

音圈直线电机(Voice Coil Motor) 具有高频响应、高精度的特点，适合用于短行程的闭环伺服应用。它响应速度快（毫秒级），重量小，可以达到很高的加速度，可以做高速振荡往复运动（可达几十赫兹）。控制简单可靠，无需换向装置，免维护，长寿命，可以长期连续工作

VCM系列

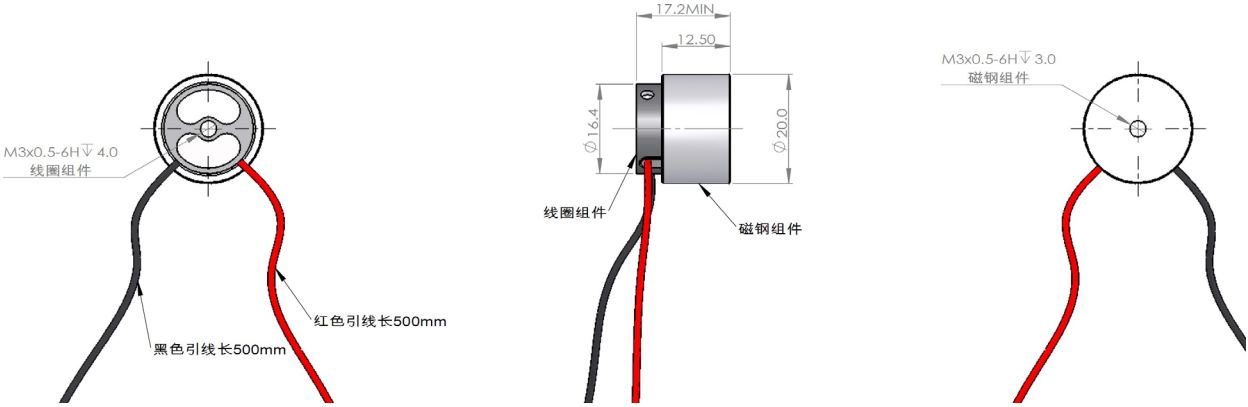
- 额定推力2~700 N，峰值推力6~1000 N
- 行程1~50mm
- 可选外置式位移反馈（磁栅或光栅）
- 最高0.05μ分辨率和0.1μ重复定位精度



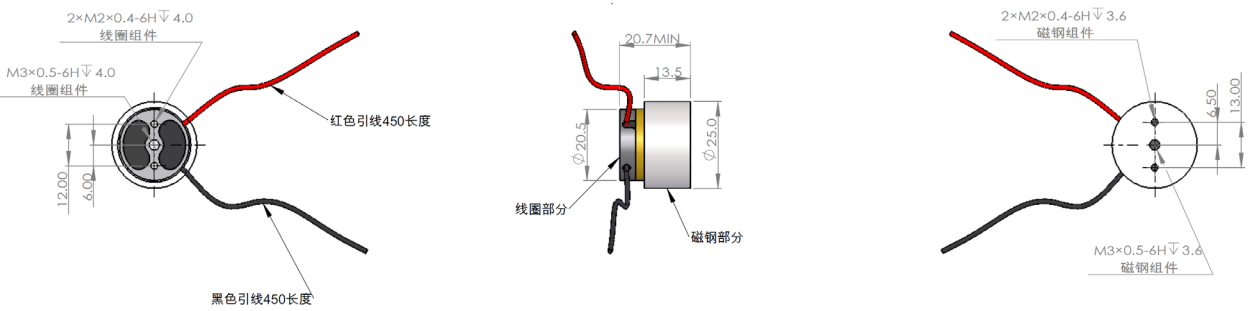
电气参数:

参数	峰值推力	持续推力	峰值电流	额定电流	推力常数	反电动势常数	最大电压	总行程	直流电阻	电感	最大功耗	侧面间隙	热阻	最大线圈温度	线圈组件重量	磁钢组件重量	电机重量
单位	N	N	A	A	N/A	Vpk/m/s	V	mm	Ω	mH	W	mm	a/w	℃	g	g	g
VCM02-04	6.2	2.1	5.5	1.9	1.1	1.1	6.6	3.9	1.2	0.2	36.3	0.5	35.4	150	8	20	28
VCM03-05	6.2	3.3	1.5	0.8	4.2	4.2	1.5	5.0	8.5	0.9	18.5	0.5	24.2	150	9	40	49
VCM05-07	13.0	4.7	2.2	0.8	5.8	5.8	25.1	7.2	11.2	2.4	56.3	0.5	17.2	150	17	60	78
VCM05-15	27.4	5.5	4.0	0.8	6.8	6.8	42.5	15.0	10.6	2.6	170.0	0.5	18.5	155	27	98	125
VCM07-06	15.0	7.2	1.5	0.7	9.8	9.8	24.2	6.3	15.8	2.2	37.0	0.5	14.5	150	15	105	120
VCM07-10	22.0	6.7	3.8	1.2	5.8	5.8	24.7	9.8	6.5	1.0	93.5	0.5	14.8	150	20	163	183
VCM08-10	33.0	8.3	5.6	1.4	5.9	5.9	23.5	10.0	4.2	1.2	132.0	0.5	15.2	150	24	138	162
VCM08-25	25.0	7.8	6.0	1.9	4.2	4.2	26.8	25.2	4.5	1.8	160.0	0.4	8.0	150	52	185	237
VCM09-05	32.0	8.9	4.5	1.3	7.1	7.1	29.3	5.0	6.5	3.3	132.0	0.5	12.2	150	51	254	305
VCM11-45	22.0	11.4	5.5	2.9	4.0	4.0	5.5	45.2	2.2	0.6	79.0	0.4	5.9	150	53	790	843
VCM12-25	44.0	12.0	5.0	1.4	8.9	8.9	43.5	25.4	8.7	4.2	112.8	0.5	7.9	150	70	302	372
VCM13-20	57.9	13.2	4.5	1.0	12.9	12.9	50.5	20.0	11.2	5.2	230.0	0.6	10.5	155	97	220	317
VCM13-22	33.0	13.5	4.9	2.0	6.8	6.8	26.7	22.4	5.5	1.8	130.0	0.5	5.8	150	75	1025	1100
VCM14-08	44.0	13.8	5.8	1.8	7.6	7.6	16.8	7.6	2.9	0.7	97.2	0.5	13.1	150	39	114	153
VCM15-15	45.0	15.6	4.9	1.7	9.2	9.2	27.9	15.0	5.7	2.9	167.0	0.5	7.6	150	58	220	278
VCM16-04	44.0	16.3	4.9	1.8	8.9	8.9	18.3	4.0	3.7	1.0	90.5	0.5	10.0	150	45	225	270
VCM17-56	87.0	17.5	1.7	2.1	8.2	8.2	63.4	56.3	5.9	4.2	680.0	0.6	4.5	150	170	2580	2780
VCM18-06	44.0	17.8	5.5	2.2	8.0	8.0	14.3	6.0	2.6	1.0	79.0	0.5	9.8	150	45	173	218
VCM22-06	89.0	22.6	7.0	1.8	12.7	12.7	33.6	6.3	4.8	1.0	166.0	0.5	9.6	150	50	260	310
VCM28-15	70.0	28.1	4.0	1.6	17.7	17.7	27.2	15.2	6.8	2.5	113.0	0.5	6.9	150	80	390	470
VCM32-10	90.0	32.1	4.5	1.6	20.1	20.1	30.4	10.0	6.8	2.5	136.0	1.0	7.2	150	80	430	510
VCM33-25	100.0	33.4	5.0	1.7	20.0	20.0	34.5	25.2	6.9	6.5	172.0	0.7	6.5	155	220	960	1180
VCM35-09	113.0	35.0	6.5	2.0	17.5	17.5	31.0	8.9	4.8	3.0	200.0	0.5	6.5	150	130	470	600
VCM35-16	107.0	35.4	9.1	3.0	11.5	11.5	20.1	16.5	2.2	2.2	183.5	0.5	6.0	150	150	582	732
VCM35-25	120.0	35.5	8.5	2.5	14.3	14.3	26.1	25.0	3.1	2.6	220.0	0.5	6.5	155	180	695	895
VCM51-18	160.0	51.5	5.8	1.9	27.5	27.5	24.5	18.5	4.2	5.6	142.0	0.5	8.5	150	260	1080	1340
VCM57-49	294.0	56.8	12.0	2.3	24.5	24.5	114	49.8	9.5	20.0	1370	0.5	2.5	155	180	695	895
VCM112-11	266.0	112.0	6.5	2.7	41.0	41.0	35.7	11.4	5.5	4.5	225.0	0.5	3.1	150	275	1160	1435
VCM112-25	266.0	112.0	10.1	4.3	26.2	26.2	28.2	25.2	2.8	5.9	285.0	0.5	2.4	150	740	1260	2000
VCM143-38	445.0	142.6	14.9	4.8	29.8	29.8	38.0	38.0	2.6	5.0	556.0	0.5	2.1	150	1040	3590	4630
VCM149-19	445.0	149.0	10.7	3.6	41.7	41.7	40.7	18.7	3.8	6.2	436.0	0.5	2.5	150	640	1950	2590
VCM167-25	445.0	167.0	11.9	4.5	37.2	37.2	31.6	25.2	2.7	4.8	372.0	0.5	2.3	150	740	2320	3060
VCM382-31	1370.0	381.8	19.9	5.5	68.9	68.9	73.6	31.0	3.7	5.8	1463	0.5	1.1	150	1050	7775	8825
VCM718-25	1000.0	718.0	8.1	5.8	123.5	123.5	35.6	25.2	4.4	6.3	289.0	0.5	0.8	150	1390	9400	10790

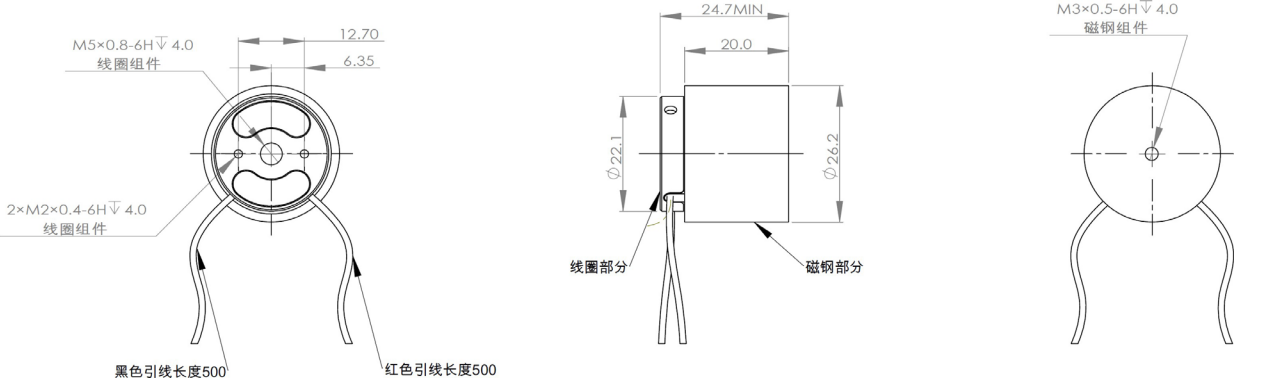
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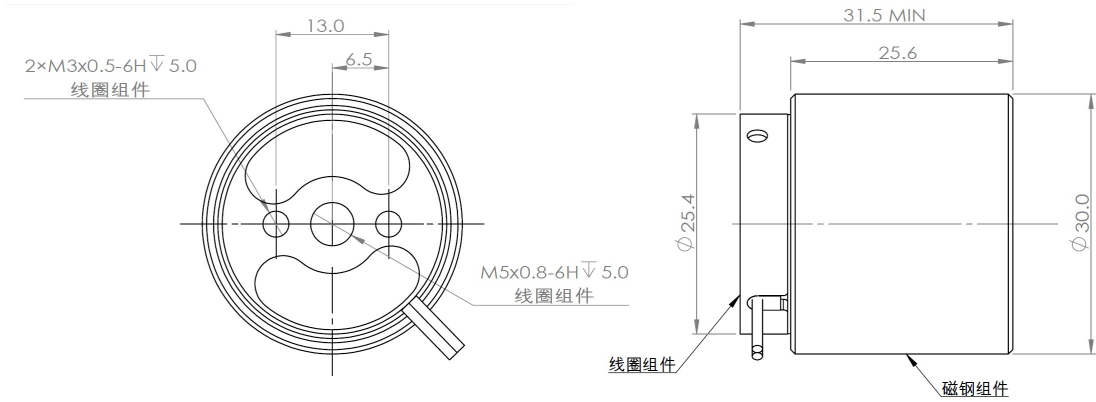
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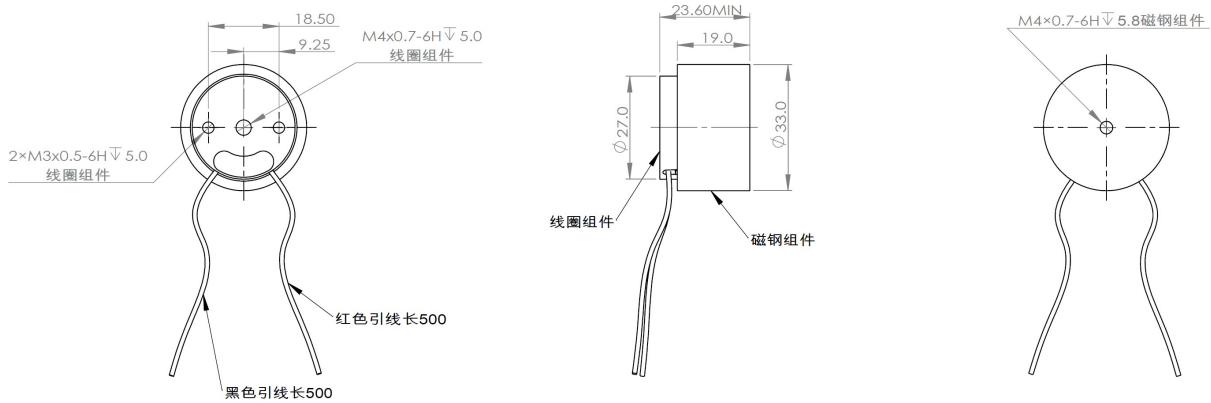
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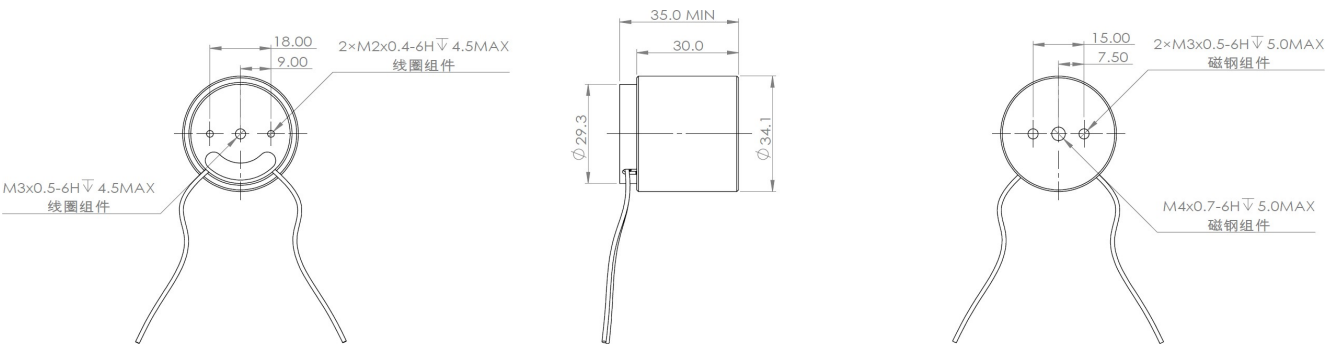
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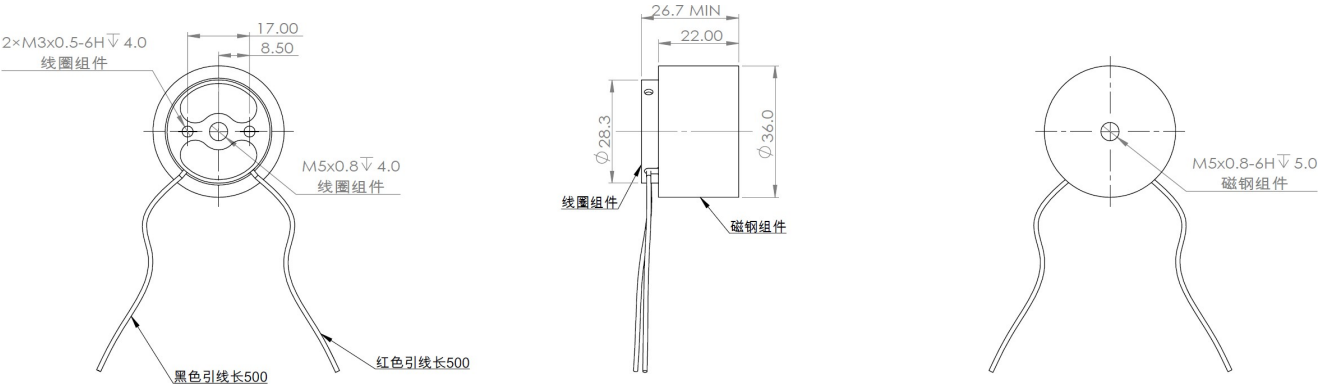
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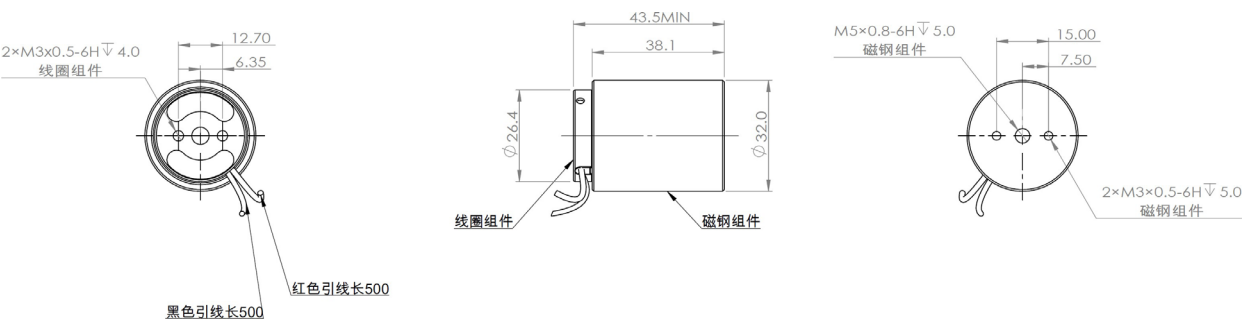
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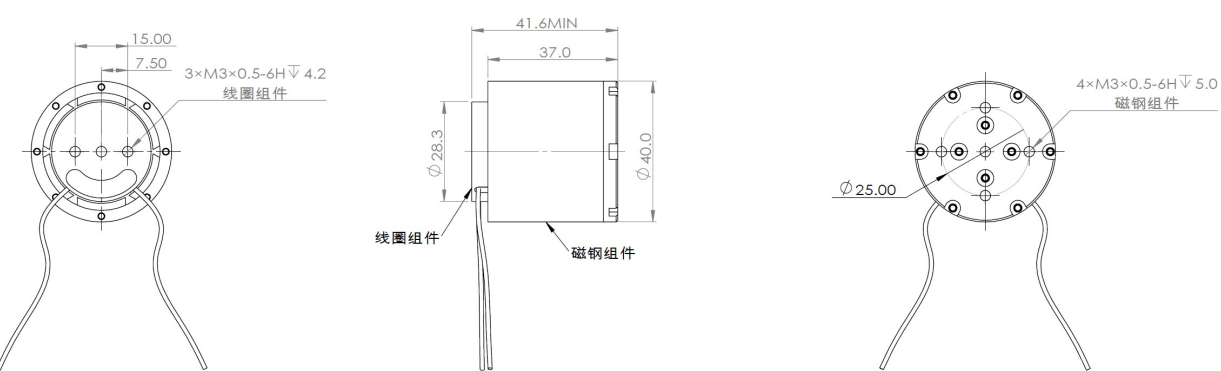
VCM08-10



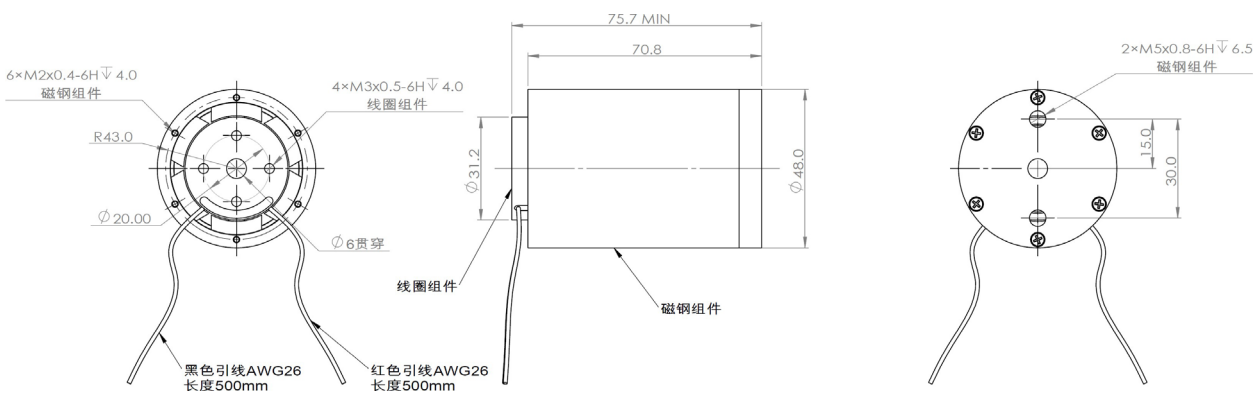
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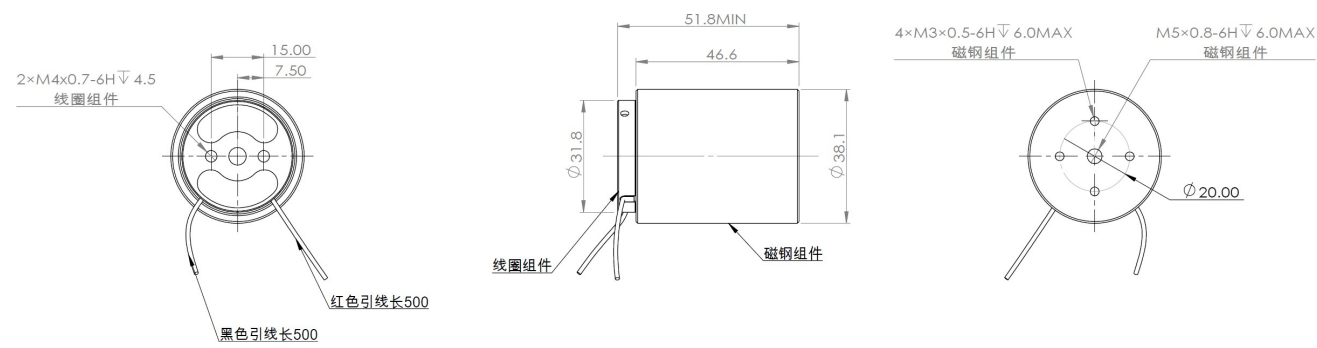
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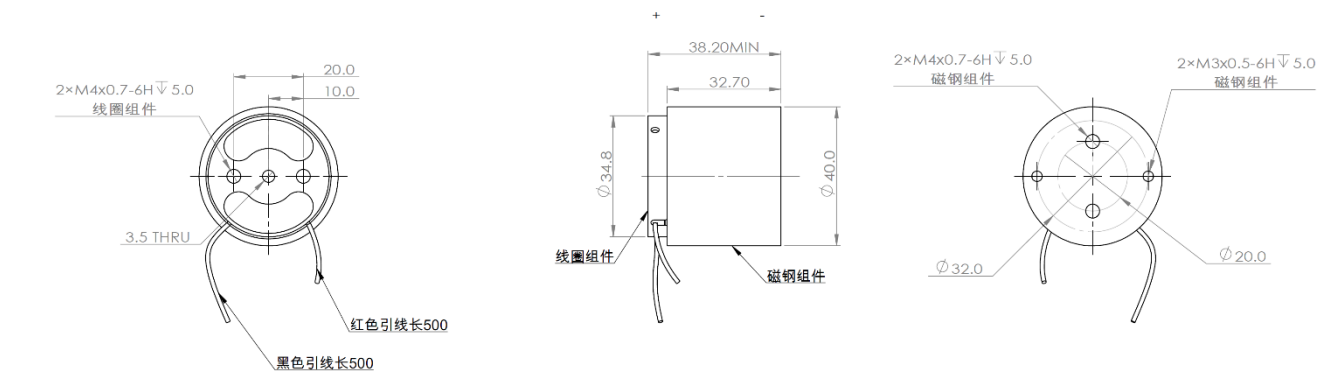
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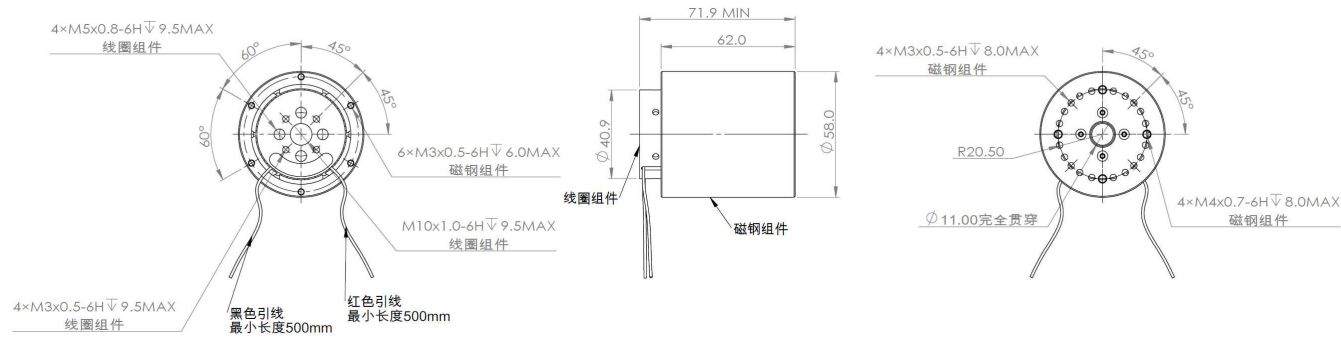
VCM12-25



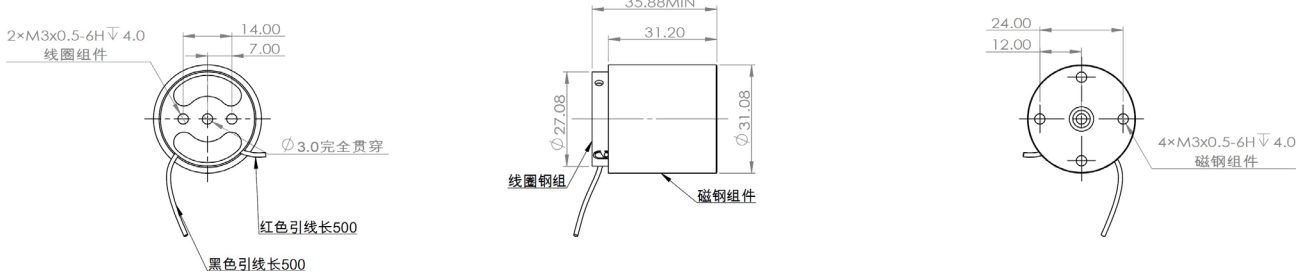
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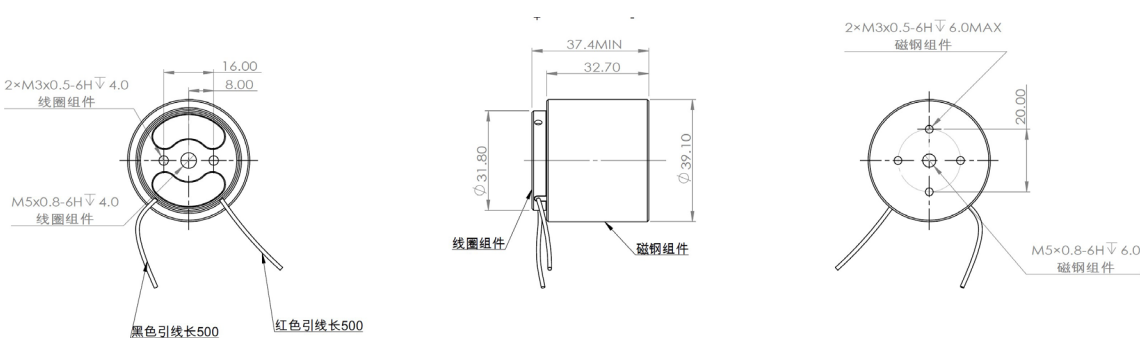
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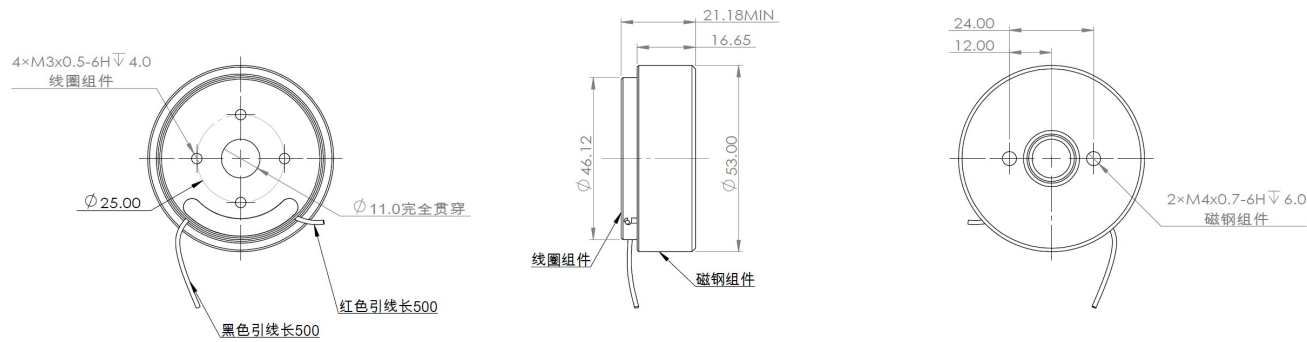
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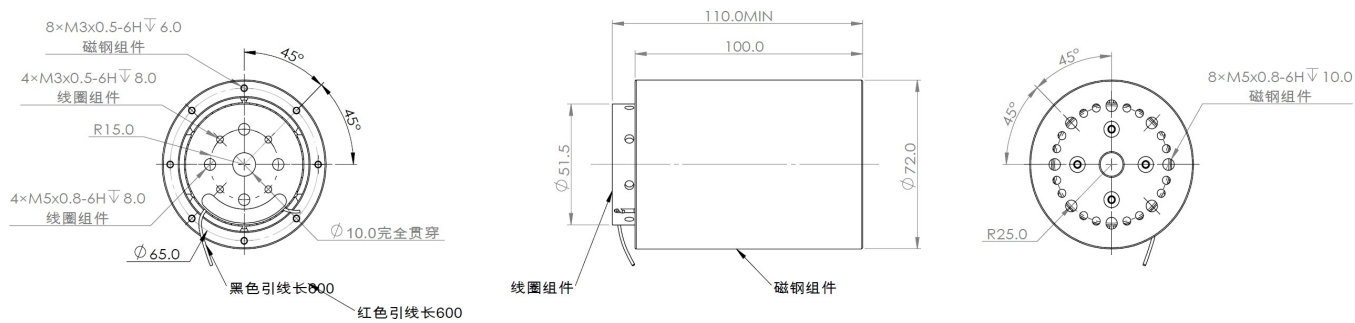
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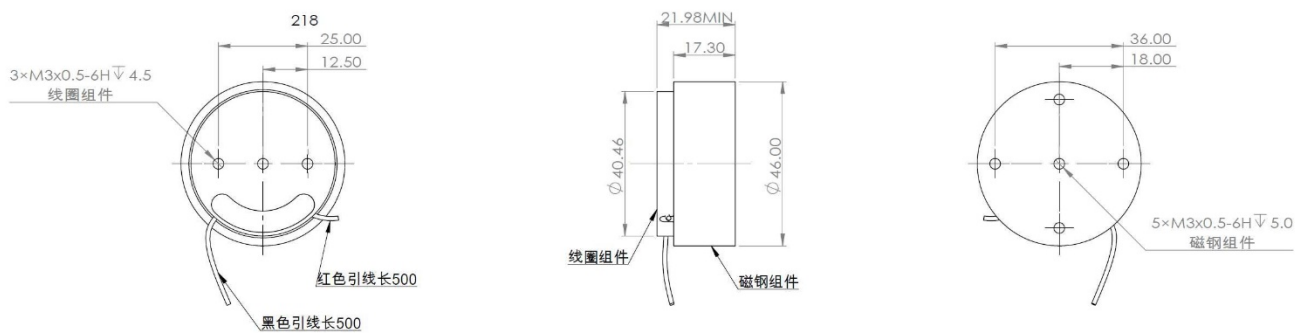
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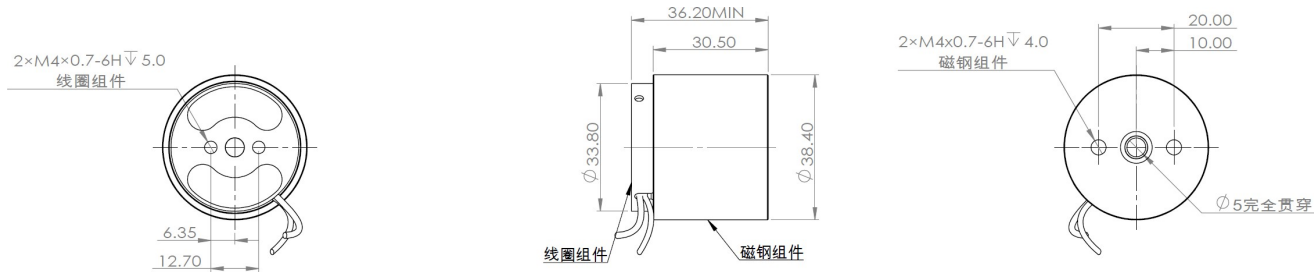
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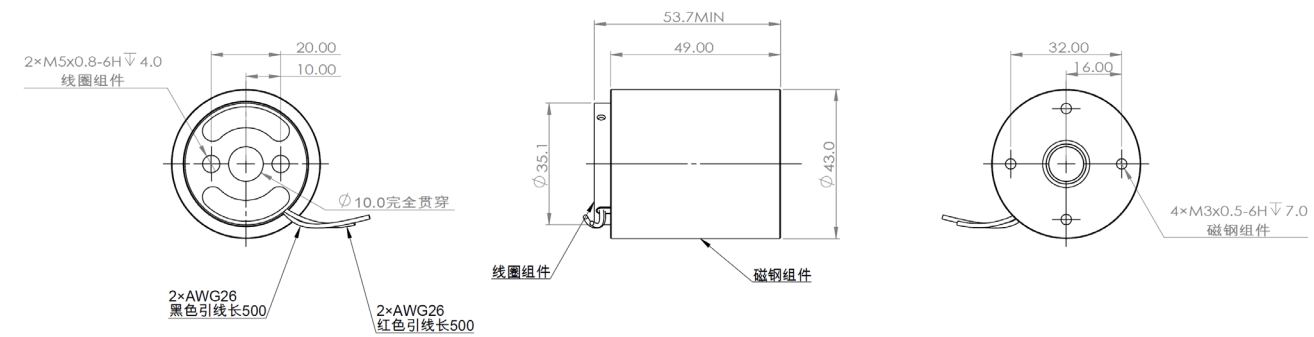
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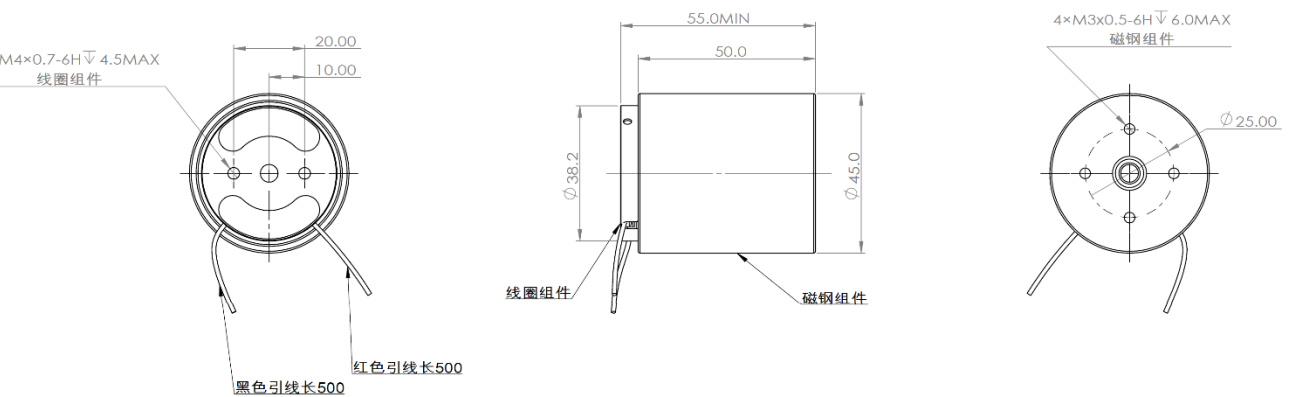
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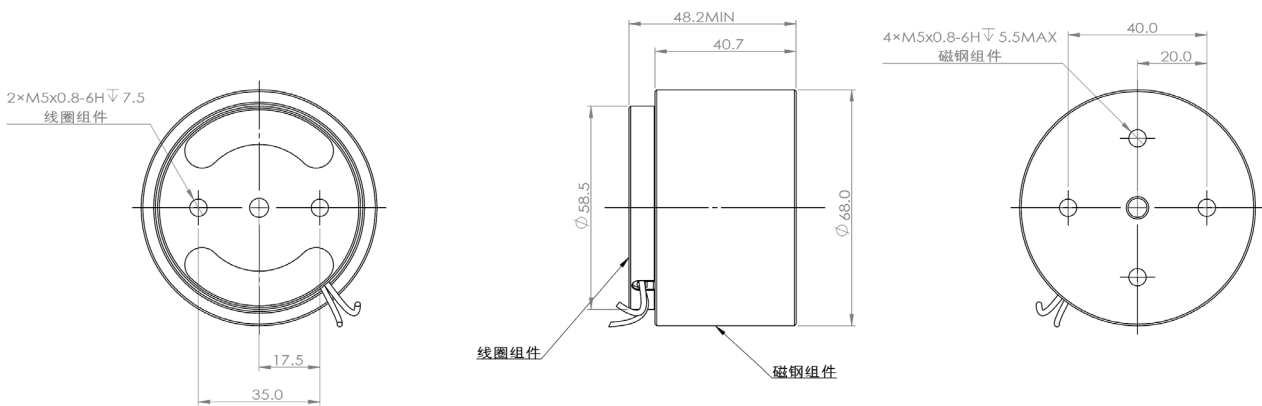
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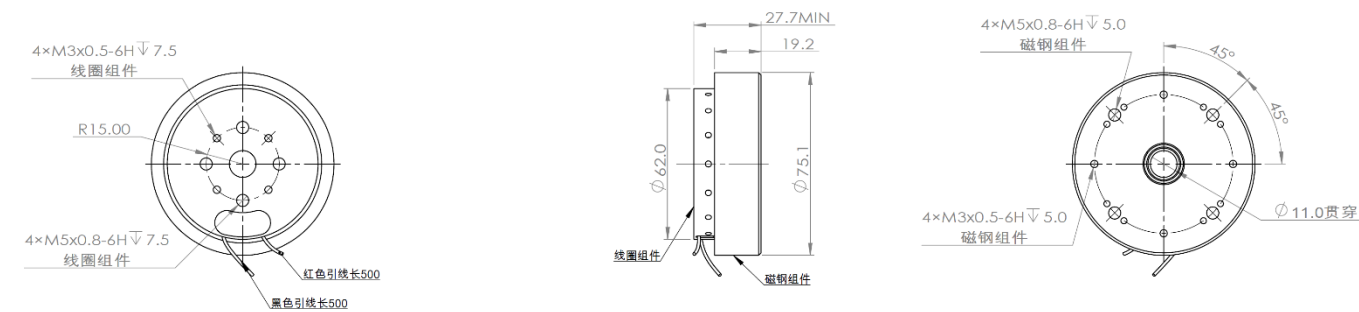
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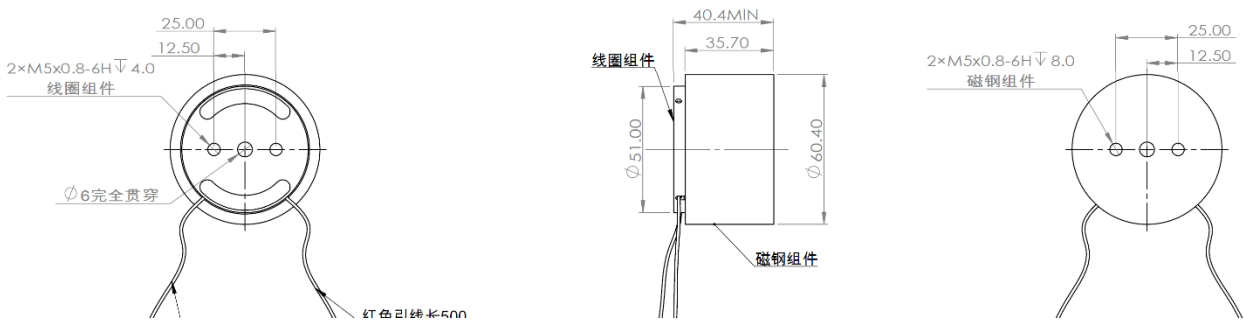
VCM33-25



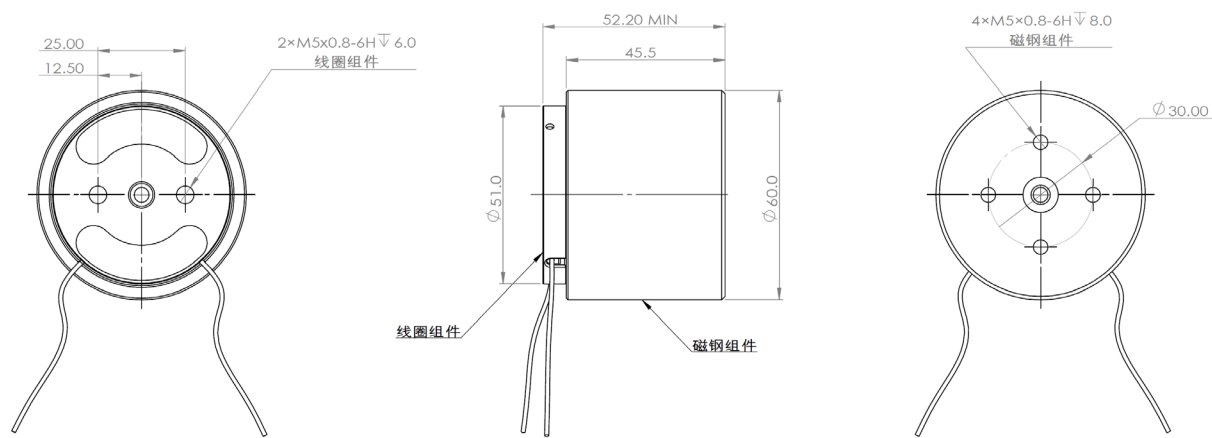
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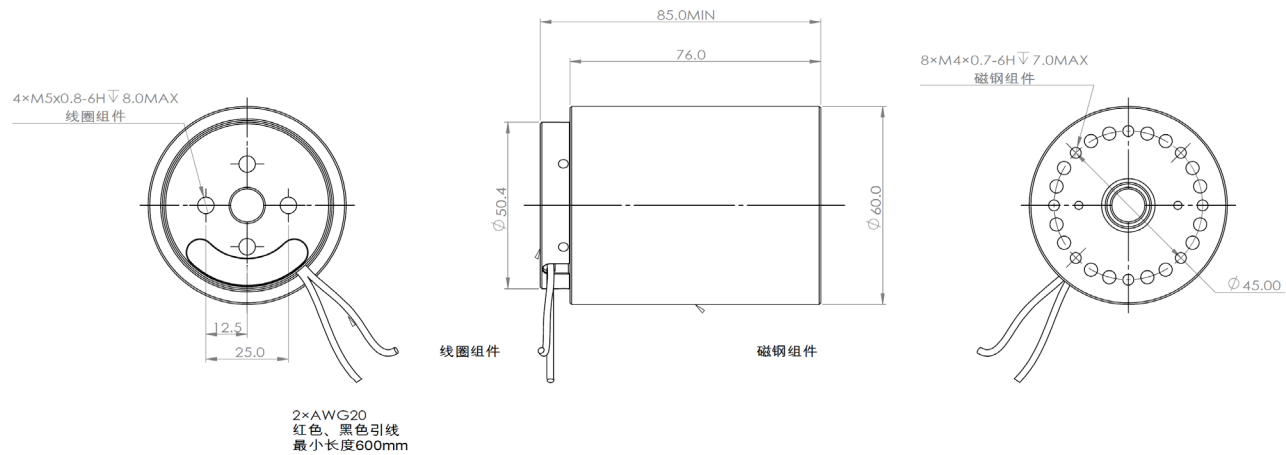
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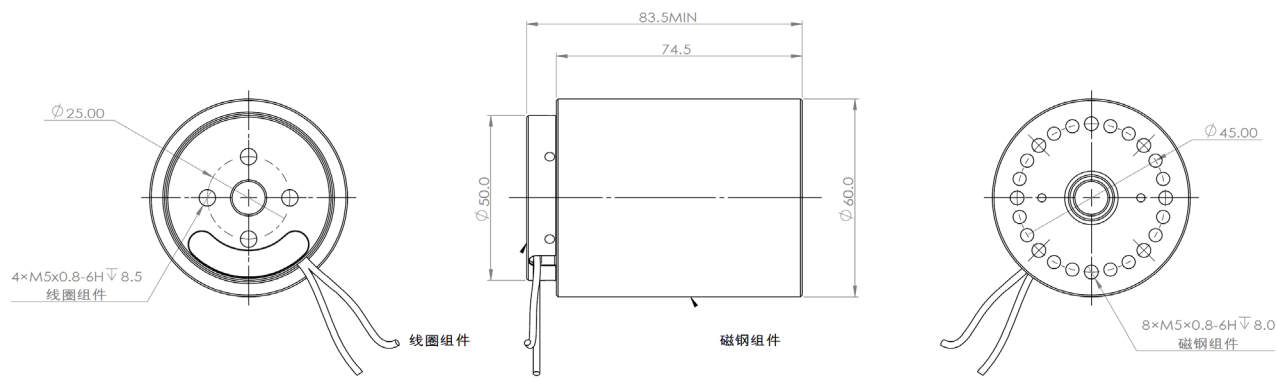
VCM35-25



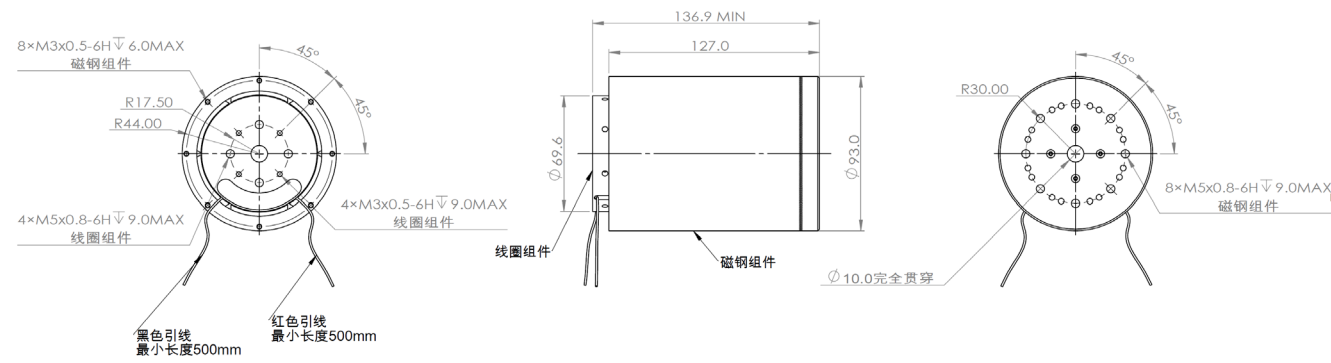
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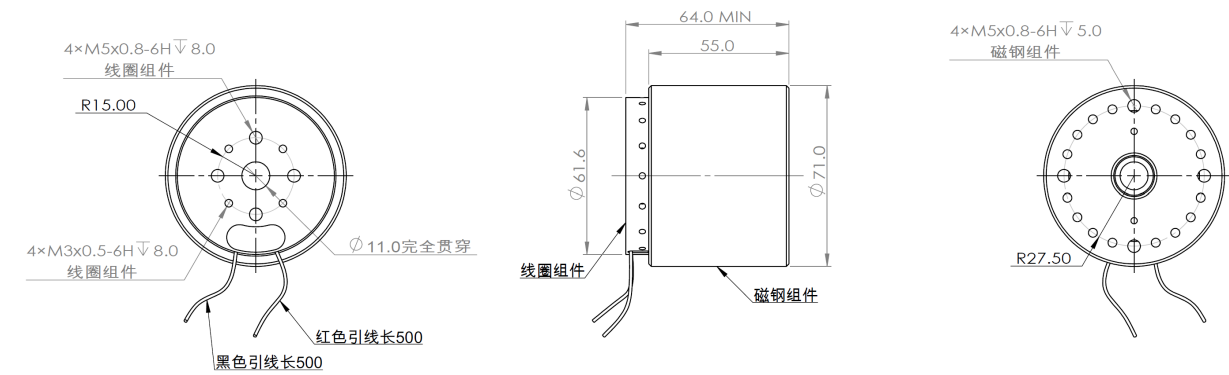
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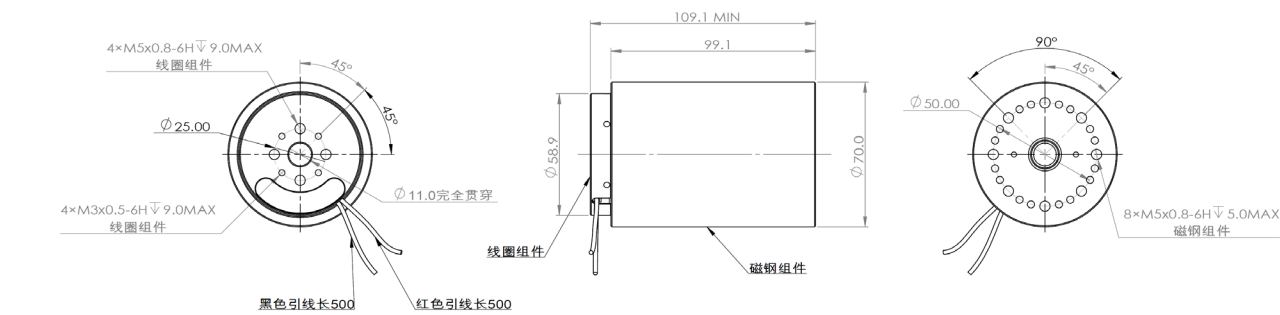
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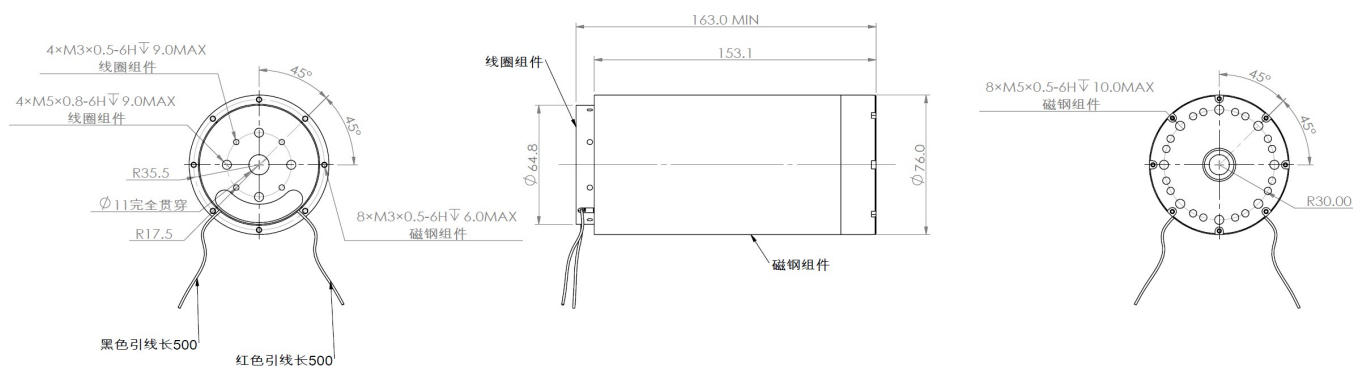
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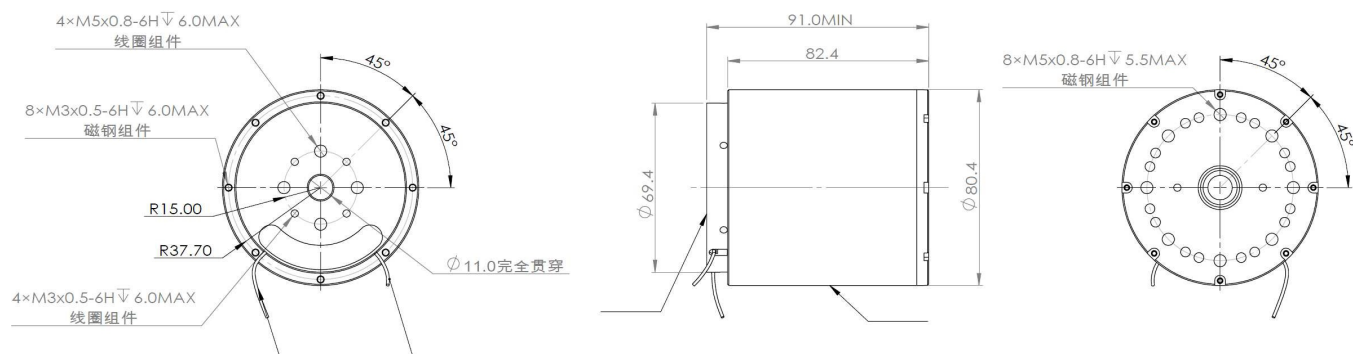
VCM112-25



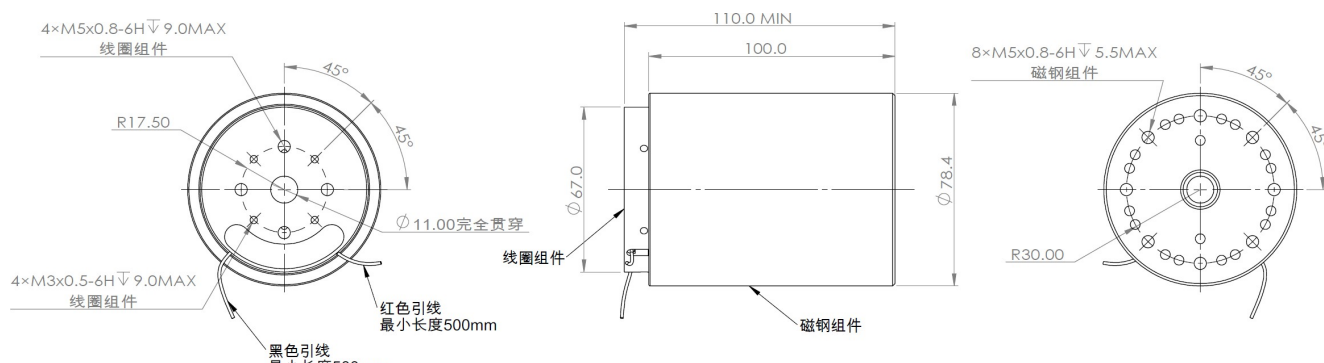
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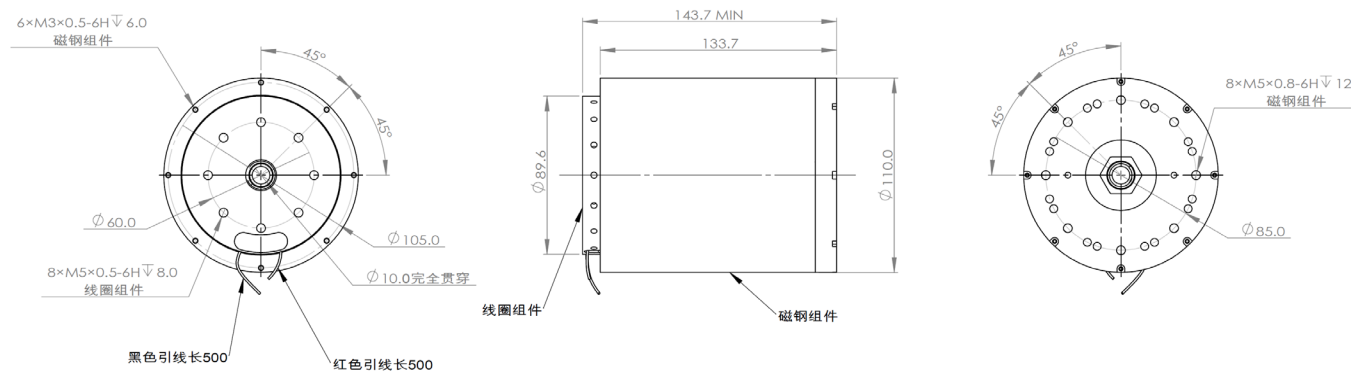
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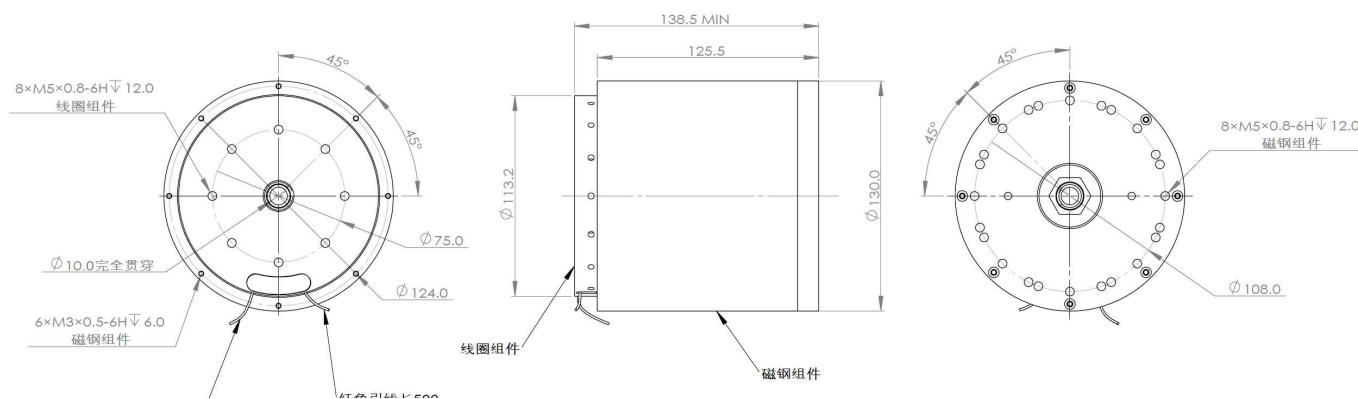
VCM167-25



VCM382-31



VCM718-25



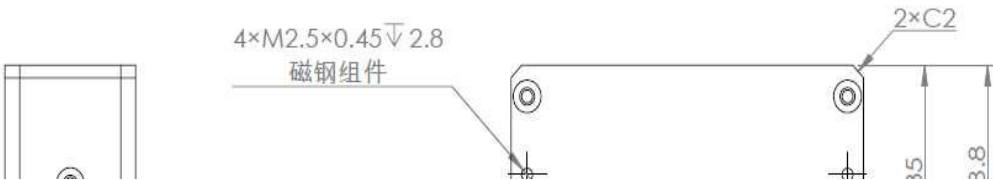
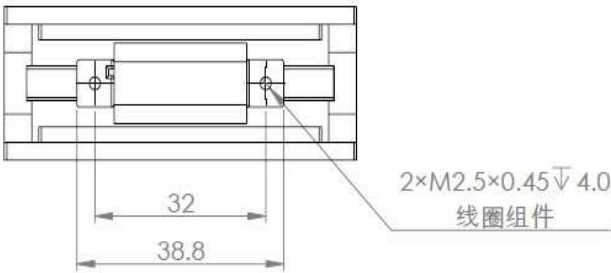


参数列表

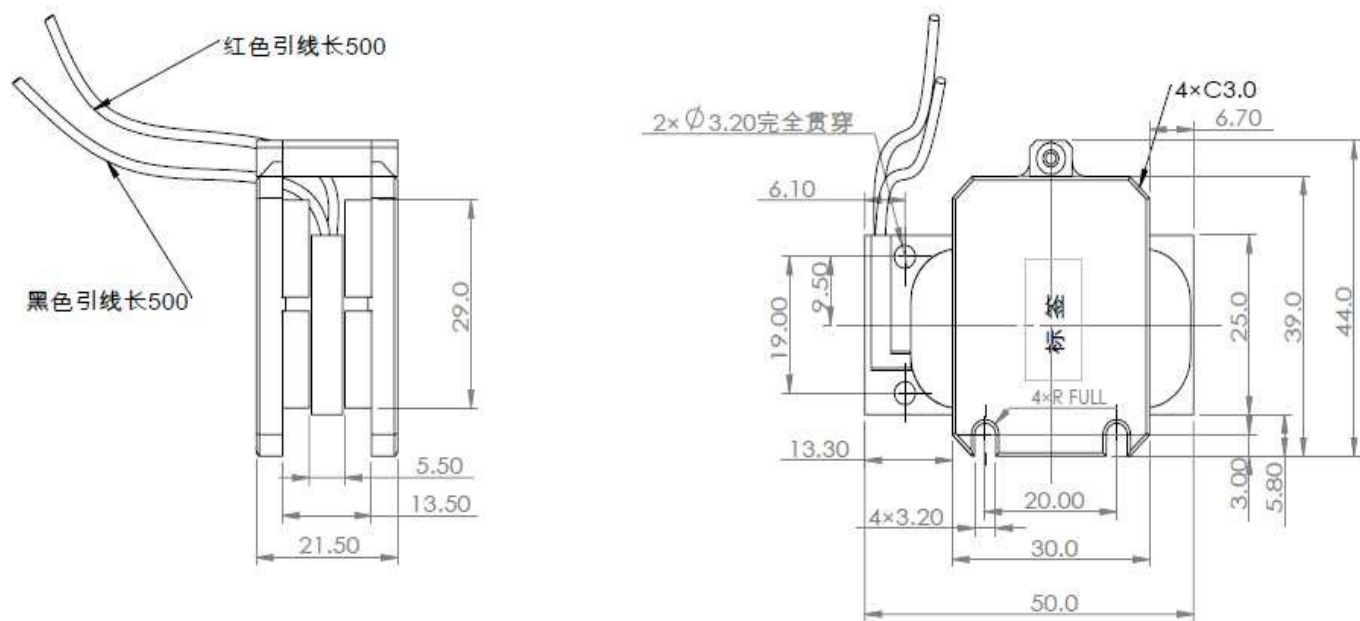
参数	单位	VCMP07-25	VCMP09-07	VCMP22-100
峰值推力	N	20	20	65
持续推力	N	7.5	9.2	22.4
峰值电流	A	3.4	4.5	6.7
额定电流	A	1.25	2.1	2.3
推力常数	N/A	6	4.4	9.7
反电动势常数	Vpk/m/s	6	4.4	9.7
最大电压	V	16.5	8.2	28.7
总行程	mm	25	6.8	100
直流电阻	Ω	4.9	1.8	4.3
电感	mH	1.8	0.5	3.45
最大功耗	W	54	37.2	192
侧面间隙	mm	0.5	0.4	0.5
热阻	a/w	16.5	15.8	5.5
线圈允许最高温度	$^{\circ}\text{C}$	155	150	150
线圈组件重量	g	55	26	140
磁钢组件重量	g	295	126	3720
电机重量	g	350	152	3860

VCMP08-25

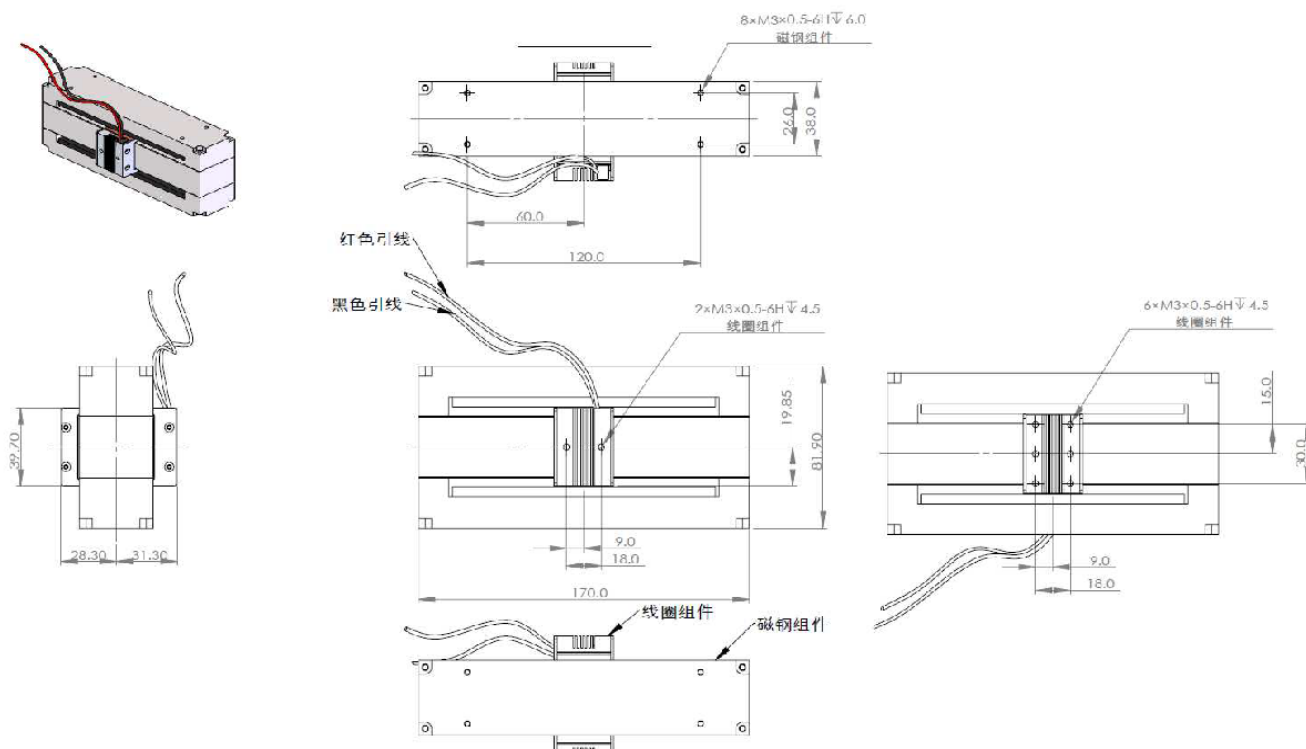
18
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VCMP09-07



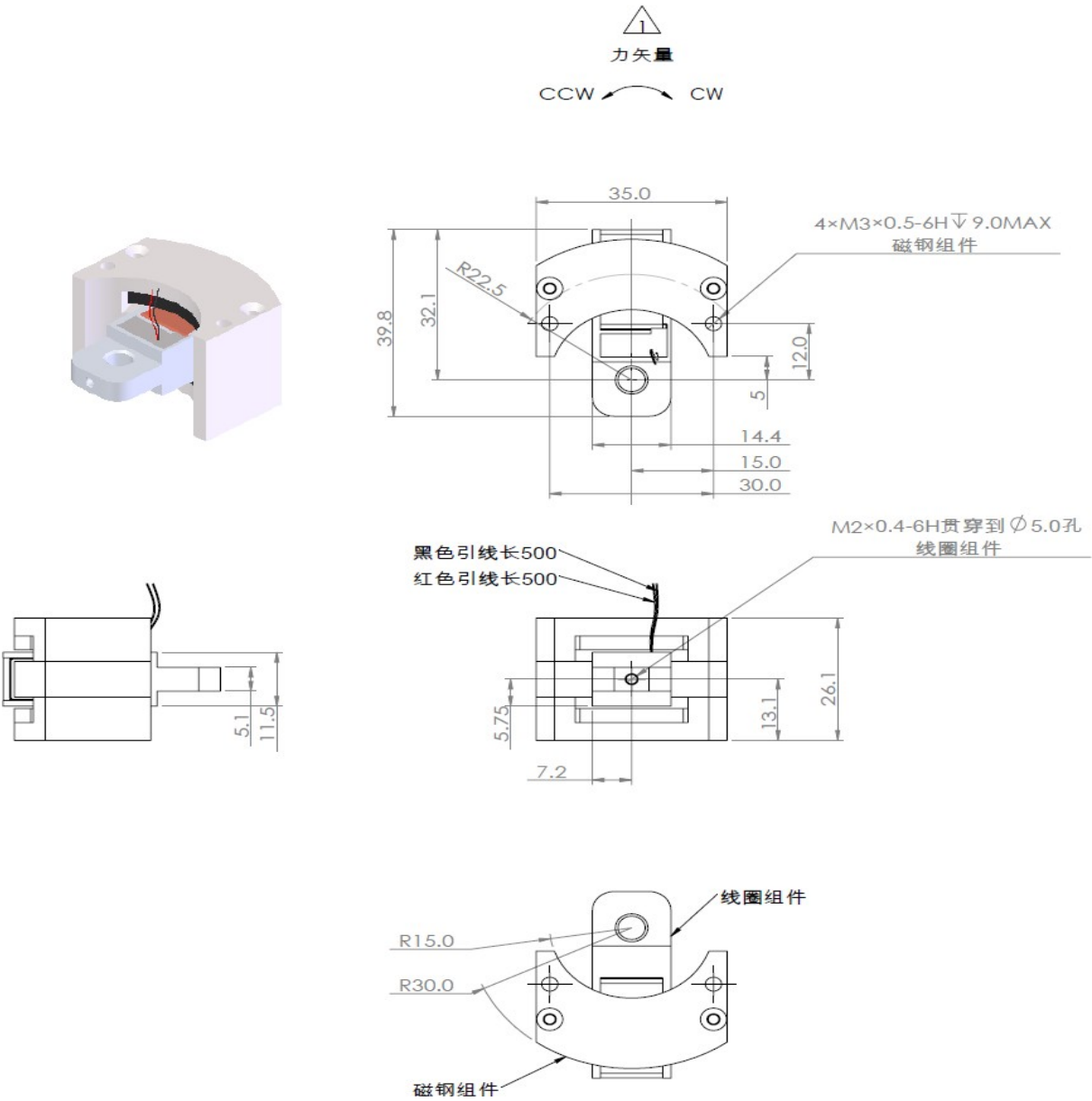
VCMP22-100



参数列表

参数	峰值推力	持续推力	峰值电流	额定电流	推力常数	反电动势常数	最大电压	总行程	直流电阻	电感	最大功耗	侧面间隙	热阻
单位	Nm	Nm	A	A	N/A	Vpk/m/s	V	mm	Ω	mH	W	mm	a/w
RS08-26-00A	0.078	0.05	1.72	1.1	0.045	0.045	6.2 26°		3.6	0.39	11.3	0.5	27.6
RS08-32-00A	0.22	0.12	1.4	0.75	0.16	0.16	15.5 32°		11.3	2	21.3	0.5	18.2

RS08-26-00A



RS08-32-00A

