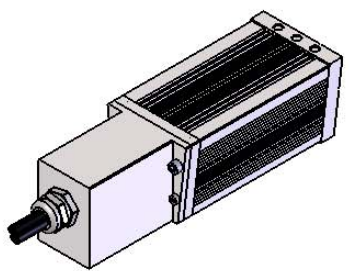
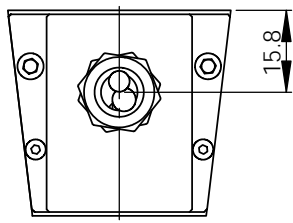
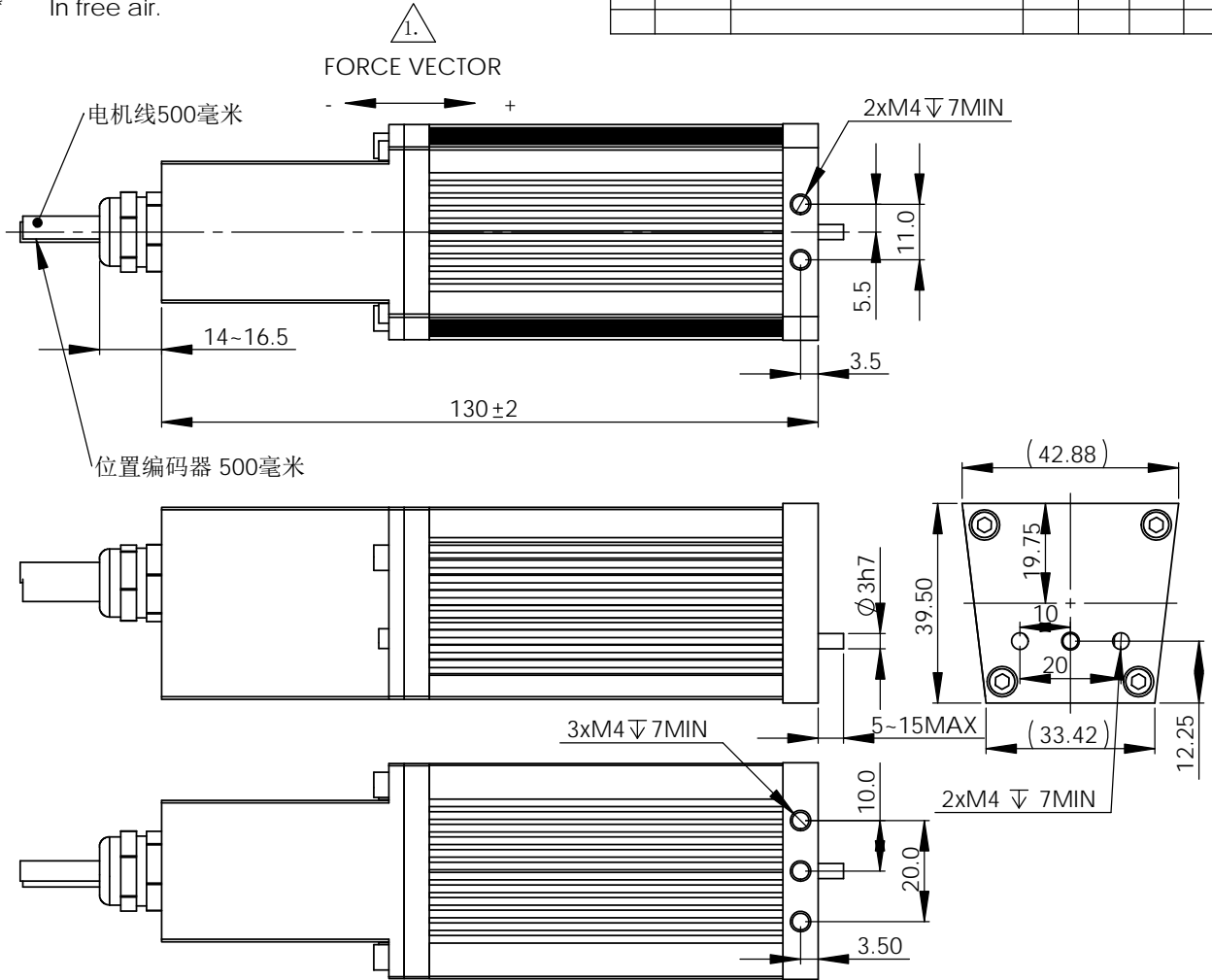


WINDING CONSTANT	TOL	SYM	VALUE	UNITS
DC RESISTANCE	+10%	R	3.3	OHMS
VOLTAGE @ Fp	NOMINAL	Vp	11.8	VOLTS
CURRENT @ Fp	NOMINAL	Ip	3.6	AMPS
FORCE SENSITIVITY	+10%	Kf	8.2	N / A
BACK EMF CONSTANT	NOMINAL	Kb	8.2	V/M/Sec
INDUCTANCE	+30%	L	1.75	mH
ACTUATOR PARAMETER		SYM	VALUE	UNITS
PEAK FORCE *		Fp	29.3	N
CONTINUOUS FORCE **		Fc	13.6	N
ACTUATOR CONSTANT		Ka	4.5	N/W
ELECT TIME CONSTANT		Te	0.53	milli-sec
POWER I2R@Fp		Pp	42.1	W
TOTAL STROKE		S	10	mm
CLEARANCE ON SIDE OF COIL		CL	0.2	mm
THERMAL RESISTANCE ***		qth	6.0	C / W
MAX WINDING TEMP		Tmax	100	C
WEIGHT OF COIL ASSEMBLY		Wtc	373	g
WEIGHT OF FIELD ASSEMBLY		Wtf	79	g
WEIGHT OF ACTUATOR		Wta	452	g

* 2 sec @ 25C ambient, 100C coil temp.
 ** 25C ambient, 100C coil temp.
 *** In free air.

REV	ECO NO.	DESCRIPTION	DRN	APP'D	Q.A	DATE
X1	---	INITIAL RELEASE	LHM	SGM		7/28/2019



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Tongmao Electronics
DIMENSIONS ARE IN MM		DRAWN	LHM 6-26-2019	
TOLERANCES:		CHECKED		TITLE: VOICE COIL ACTUATOR
ANGULAR: MACH ±0° 30'		ENG APPR.	SGM 6-26-2018	
ONE PLACE DECIMAL ±0.25		MFG APPR.		
TWO PLACE DECIMAL ±0.1		Q.A.		
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:		SIZE DWG. NO. REV A4 TMEH0030-010-000 X1
ANSI Y14.5M-1982.				SCALE: 1: 1 SHEET 1 OF 1
DO NOT SCALE DRAWING				