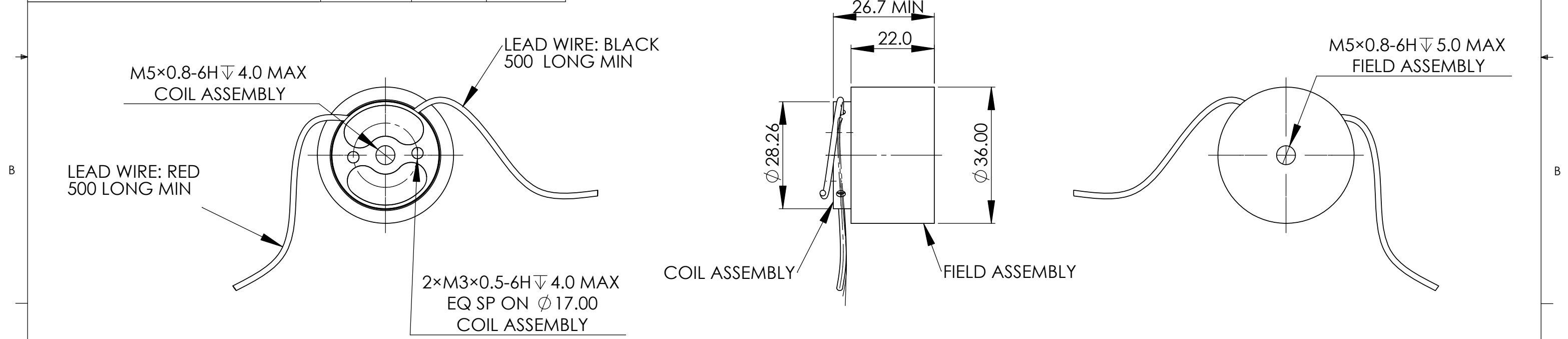
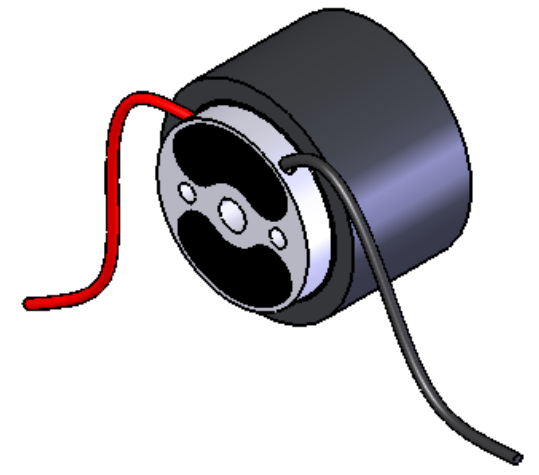


WINDING CONSTANT	TOL	SYM	VALUE	UNITS
DC RESISTANCE	± 10%	R	4.33	OHMS
VOLTAGE @ Fp	NOMINAL	Vp	24.3	VOLTS
CURRENT @ Fp	NOMINAL	Ip	5.62	AMPS
FORCE SENSITIVITY	± 7.5%	Kf	5.87	N / A
BACK EMF CONSTANT	NOMINAL	Kb	5.87	V/M/Sec
INDUCTANCE*****	± 30%	L	1.42	mH
ACTUATOR PARAMETER		SYM	VALUE	UNITS
PEAK FORCE *		Fp	33	N
CONTINUOUS FORCE **		Fc	8.0	N
CONTINUOUS FORCE WITH HEAT SINK		Fc	15.2	N
ACTUATOR CONSTANT		Ka	2.82	N/√w
ELECT TIME CONSTANT		Te	0.33	milli-sec
POWER I ² R@Fp		Pp	137	W
TOTAL STROKE		S	9.9	mm
CLEARANCE ON SIDE OF COIL		CL	0.5	mm
THERMAL RESISTANCE ***		θth	15.5	C / W
THERMAL RESISTANCE WITH HEAT SINK****		θth	4.3	C / W
MAX WINDING TEMP		Tmax	150	C
WEIGHT OF COIL ASSEMBLY		WTc	23.5	g
WEIGHT OF FIELD ASSEMBLY		WTf	137.3	g
WEIGHT OF ACTUATOR		WTa	160.8	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	Q.A.	DATE
X1	---	INITIAL RELEASE	WYG	FCL		06/08/24
X2	100042	UPDATE DATA SHEET	WYG	FCL		06/09/29
X3	100060	UPDATE DATA SHEET	BWZ	WYG	LBQ	07/04/26



2.INSULATION RESISANCE:100 MEGOHMS MINIMUM AT 500 VDC.

▲ A POSITIVE(+)VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN POSITIVE (+) DIRECTION.

NOTES:UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Suzhou, China
DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: MACH±0° 30' ONE PLACE DECIMAL ±0.25 TWO PLACE DECIMAL ±0.1		DRAWN	BWZ 07-04-26	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF USAS MOTION - SUZHOU, CHINA. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF USAS MOTION - SUZHOU, CHINA IS PROHIBITED.		CHECKED		TITLE:
		ENG APPR.	WYG 07-04-26	LINEAR ACTUATOR
		MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5M-1982.		Q.A.	LBQ 07-04-26	SIZE
		COMMENTS:		DWG. NO.
DO NOT SCALE DRAWING				B VLR0033-0099-00A
				REV
				X3
		SCALE: 1: 1		SHEET 1 OF 1