
APP'D: A. MORCOS		4/2/92	