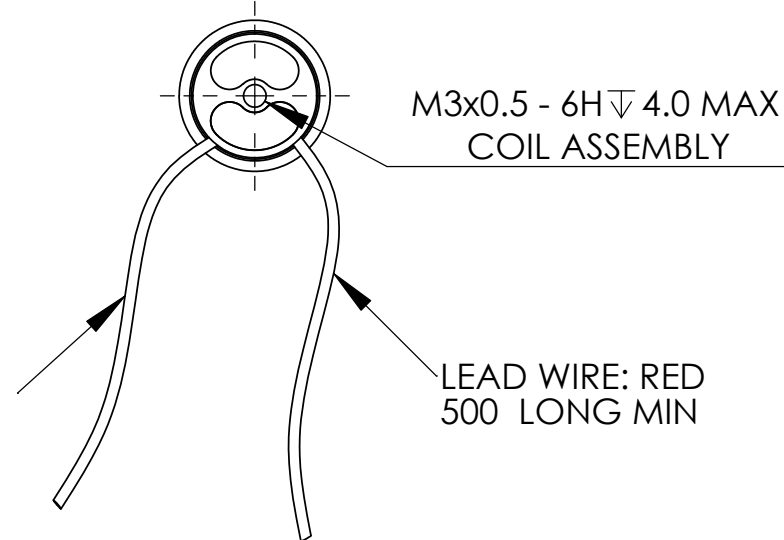
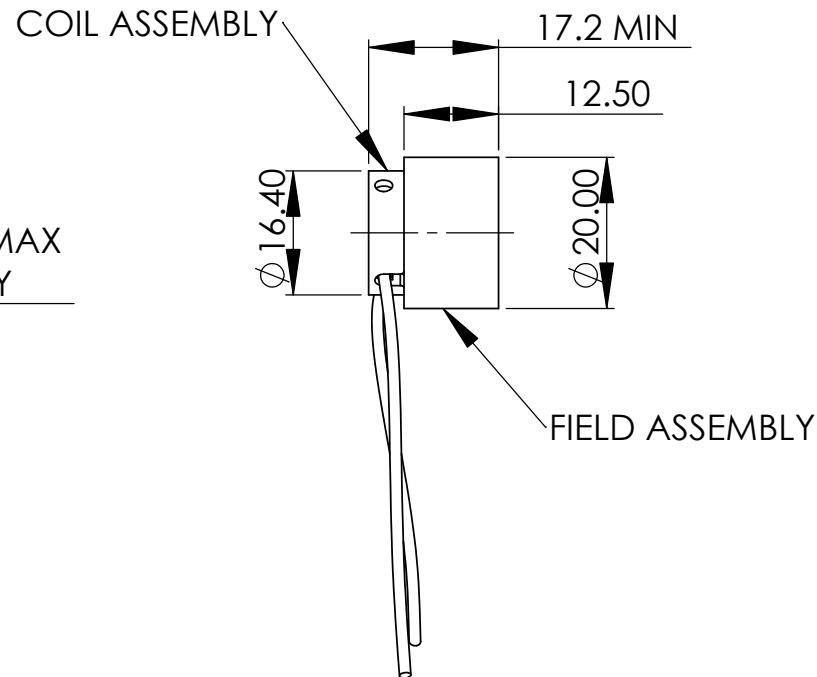
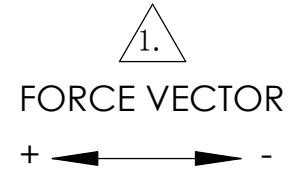


WINDING CONSTANT	TOL	SYM	VALUE	UNITS
DC RESISTANCE	± 10%	R	1.2	OHMS
VOLTAGE @ Fp	NOMINAL	Vp	6.6	VOLTS
CURRENT @ Fp	NOMINAL	Ip	5.5	AMPS
FORCE SENSITIVITY	± 7.5%	Kf	1.12	N / A
BACK EMF CONSTANT	NOMINAL	Kb	1.12	V/M/Sec
INDUCTANCE*****	± 30%	L	0.18	mH

ACTUATOR PARAMETER	SYM	VALUE	UNITS
PEAK FORCE *	Fp	6.2	N
CONTINUOUS FORCE **	Fc	1.9	N
CONTINUOUS FORCE WITH HEAT SINK	Fc	5.4	N
ACTUATOR CONSTANT	Ka	1.02	N/√w
ELECT TIME CONSTANT	Te	0.15	milli-sec
POWER I ² R@Fp	Pp	36.3	W
TOTAL STROKE	S	3.9	mm
CLEARANCE ON SIDE OF COIL	CL	0.4	mm
THERMAL RESISTANCE ***	θth	36.4	C / W
THERMAL RESISTANCE WITH HEAT SINK****	θth	4.44	C / W
MAX WINDING TEMP	Tmax	150	C
WEIGHT OF COIL ASSEMBLY	WTc	7.9	g
WEIGHT OF FIELD ASSEMBLY	WTf	20	g
WEIGHT OF ACTUATOR	WTa	27.9	g

* 10 sec @ 25C ambient, 150C coil temp.
 ** 25C ambient, 150C coil temp.
 *** In free air.
 **** Measured with 250×250×10mm heat sink.
 ***** Measured with BK PRECISION 875B.

REV	ECO NO.	DESCRIPTION	DRN	APP'D	DATE
X1	---	INITIAL RELEASE	WYG	FCL	06/11/16



2.INSULATION RESISANCE:100 MEGOHMS MINIMUM AT 500 VDC.
 1. A POSITIVE(+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN POSITIVE (+) DIRECTION.
 NOTES:UNLESS OTHERWISE SPECIFIED

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: MACH ±0° 30' ONE PLACE DECIMAL ±0.25 TWO PLACE DECIMAL ±0.1		WYG	06-11-16
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5M-1982		FCL	06-11-16
		Q.A.	
		COMMENTS:	

usas motion Suzhou, China

TITLE:
LINEAR ACTUATOR

SIZE B	DWG. NO. VLR0006-0039-00A	REV X1
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SCALE: 1: 1 SHEET 1 OF 1

DO NOT SCALE DRAWING