

Force

- Peak: 6-1000N
- Continuous: 2-700N

Maximum Acceleration

- >20G

External Feedback

- Optical and Magnetic Encoder is optional
- Maximum 0.05 micron resolution and 0.1 micron repeatability

Range of motion

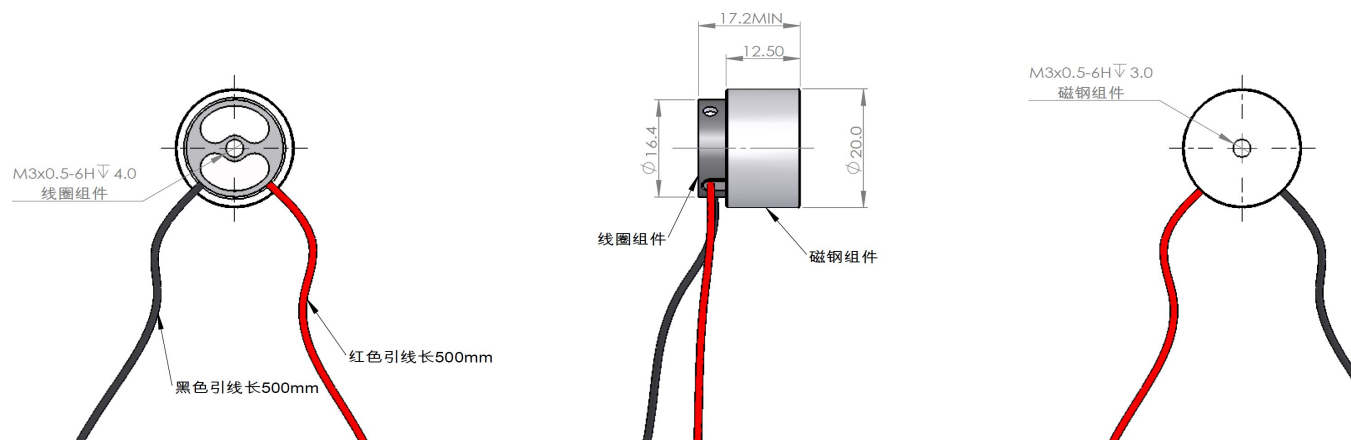
- 1mm-50mm



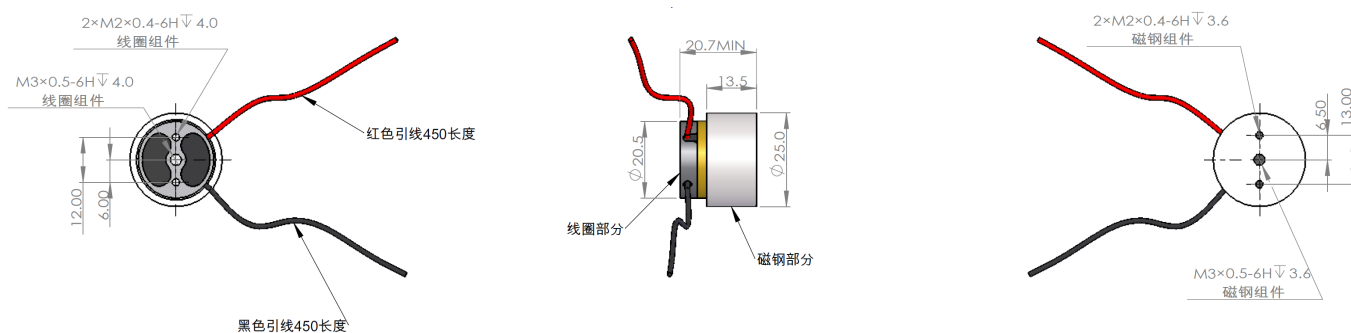
Electrical Specification:

Model	Coil Resistance	Max. Terminal Voltage	Peak Current	Force Constant	Back EMF Constant	Inductance	Peak Force @ 150°C within 10Second	Continuous Stall Force @ 150°C	Motor Constant	Electrical time constant	Power at peak force	Stroke	Clearance of coil	Thermal resistance	Max coil temperature	Coil assembly mass	Core assembly mass
Symbol	R	Vp	Ip	Kf	Kb	L	Fp	Fc	Ka	Te	Pp	S	CL	θth	Tmax	WTc	WTf
Unit	ohm	V	A	N / A	V / m/s	mH	N	N	N / vW	ms	W	mm	mm	α/W	°C	g	g
02-04	1.2	6.6	5.5	1.12	1.12	0.18	6.2	2.1	1.02	0.15	36.3	3.9	0.5	35.4	150	8	20
05-07	11.2	25.1	2.2	5.80	5.80	2.4	12.0	4.7	1.73	0.21	56.3	7.2	0.5	17.2	150	17	60
07-10	6.5	24.7	3.8	5.80	5.80	1.0	22.0	6.7	2.27	0.15	93.5	9.8	0.5	14.8	150	20	163
11-45	2.2	14.3	5.5	4.00	4.00	0.6	22.0	11.4	2.48	0.25	79.0	45.2	0.4	5.9	150	53	790
03-05	8.5	12.5	1.5	4.20	4.20	0.9	6.2	3.3	1.44	0.10	18.5	5.0	0.5	24.2	150	9	40
5-15	10.6	42.5	4.0	6.84	6.84	2.6	27.4	5.5	2.10	0.25	170.0	15.0	0.5	18.5	155	27	98
07-6	15.8	24.2	1.5	9.80	9.80	2.2	15.0	7.2	2.47	0.14	37.0	6.3	0.5	14.5	150	15	105
08-10	4.2	23.5	5.6	5.90	5.90	1.2	33.0	8.3	2.88	0.29	132.0	10.0	0.5	15.2	150	24	138
08-25	4.5	26.8	6.0	4.20	4.20	1.8	25.0	7.8	1.98	0.36	160.0	25.2	0.4	8.0	150	52	185
09-05	6.5	29.3	4.5	7.10	7.10	3.3	32.0	8.9	2.78	0.57	132.0	5.0	0.5	12.2	150	51	254
14-15	2.2	14.3	5.5	4.00	4.00	0.6	22.0	11.4	2.48	0.25	79.0	45.2	0.4	5.9	150	53	790
12-25	8.7	43.5	5.0	8.88	8.88	4.2	44.0	12.0	3.02	0.48	213.0	25.2	0.5	7.9	150	70	302
13-20	11.2	50.5	4.5	12.86	12.86	5.2	57.9	13.2	3.84	0.46	230.0	20.0	0.6	10.4	155	97	220
13-22	5.5	26.7	4.9	6.80	6.80	1.8	33.0	13.5	2.90	0.33	130.0	22.4	0.5	5.8	150	75	1025
14-08	2.9	16.8	5.8	7.60	7.60	0.7	44.0	13.8	4.46	0.25	97.2	7.6	0.5	13.1	150	39	114
15-10	1.7	11.9	7.0	5.00	5.00	1.0	35.0	15.6	3.80	0.59	83.5	10.5	0.5	7.5	150	95	685
15-15	5.7	27.9	4.9	9.20	9.20	2.9	45.0	15.6	3.85	0.51	167.0	15.0	0.5	7.6	150	58	220
16-04	3.7	18.3	3.9	8.90	8.90	1.0	44.0	16.3	4.60	0.27	90.5	4.0	0.5	10.0	150	45	225
17-56	5.9	63.4	10.6	8.20	8.20	4.2	87.0	17.5	3.33	0.71	680.0	56.3	0.6	4.5	150	170	2580
18-06	2.6	14.3	5.5	8.00	8.00	1.0	44.5	17.8	4.96	0.37	79.0	6.0	0.5	9.8	150	45	173
22-06	4.8	33.6	7.0	12.70	12.70	1.0	89.0	22.6	6.20	0.21	166.0	6.3	0.5	9.6	150	50	260
23-10	7.0	32.0	4.5	17.20	17.20	1.6	78.0	23.5	6.50	0.23	145.0	9.5	0.4	9.6	150	65	275
28-15	6.8	27.2	4.0	17.70	17.70	2.5	70.0	28.1	6.60	0.37	113.0	7.6	0.5	6.9	150	80	390
33-25	6.9	34.5	5.0	20.00	20.00	6.5	18.0	33.4	7.61	0.94	172.0	25.2	0.7	6.5	155	220	960
35-09	4.8	31.0	6.5	17.50	17.50	3.0	113.0	35.0	8.00	0.63	28.0	8.9	0.5	6.5	150	130	470
35-16	2.2	20.1	9.1	11.50	11.50	2.2	107.0	35.4	7.75	0.98	183.5	16.5	0.5	6.0	150	150	582
35-25	3.1	26.1	8.5	14.25	14.25	2.6	120.0	35.5	8.09	0.85	220.0	25.0	0.5	6.5	155	180	695
51-18	4.2	24.5	5.8	27.50	27.50	5.6	160.0	51.5	13.42	1.33	142.0	18.5	0.5	8.5	150	260	1080
53-18	1.7	10.5	6.0	26.50	26.50	2.8	160.0	53.0	20.30	1.65	62.0	18.5	0.5	18.4	150	460	1080
57-49	9.5	114.0	12.0	24.50	24.50	20.0	294.0	56.8	7.95	2.11	1370.0	49.8	0.5	2.5	150	78	5140
112-11	5.5	35.7	6.5	41.00	41.00	4.3	266.0	112.0	17.50	0.78	225.0	11.4	0.5	3.1	150	275	1160
112-25	2.8	28.2	10.1	26.20	26.20	5.9	266.0	112.0	15.50	2.10	285.0	25.2	0.5	2.4	150	740	1260
143-38	2.6	38.0	14.9	29.80	29.80	5.0	445.0	142.6	18.40	1.90	556.0	38.0	0.5	2.1	150	1040	3590
149-19	3.8	40.7	10.7	41.70	41.70	6.2	445.0	149.0	20.90	1.60	436.0	18.7	0.5	2.5	150	640	1950
167-25	2.7	31.6	11.9	37.20	37.20	4.8	445.0	167.0	22.60	1.78	372.0	25.2	0.5	2.3	150	740	2320
382-31	3.7	73.6	19.9	68.90	68.90	5.8	1370.0	381.8	35.8	1.60	1463.0	31.2	0.5	1.1	150	1050	7775
600-25	4.5	43.0	9.5	105.00	105.00	6.5	1000.0	600.0	49.50	1.44	408.0	25.2	1.0	0.9	150	1400	9500
718-25	4.4	35.6	8.1	123.50	123.50	6.3	1000.0	718.0	58.80	1.43	289.0	25.2	0.5	0.8	150	1390	9400

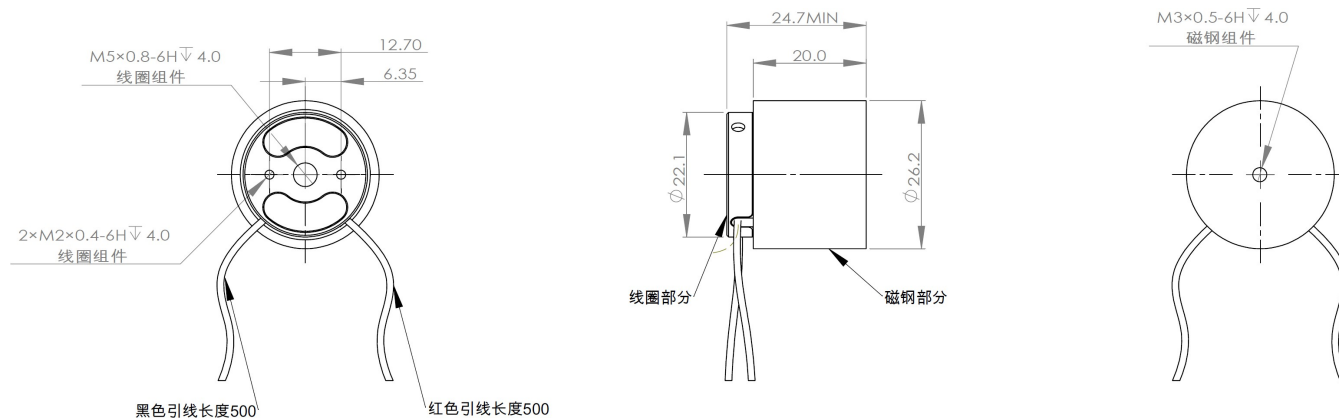
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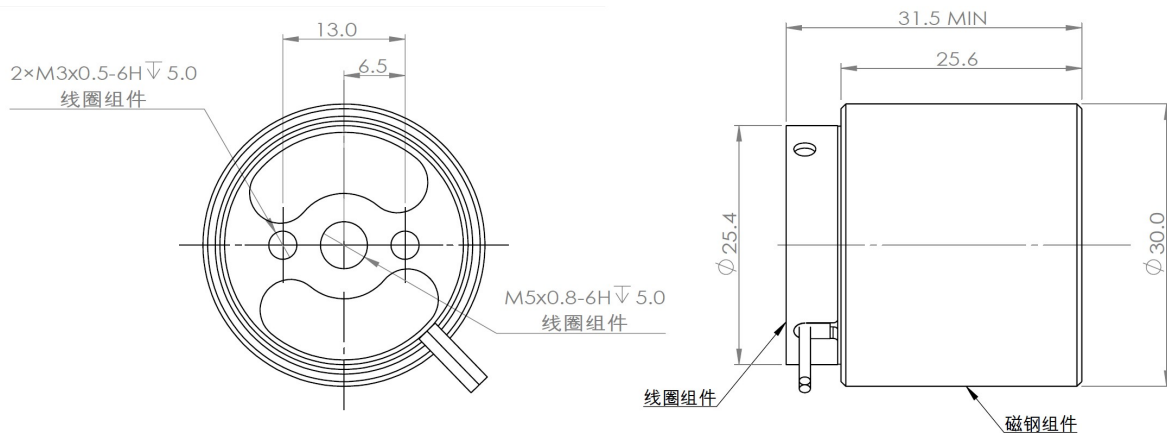
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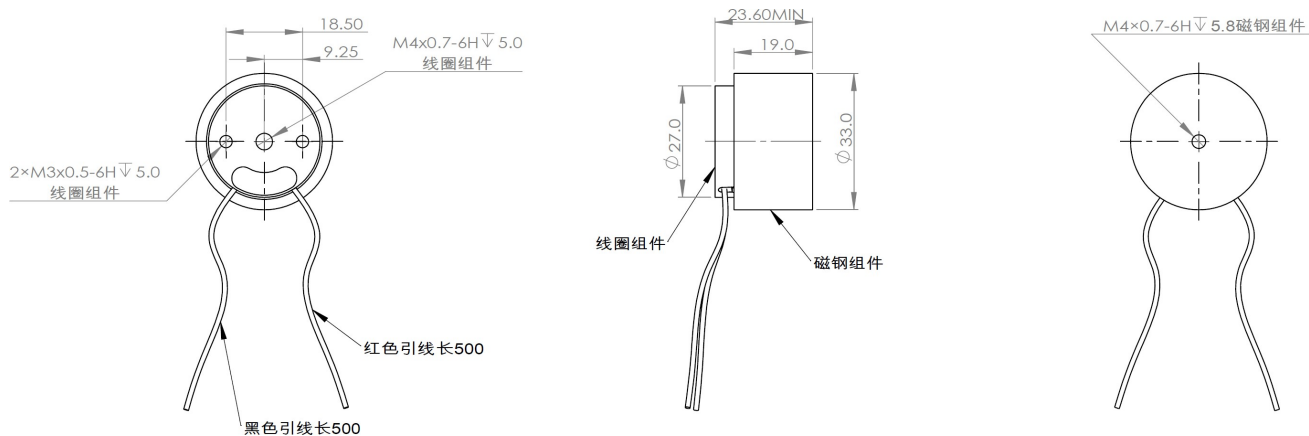
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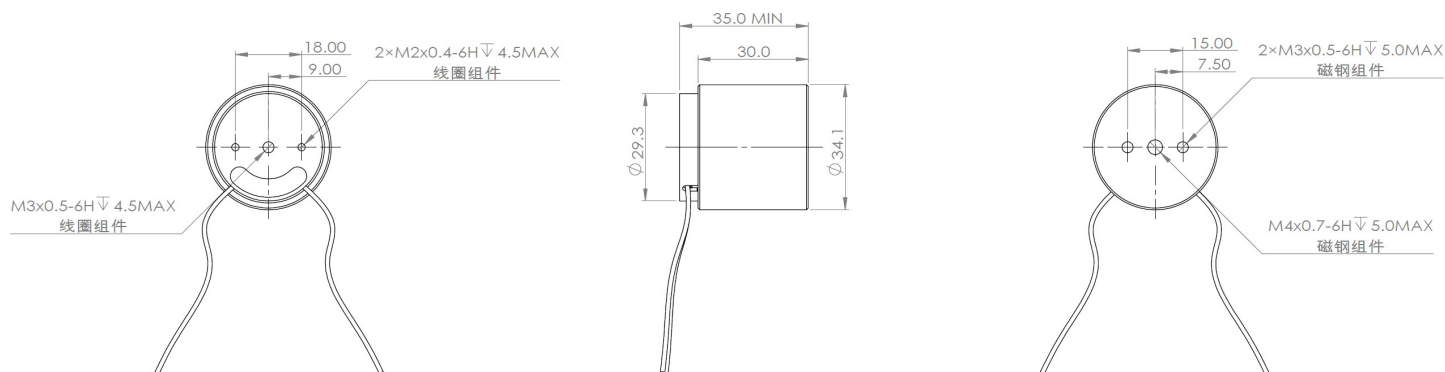
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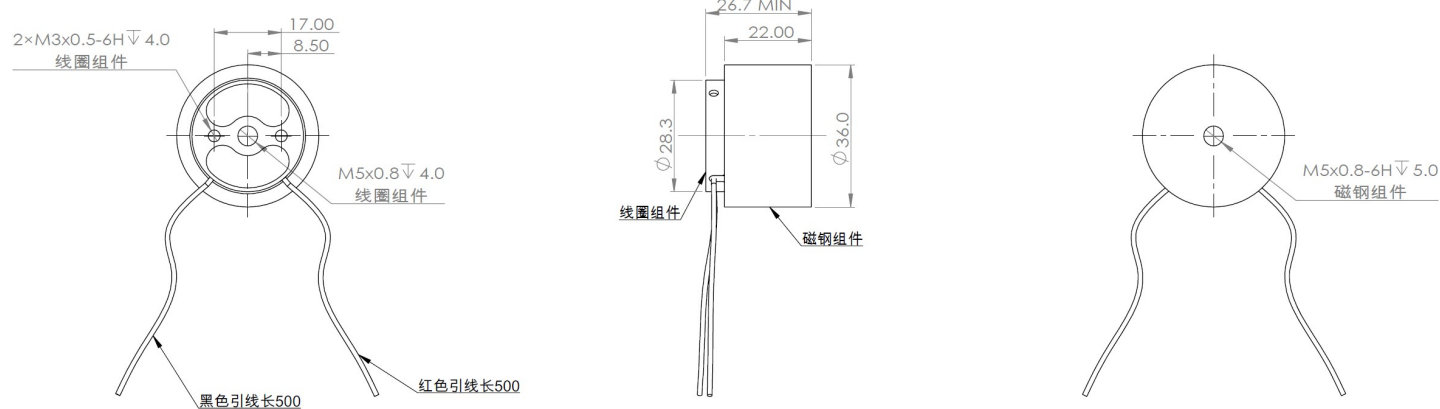
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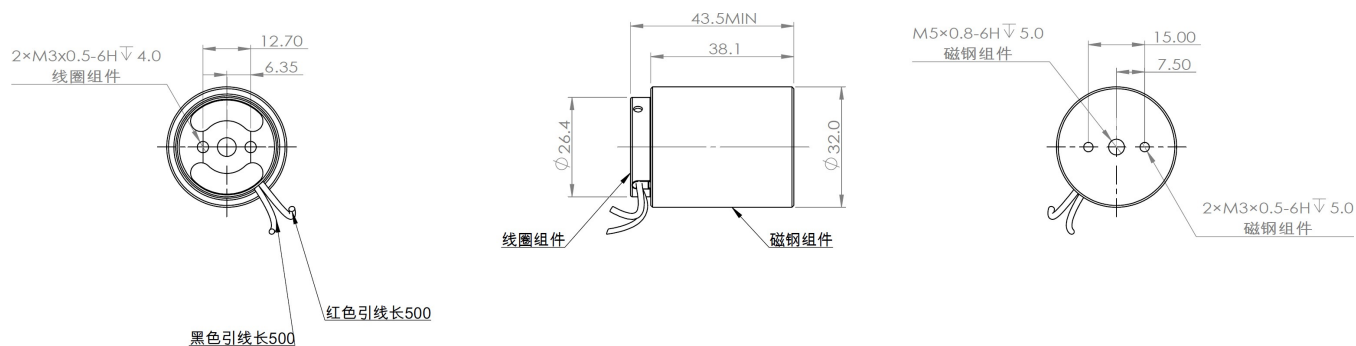
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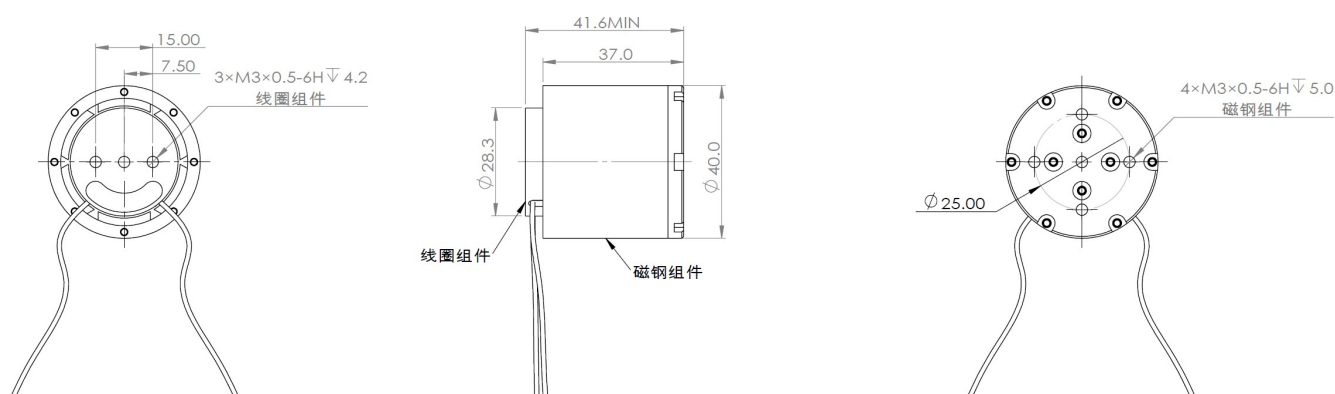
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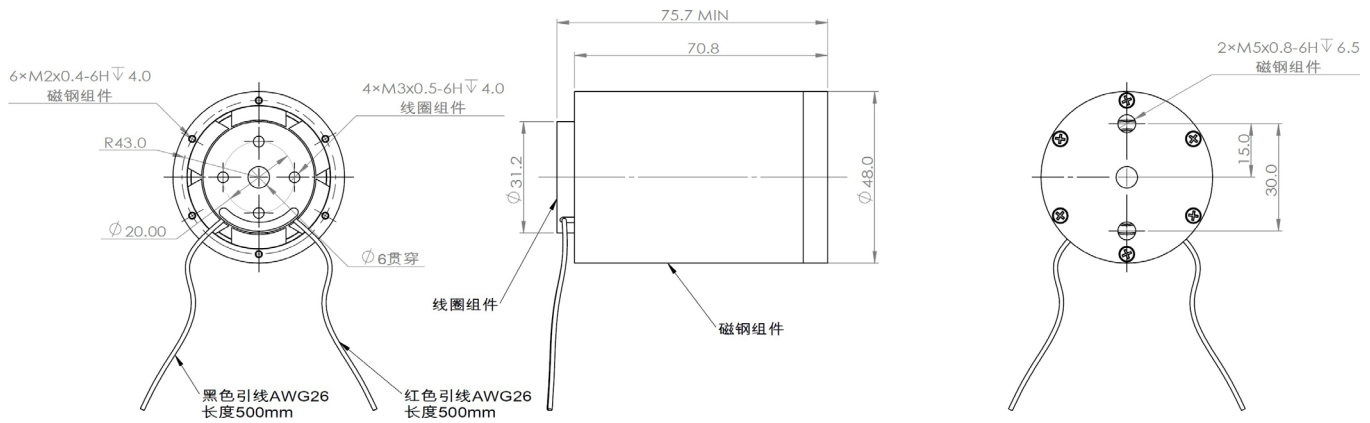
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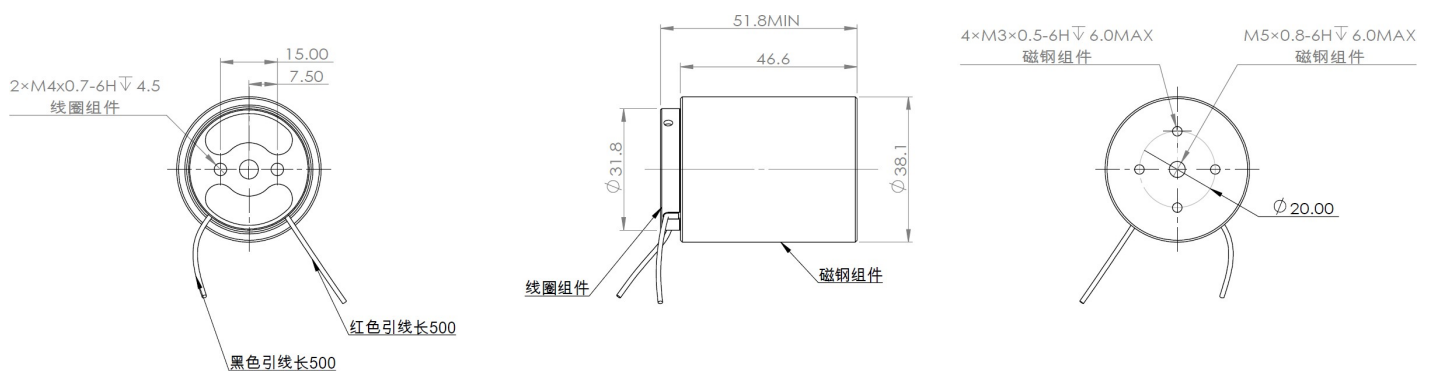
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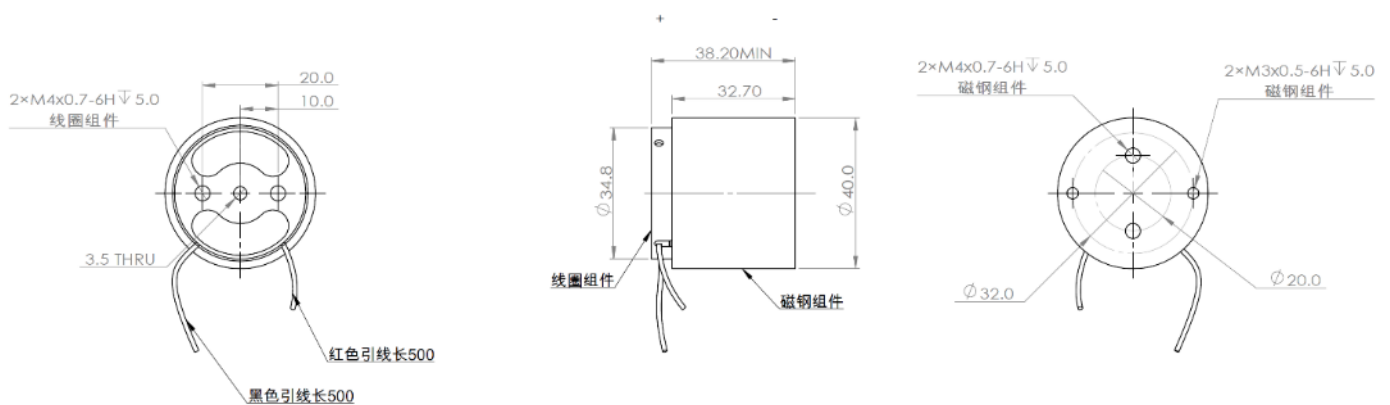
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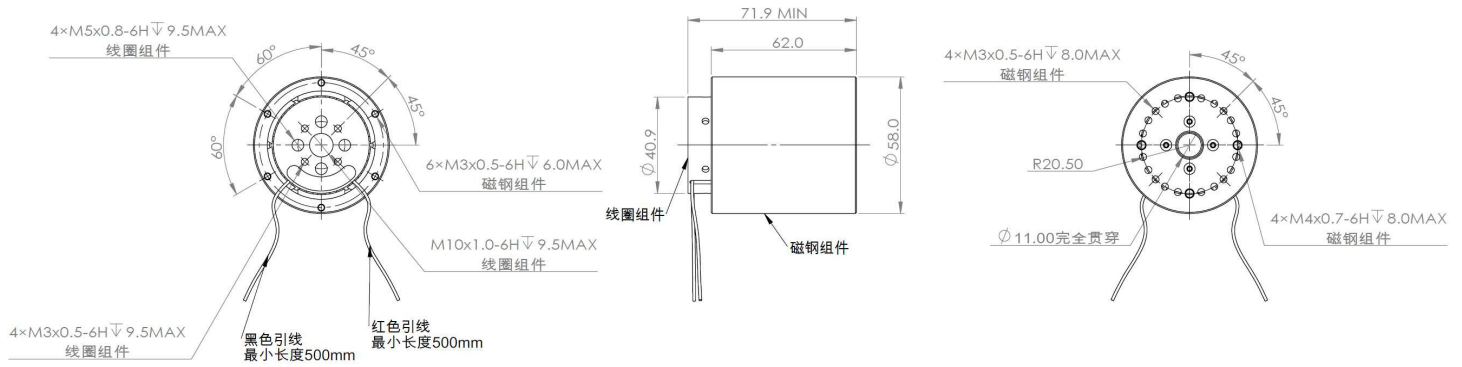
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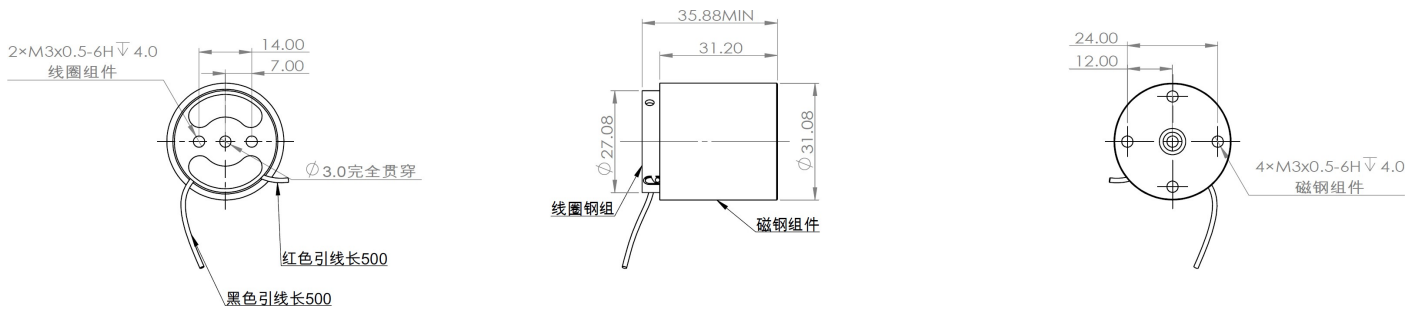
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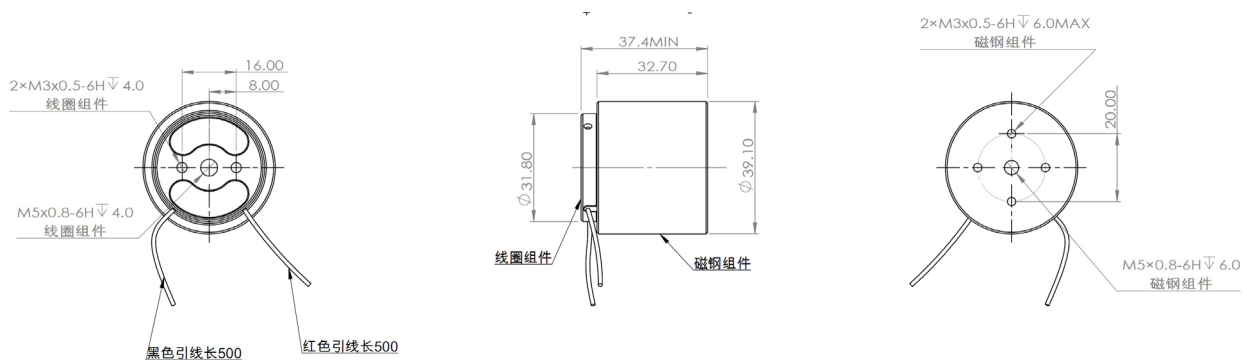
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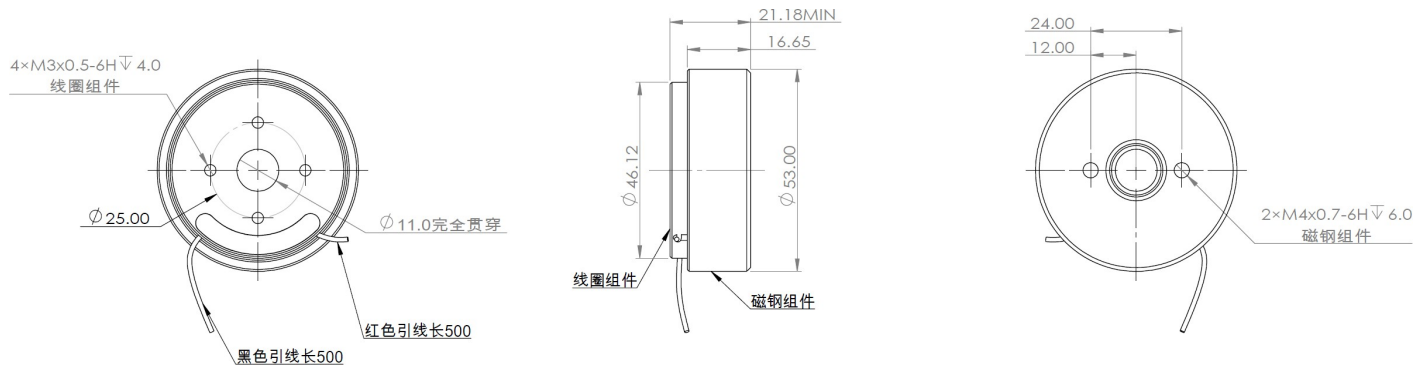
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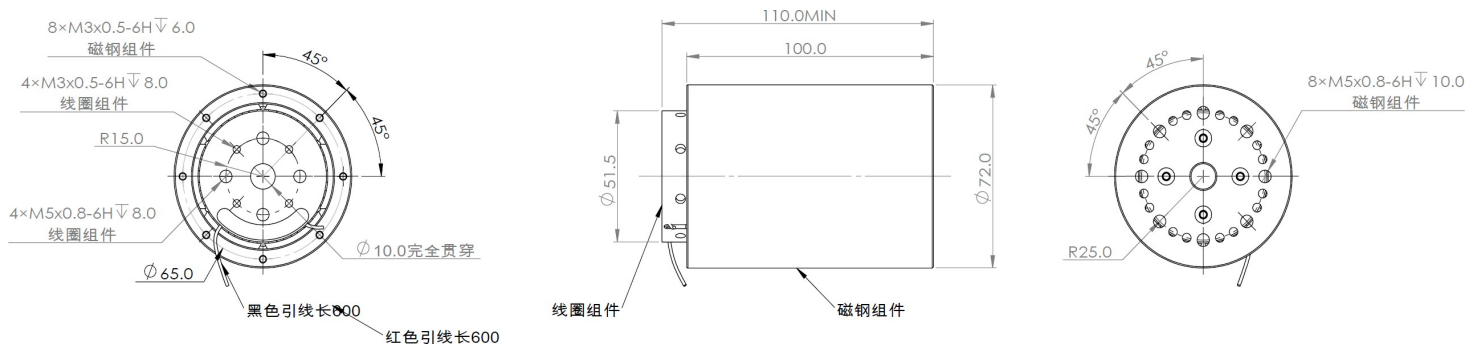
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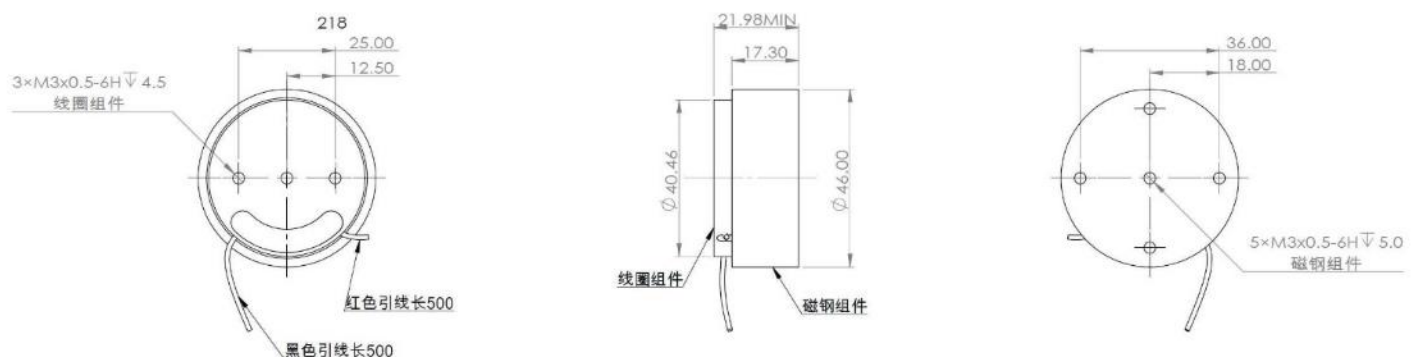
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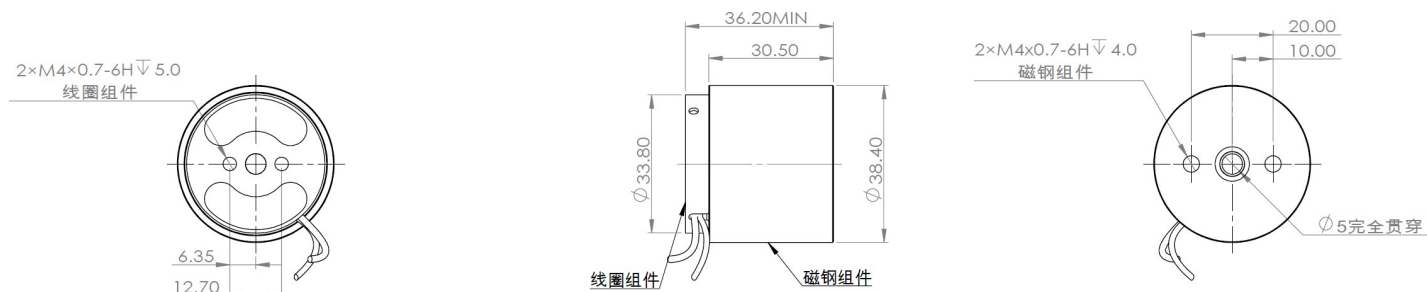
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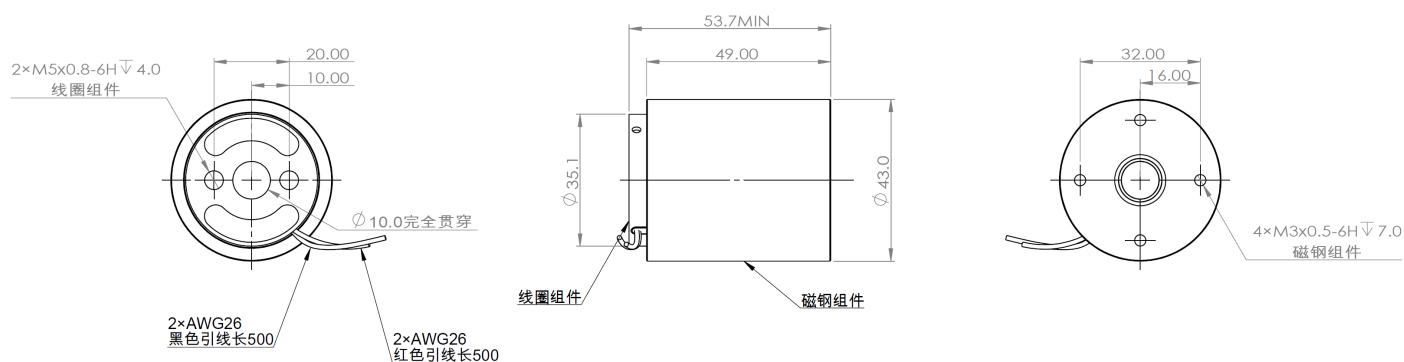
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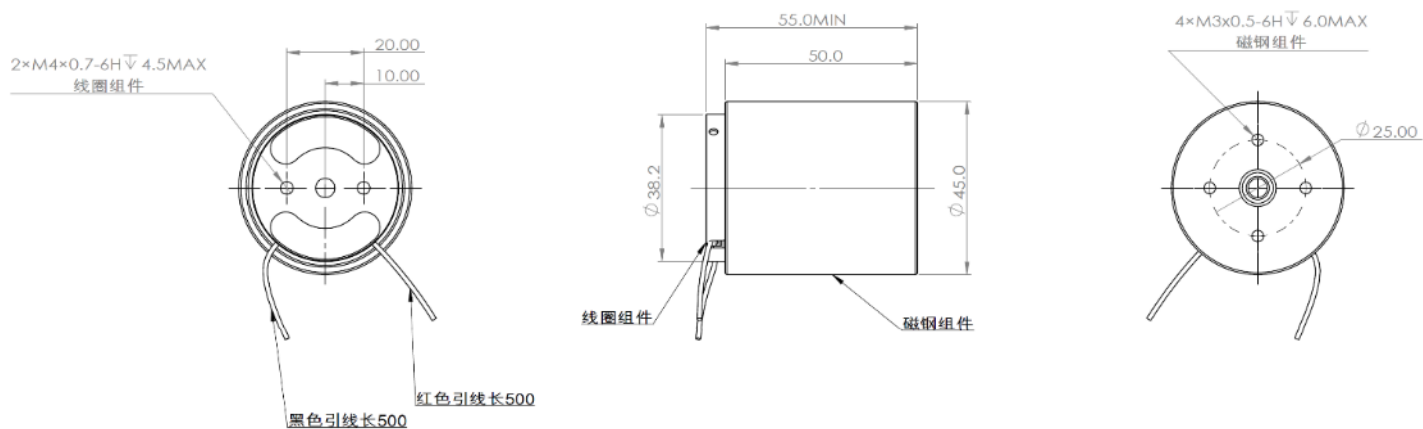
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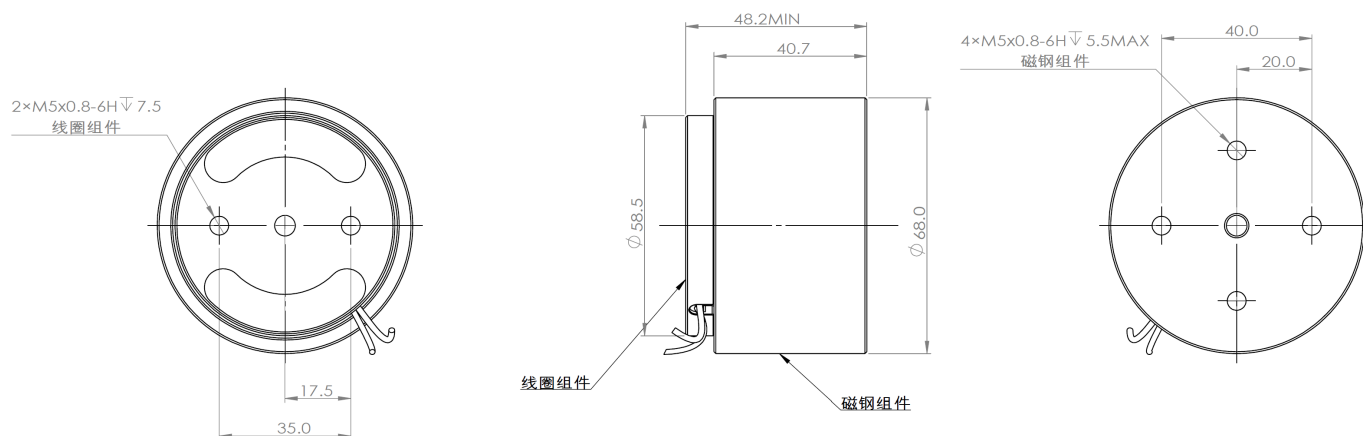
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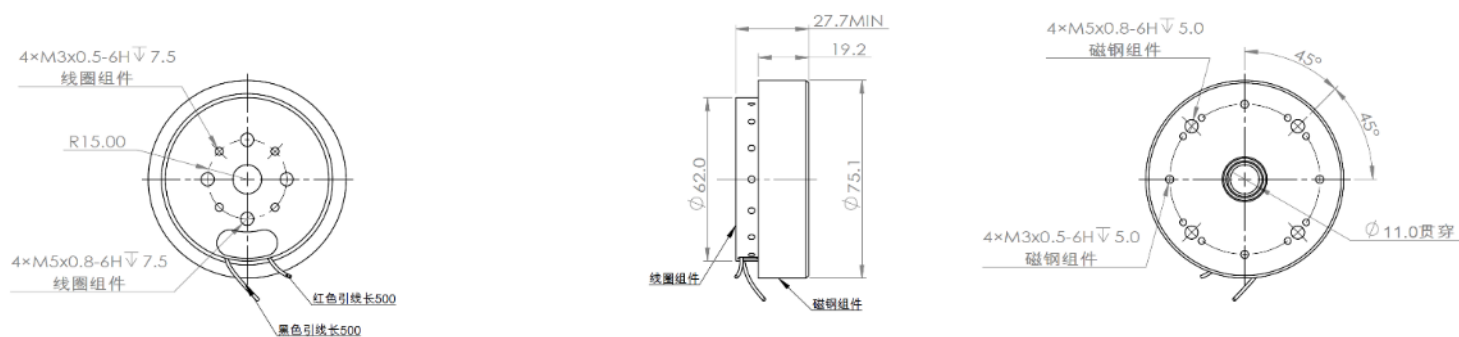
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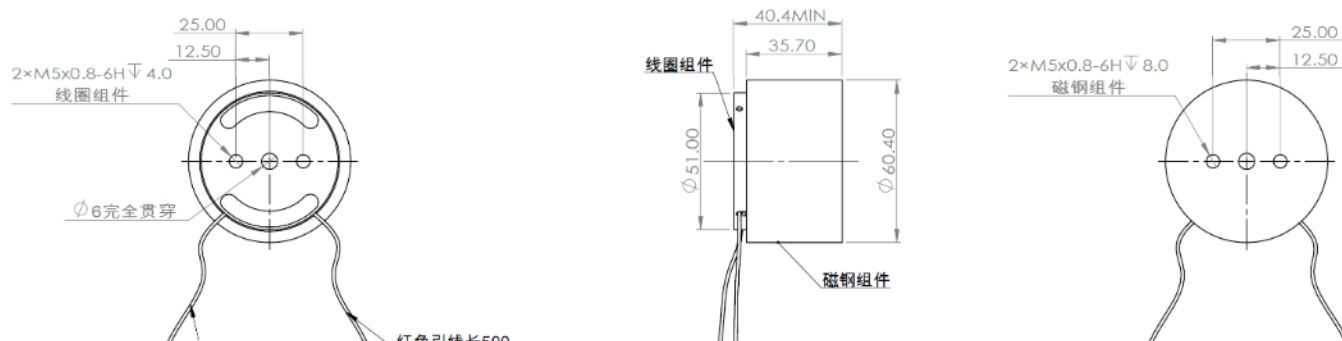
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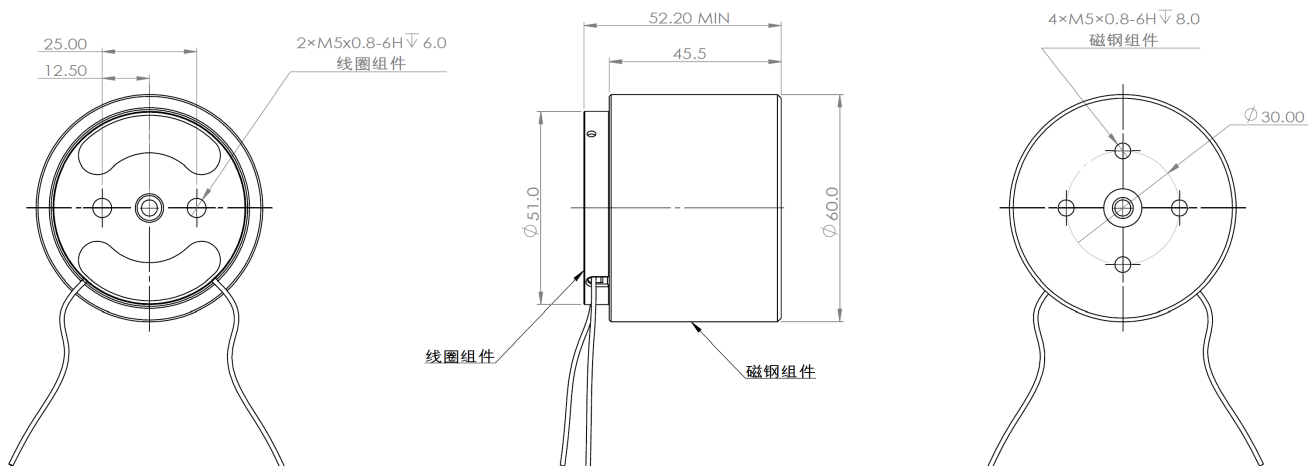
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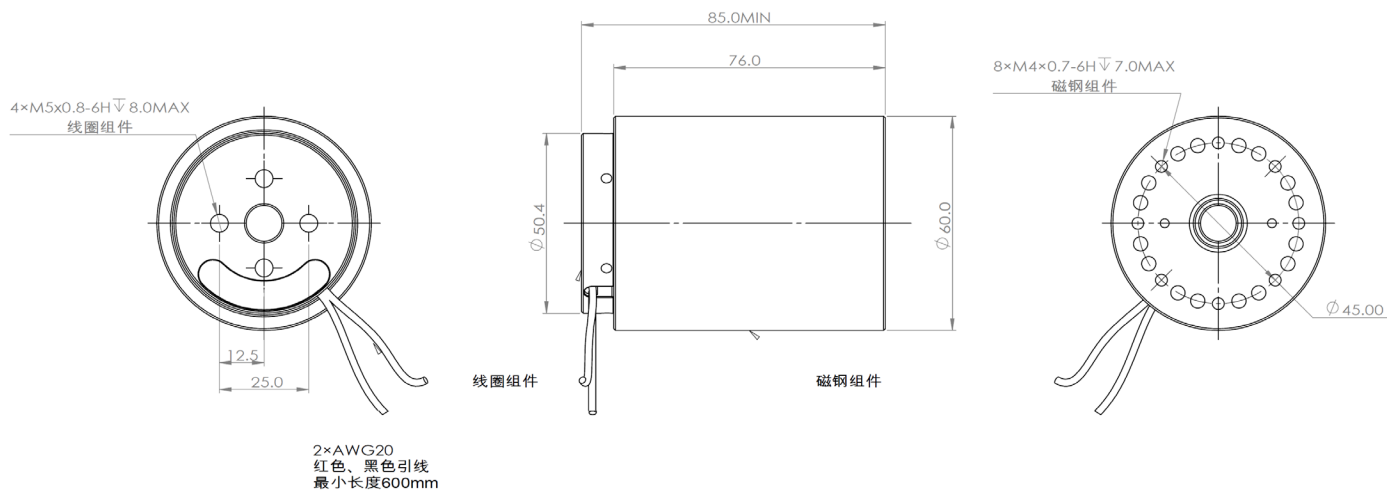
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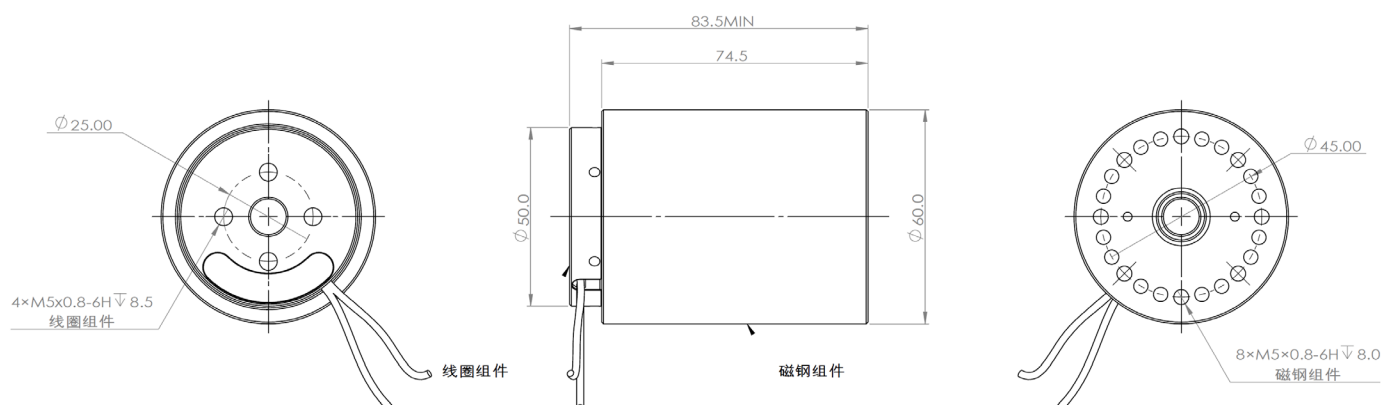
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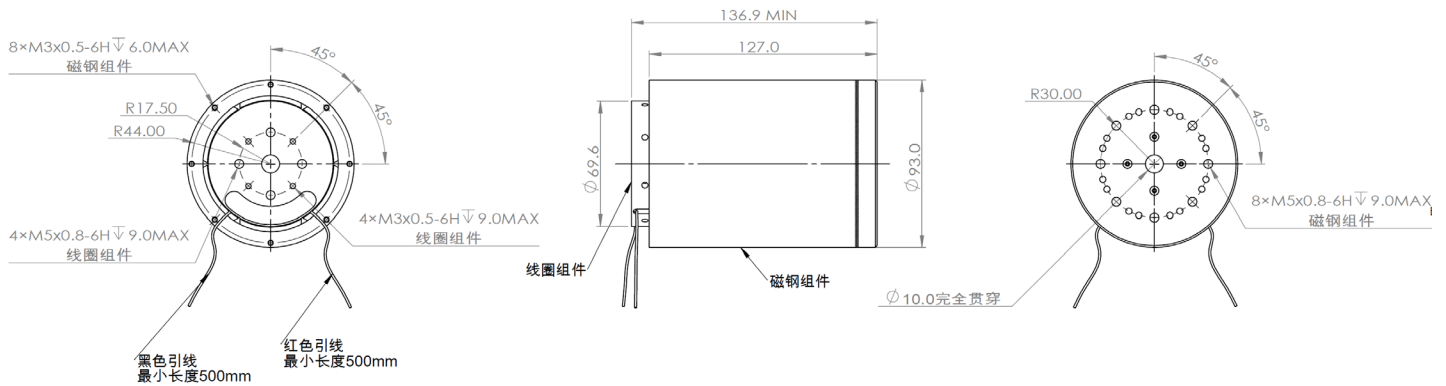
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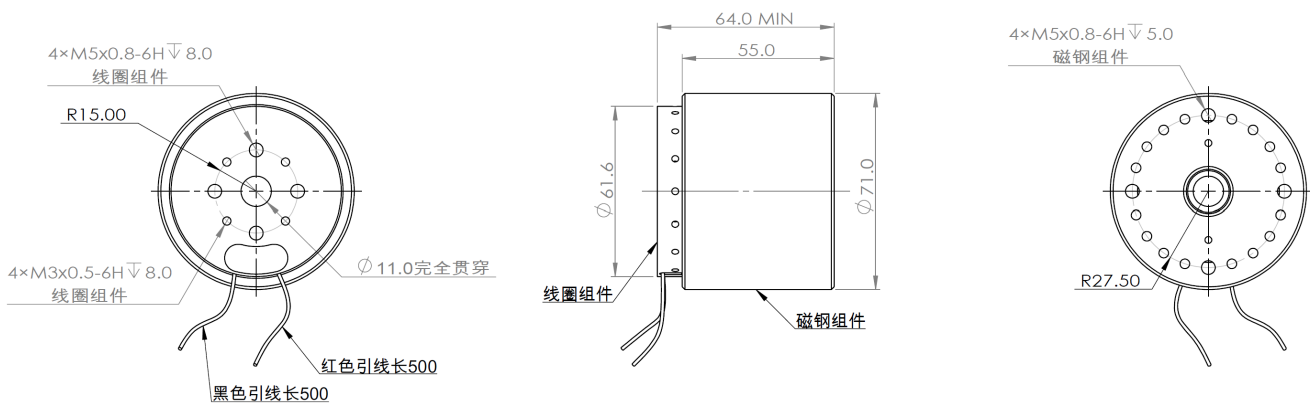
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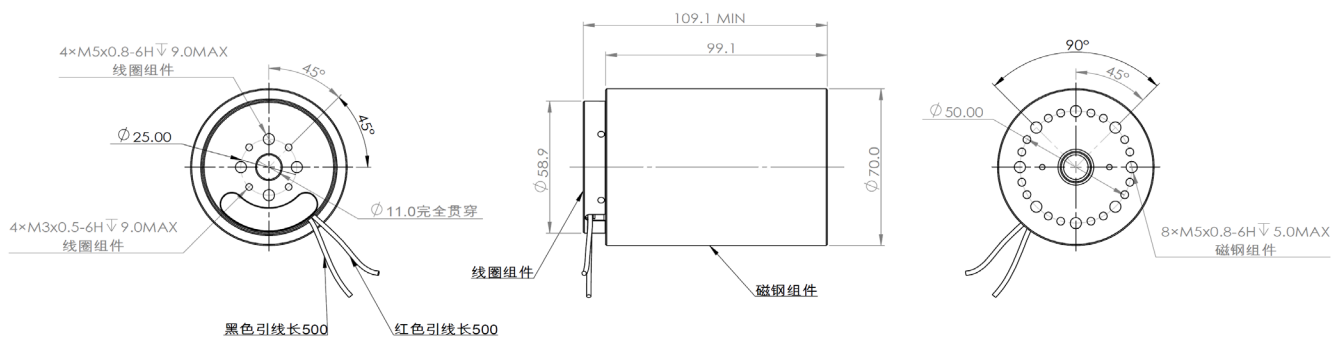
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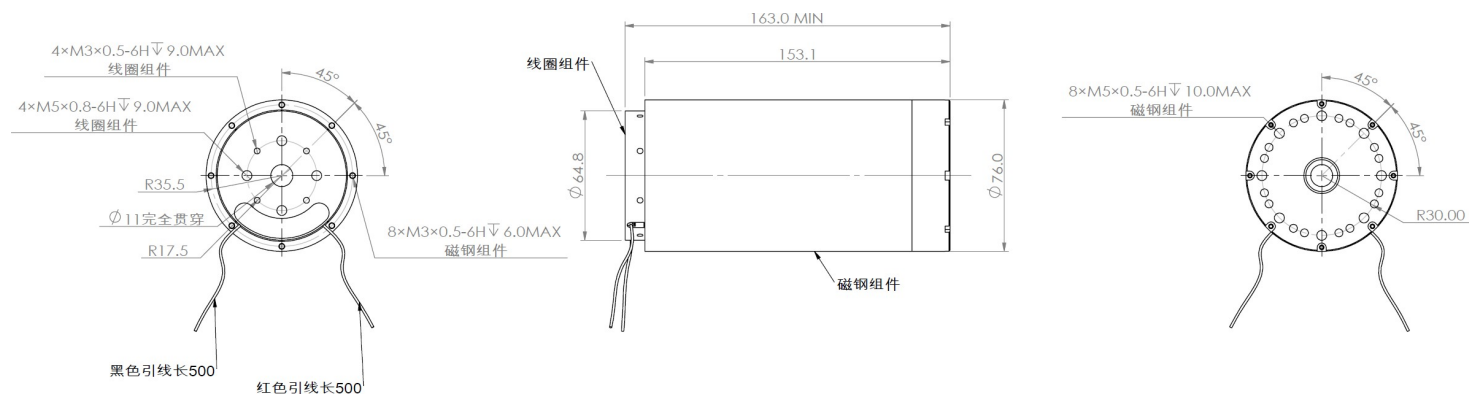
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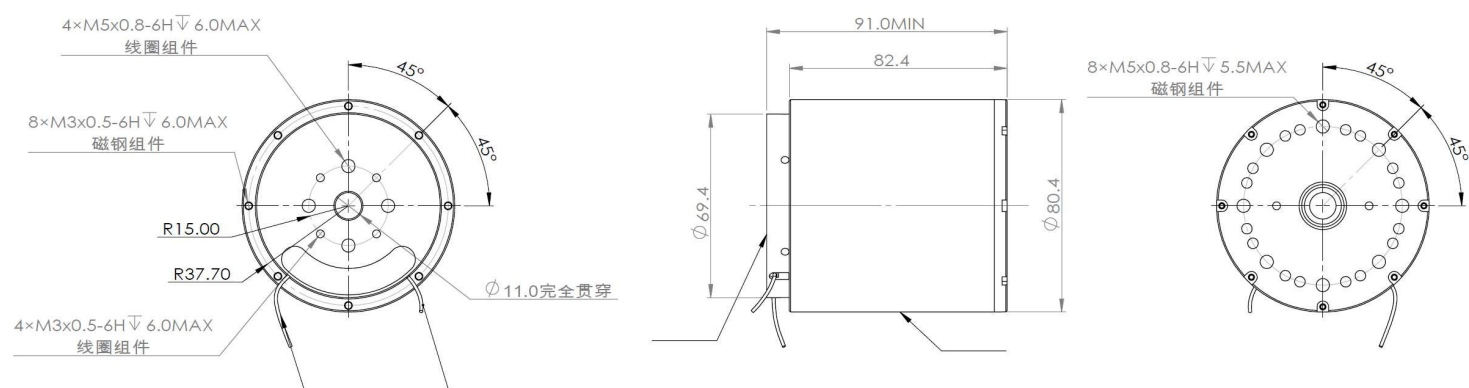
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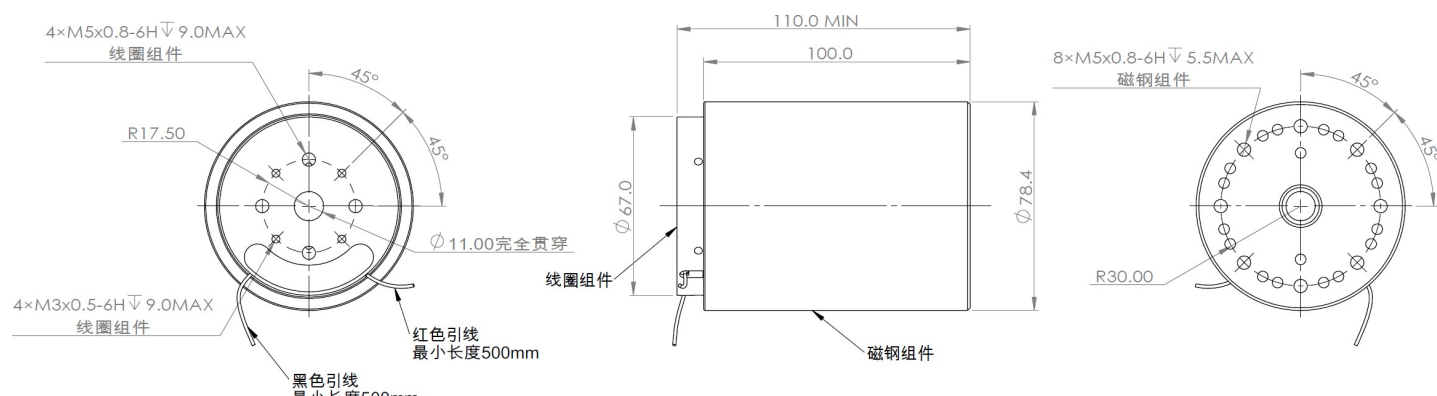
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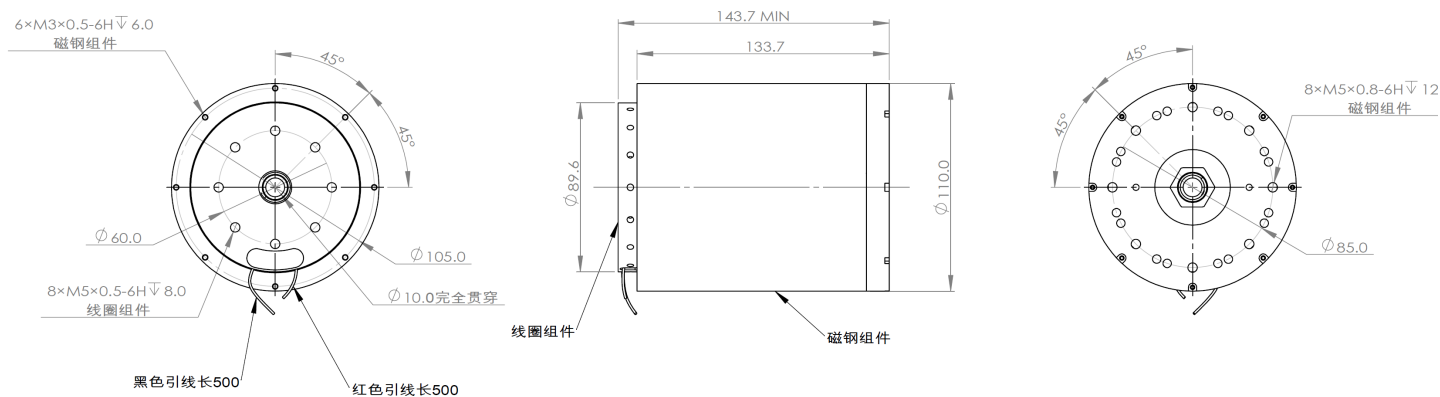
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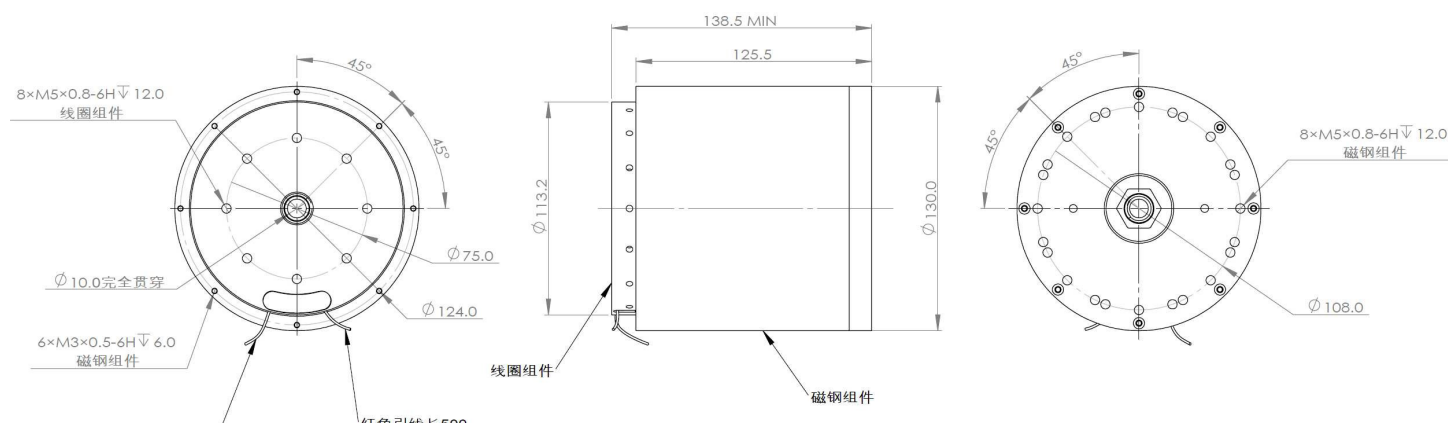
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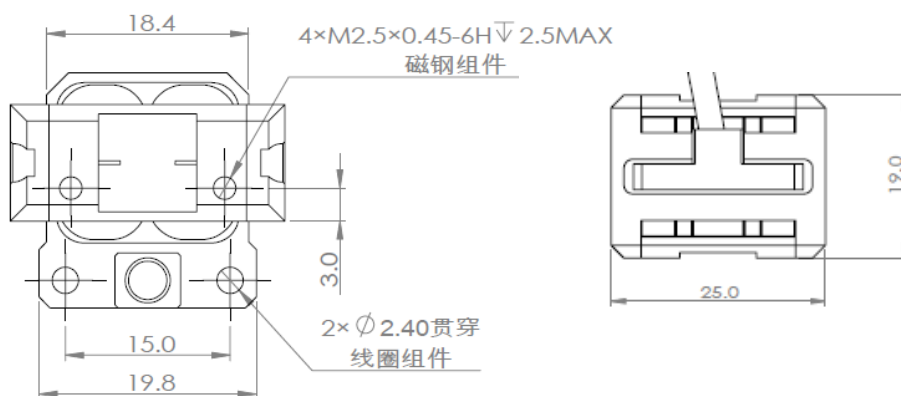
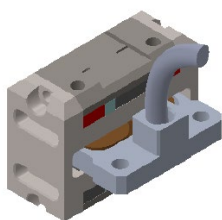
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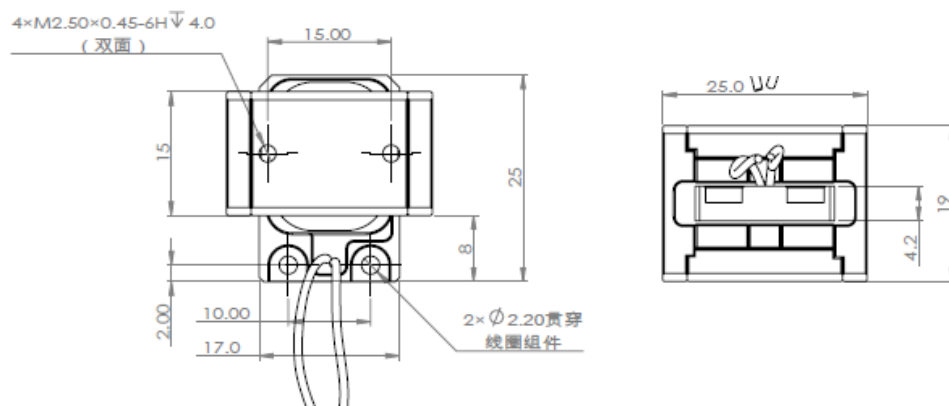
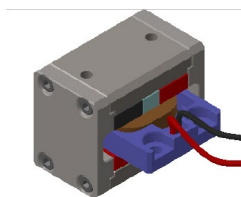
Model	Coil Resistance	Max. Terminal Voltage	Peak Current	Force Constant	Back EMF Constant	Inductance	Peak Force @ 150°C within 10Second	Continuous Stall Force @ 150°C	Motor Constant	Electrical time constant	Power at peak force	Stroke	Clearance of coil	Thermal resistance	Max coil temperature	Coil assembly mass	Core assembly mass	Size (L*W*H)
Symbol	R	Vp	Ip	Kf	Kb	L	Fp	Fc	Ka	Te	Pp	S	CL	θth	Tmax	WTc	WTf	L
Unit	ohm	V	A	N / A	V / m/s	mH	N	N	N / vW	ms	W	mm	mm	α/W	°C	g	g	mm
02-03	4.0	10.0	2.5	2.00	2.00	0.6	5.0	1.6	0.40	0.15	25.0	±1.5	0.4	25.5	150	5	25	25*19*21.4
05-03	4.2	6.8	1.6	3.40	3.40	0.7	5.4	2.8	1.66	0.15	11.0	±1.5	0.4	45.0	150	7	36	25*19*25
07-25	8.4	16.5	3.4	6.00	6.00	3.4	20.0	7.5	2.71	0.37	54.0	25.0	0.5	16.5	155	55	295	115*20*35
08-25	5.8	18.6	3.2	8.30	8.30	TBD	26.5	8.3	3.45		59.5	25.0	0.5	21.5	150	60	320	121.5*40*15
09-07	1.8	8.2	4.5	4.40	4.40	0.5	20.0	9.2	3.28	0.28	37.2	6.8	0.4	15.8	150	26	126	39*21.5*50
20-20	3.6	15.0	4.2	15.55	15.55		65.0	20.6	8.19		63.0	20.0	0.5	15.0	120	125	1050	87*38*78
21-12	4.8	23.1	4.8	13.10	13.10		62.8	20.9	5.98		110.0	12.5	0.5	8.9	120	72	640	63*36*77
30-06	5.6	26.6	4.8	18.60	18.60	2.2	88.5	29.5	7.86	0.39	127.0	6.0	0.4	8.9	150	75	675	57*36*86

Drawing: (mm)

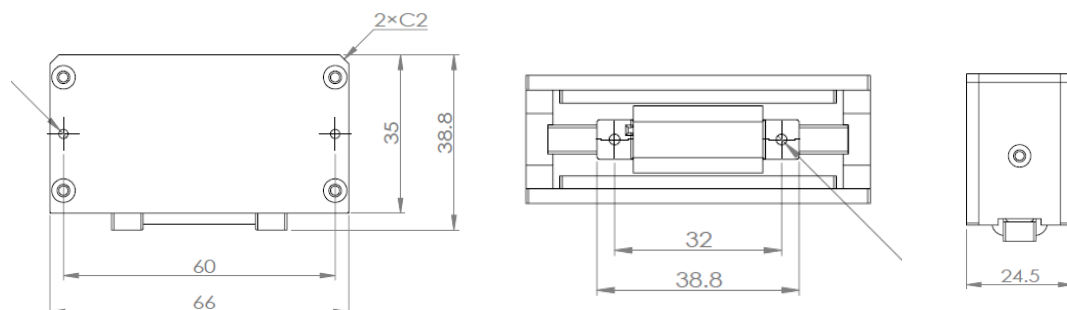
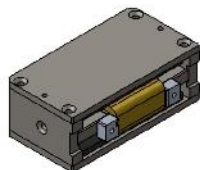
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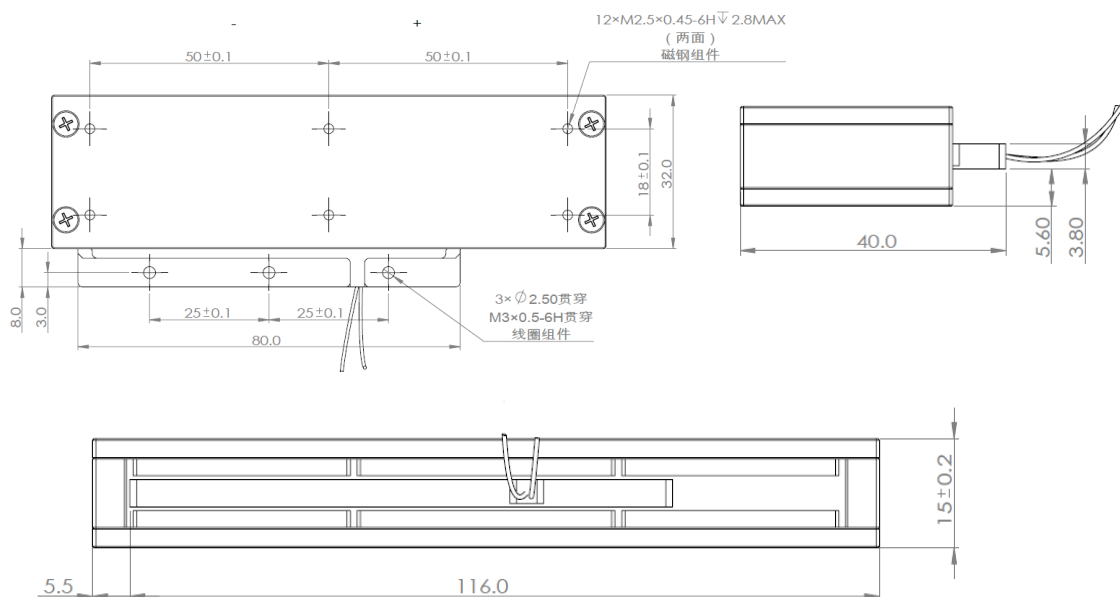
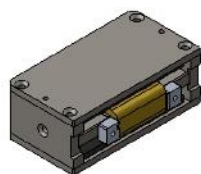
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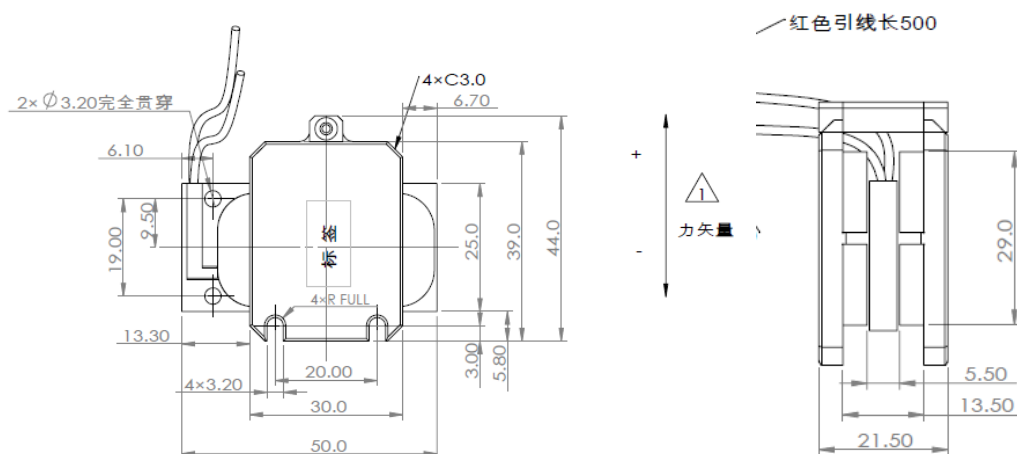
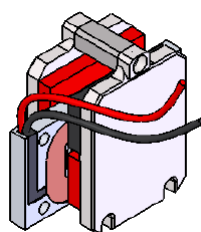
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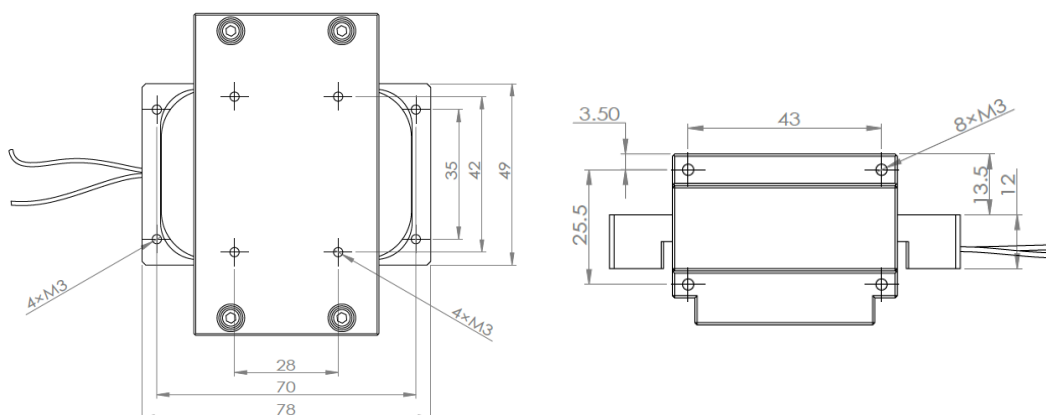
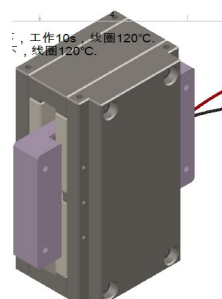
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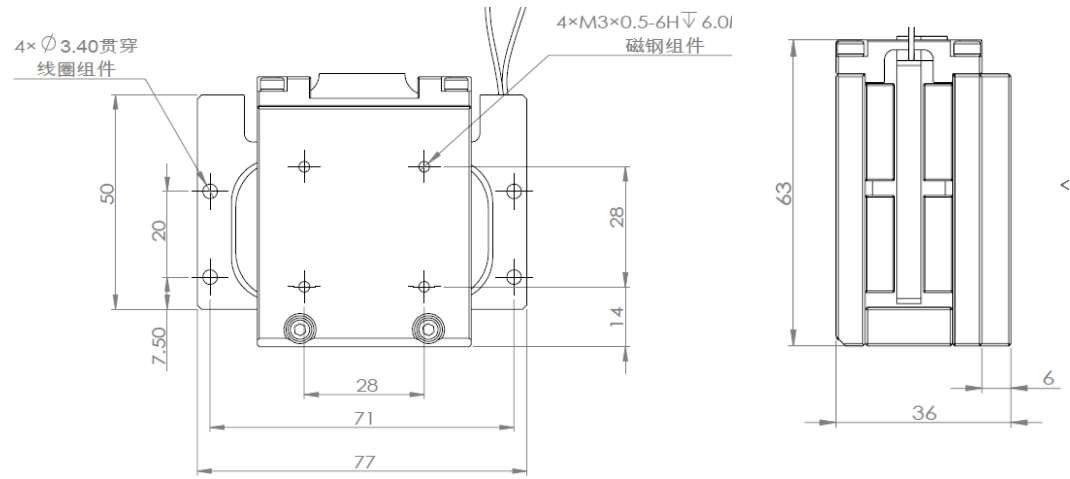
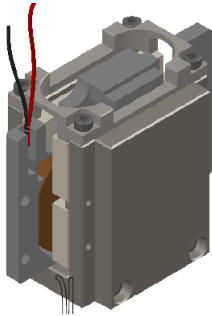
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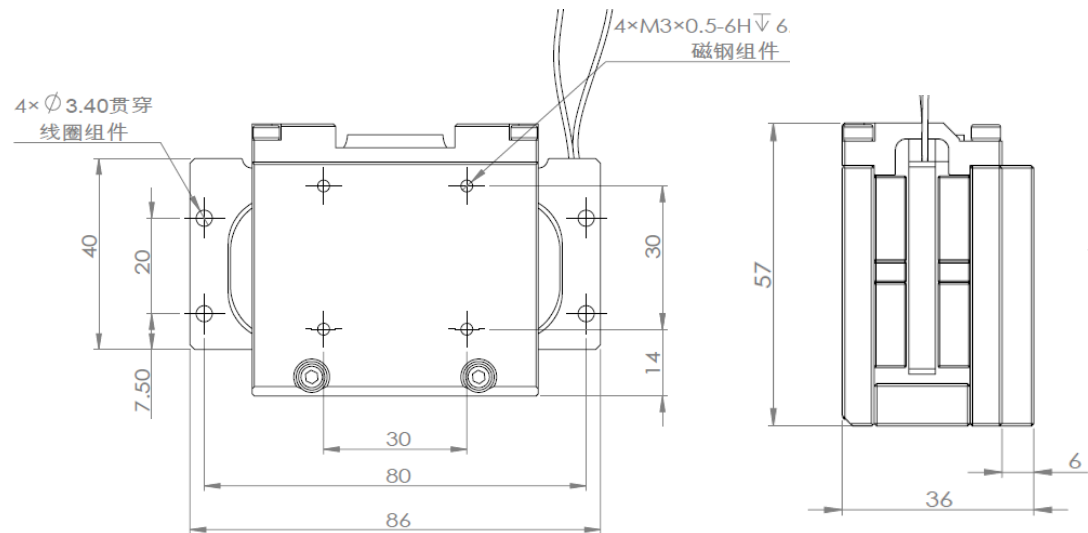
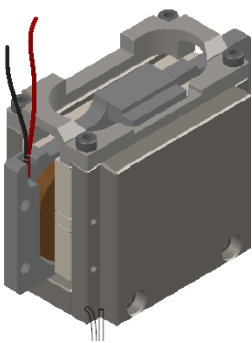
VCMP20-20



VCMP21-12



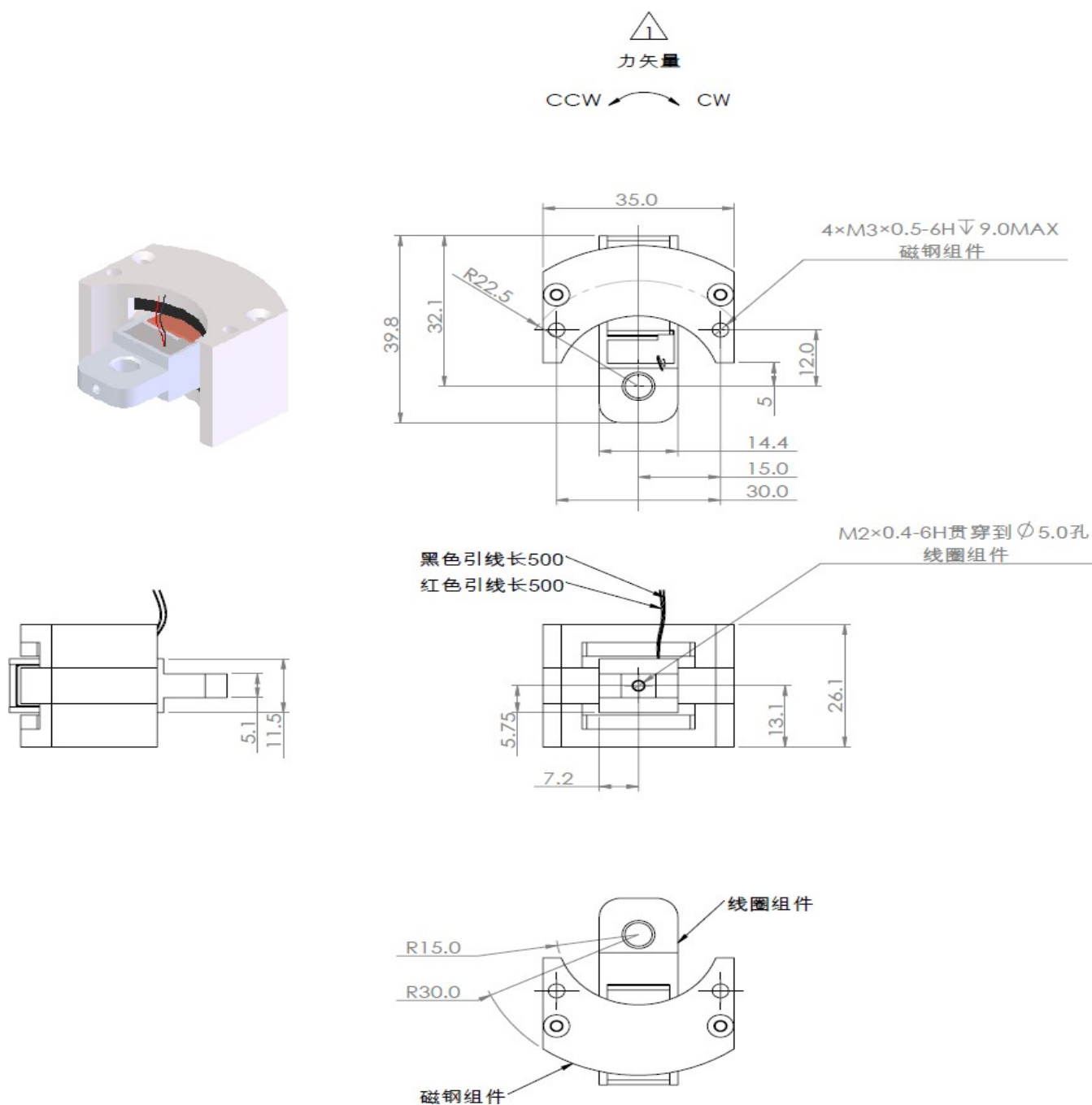
VCMP30-06



Electrical Specification:

Model	Coil Resistance	Max. Terminal Voltage	Peak Current	Force Constant	Back EMF Constant	Inductance	Peak Force @ 150°C within 10Second	Continuous Stall Force @ 150°C	Electrical time constant	Power at peak force	Stroke	Clearance of coil	Thermal resistance
Symbol	R	Vp	Ip	Kf	Kb	L	Fp	Fc	Te	Pp	S	CL	θth
Unit	ohm	V	A	N / A	V / m/s	mH	N	N	ms	W	mm	mm	α/W
RS08-26-00A	3.6	6.2	1.72	0.045	0.045	0.39	0.078	0.05	1.1	11.3	26°	0.5	27.6
RS08-32-00A	11.3	15.5	1.4	0.16	0.16	2	0.22	0.12	0.75	21.3	32°	0.5	18.2

RS08-26-00A



RS08-32-00A

