



鑫宝达电机
SINBAD MOTOR



高端空心杯电机专业制造商

诚信·创新·拼搏·共赢

产品手册 SINBAD MOTOR
PRODUCT MANUAL

空心杯直流无刷电机

Coreless Brushless DC Motors

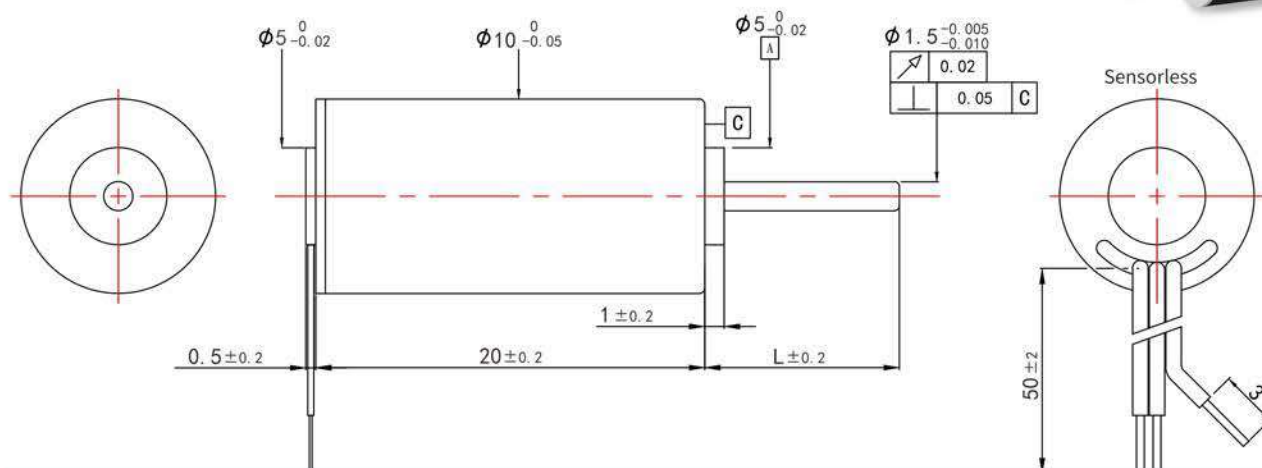


深圳市鑫宝达电机有限公司

SHENZHEN SINBAD MOTOR CO., LTD

Φ10*L20mm, 无刷直流电机, 3-20W

Φ10*L20mm, Brushless DC Motor, 3-20W



电机参数 Motor Data				1020	1020	1020
电机型号 Motor Model				1020	1020	1020
额定电压参数值 Value at Rated voltage						
额定点 At Nominal						
1	额定电压	Nominal voltage	V/DC	7	9	12
2	额定转速	Nominal speed	rpm	79640	40725	39150
3	额定电流	Nominal current	A	1.64	0.44	0.36
4	额定转矩	Nominal torque	mNm	0.92	0.42	0.51
空载点 Free Load						
5	空载转速	No-load speed	rpm	88000	45000	45000
6	空载电流	No-load current	mA	400	200	140
最大效率点 At Max. Efficiency						
7	最大效率	Max. efficiency	%	68.5	53.0	52.0
8	转速	Speed	rpm	75240	35325	35100
9	电流	Current	A	2.300	0.738	0.505
10	转矩	Torque	mNm	1.4	1.0	0.86
最大输出功率点 At Max. Output power						
11	最大功率	Max. output power	W	22.2	5.2	4.6
12	转速	Speed	rpm	44000	22500	22500
13	电流	Current	A	7.0	1.5	1.0
14	转矩	Torque	mNm	4.8	2.2	1.95
堵转点 At Stall						
15	堵转电流	Stall current	A	13.50	2.70	1.80
16	堵转转矩	Stall torque	mNm	9.7	4.4	3.90
电机常数 Motor Constants						
17	电机阻抗	Terminal resistance	Ω	0.52	3.33	6.67
18	电机感抗	Terminal inductance	mH	0.150	0.950	1.650
19	转矩常数	Torque constant	mNm/A	0.74	1.77	2.35
20	转速常数	Speed constant	rpm/V	12571	5000	3750
21	转速/转矩常数	Speed/torque constant	rpm/mNm	9114	10179	11543
22	机械时间常数	Mechanical time constant	ms	6.08	6.80	7.71
23	转子惯量	Rotor inertia	gcm ²	0.064	0.064	0.064
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	8.5		
27	噪音	Typical noise level	dB	≤50		

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

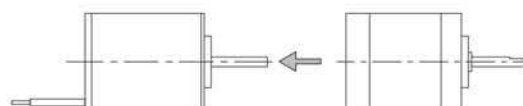
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

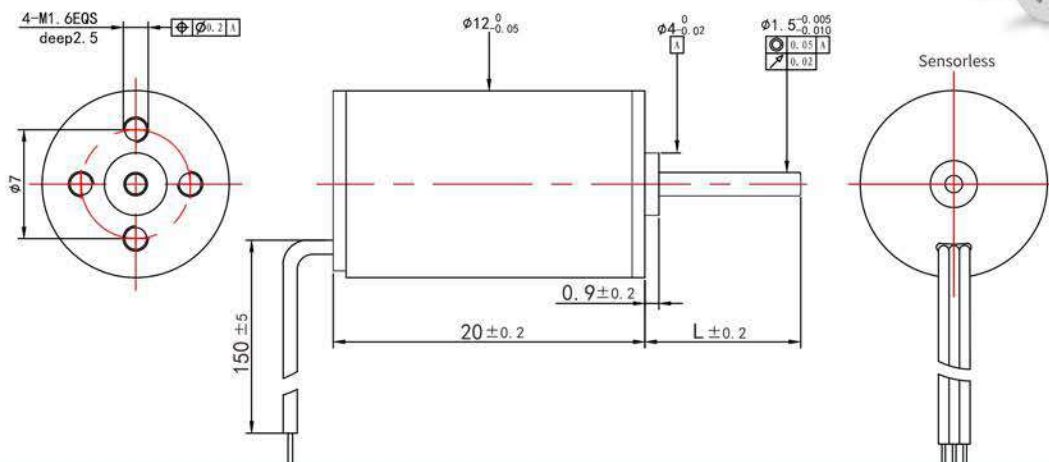
适配部件 Optional Parts:

·行星轮减速箱 Planetary gearbox



Φ12*L20mm, 无刷直流电机, 1-1.5W

Φ12*L20mm, Brushless DC Motor, 1-1.5W



电机参数 Motor Data

电机型号 Motor Model				1220	1220	1220
额定电压参数值 Value at Rated voltage						
额定点 At Nominal						
1	额定电压	Nominal voltage	V/DC	5	7.4	12
2	额定转速	Nominal speed	rpm	21250	21080	21420
3	额定电流	Nominal current	A	0.28	0.17	0.11
4	额定转矩	Nominal torque	mNm	0.32	0.33	0.34
空载点 Free Load						
5	空载转速	No-load speed	rpm	25000	24800	25200
6	空载电流	No-load current	mA	100	50	30
最大效率点 At Max. Efficiency						
7	最大效率	Max. efficiency	%	52.2	57.8	59.1
8	转速	Speed	rpm	17875	17732	20412
9	电流	Current	A	0.442	0.284	0.131
10	转矩	Torque	mNm	0.6	0.6	0.43
最大输出功率点 At Max. Output power						
11	最大功率	Max. output power	W	1.4	1.4	1.5
12	转速	Speed	rpm	12500	12400	12600
13	电流	Current	A	0.7	0.5	0.3
14	转矩	Torque	mNm	1.1	1.1	1.14
堵转点 At Stall						
15	堵转电流	Stall current	A	1.30	0.87	0.56
16	堵转转矩	Stall torque	mNm	2.1	2.2	2.28
电机常数 Motor Constants						
17	电机阻抗	Terminal resistance	Ω	3.85	8.51	21.43
18	电机感抗	Terminal inductance	mH	0.188	0.258	0.566
19	转矩常数	Torque constant	mNm/A	1.76	2.69	4.30
20	转速常数	Speed constant	rpm/V	5000	3351	2100
21	转速/转矩常数	Speed/torque constant	rpm/mNm	11817	11261	11048
22	机械时间常数	Mechanical time constant	ms	12.67	10.26	10.07
23	转子惯量	Rotor inertia	gcm ²	0.10	0.09	0.09
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	9.5		
27	噪音	Typical noise level	dB	≤50		

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

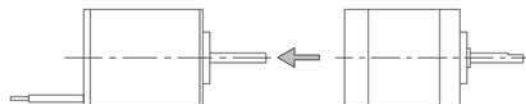
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

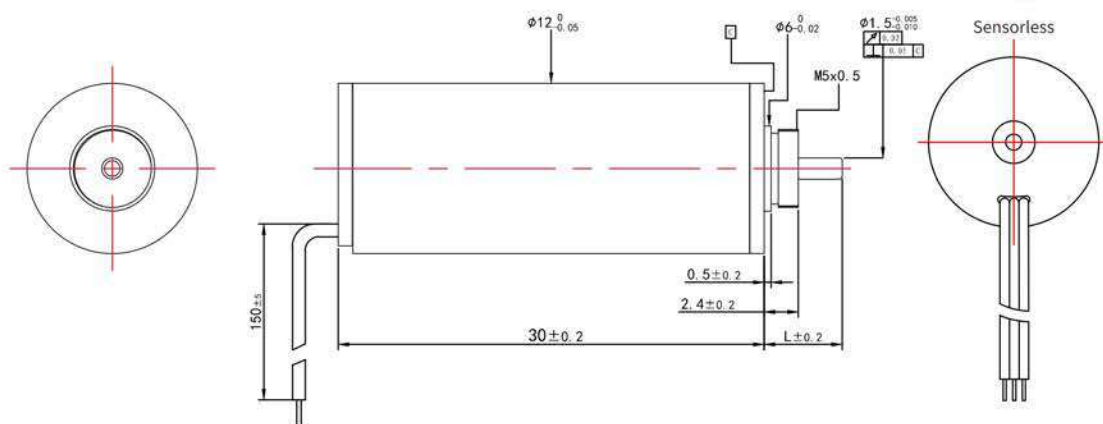
适配部件 Optional Parts:

·行星轮减速箱 Planetary gearbox



Φ12*L30mm, 无刷直流电机, 3-6W

Φ12*L30mm, Brushless DC Motor, 3-6W



电机参数 Motor Data

电机型号 Motor Model				1230	1230	1230
额定电压参数值 Value at Rated voltage						
额定点 At Nominal						
1	额定电压	Nominal voltage	V/DC	12	18	24
2	额定转速	Nominal speed	rpm	13685	14025	13600
3	额定电流	Nominal current	A	0.45	0.32	0.24
4	额定转矩	Nominal torque	mNm	2.40	2.38	2.43
空载点 Free Load						
5	空载转速	No-load speed	rpm	16100	16500	16000
6	空载电流	No-load current	mA	100	80	60
最大效率点 At Max. Efficiency						
7	最大效率	Max. efficiency	%	63.6	61.1	61.0
8	转速	Speed	rpm	13363	13530	13120
9	电流	Current	A	0.498	0.368	0.274
10	转矩	Torque	mNm	2.7	2.86	2.92
最大输出功率点 At Max. Output power						
11	最大功率	Max. output power	W	6.7	6.9	6.8
12	转速	Speed	rpm	8050	8250	8000
13	电流	Current	A	1.3	0.9	0.7
14	转矩	Torque	mNm	8.0	7.94	8.11
堵转点 At Stall						
15	堵转电流	Stall current	A	2.44	1.68	1.25
16	堵转转矩	Stall torque	mNm	16.0	15.87	16.23
电机常数 Motor Constants						
17	电机阻抗	Terminal resistance	Ω	4.92	10.71	19.20
18	电机感抗	Terminal inductance	mH	0.155	0.350	0.620
19	转矩常数	Torque constant	mNm/A	6.83	9.92	13.64
20	转速常数	Speed constant	rpm/V	1342	917	667
21	转速/转矩常数	Speed/torque constant	rpm/mNm	1008	1039	986
22	机械时间常数	Mechanical time constant	ms	3.60	3.71	3.52
23	转子惯量	Rotor inertia	gcm ²	0.34	0.34	0.34
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	14		
27	噪音	Typical noise level	dB	≤45		

电机线序(Motor wire sequence):

·无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

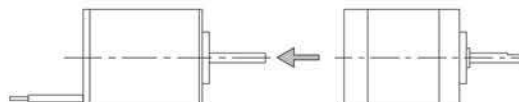
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

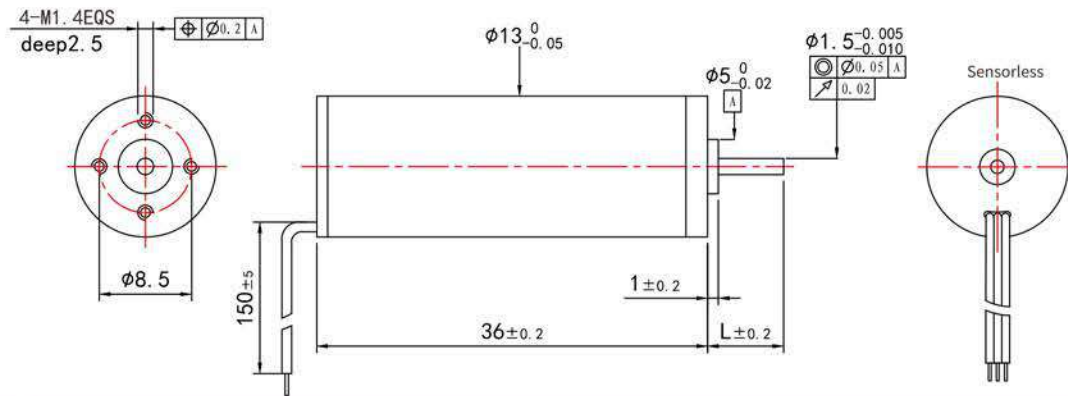
适配部件 Optional Parts:

·行星轮减速箱 Planetary gearbox



Φ13*L36mm, 无刷直流电机, 6-14W

Φ13*L36mm, Brushless DC Motor, 6-14W



电机参数 Motor Data				
电机型号 Motor Model		1336	1336	1336
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	9
2	额定转速	Nominal speed	rpm	40920
3	额定电流	Nominal current	A	1.05
4	额定转矩	Nominal torque	mNm	1.42
空载点 Free Load				
5	空载转速	No-load speed	rpm	46500
6	空载电流	No-load current	mA	250
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	65.6
8	转速	Speed	rpm	39060
9	电流	Current	A	1.314
10	转矩	Torque	mNm	1.9
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	14.4
12	转速	Speed	rpm	23250
13	电流	Current	A	3.6
14	转矩	Torque	mNm	5.9
堵转点 At Stall				
15	堵转电流	Stall current	A	6.90
16	堵转转矩	Stall torque	mNm	11.8
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	1.30
18	电机感抗	Terminal inductance	mH	0.028
19	转矩常数	Torque constant	mNm/A	1.78
20	转速常数	Speed constant	rpm/V	5167
21	转数/转矩常数	Speed/torque constant	rpm/mNm	3926
22	机械时间常数	Mechanical time constant	ms	4.33
23	转子惯量	Rotor inertia	gcm ²	0.11
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	21
27	噪音	Typical noise level	dB	≤55

电机线序(Motor wire sequence):

·无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

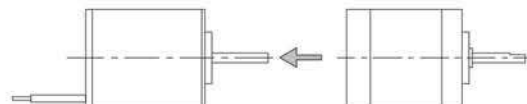
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

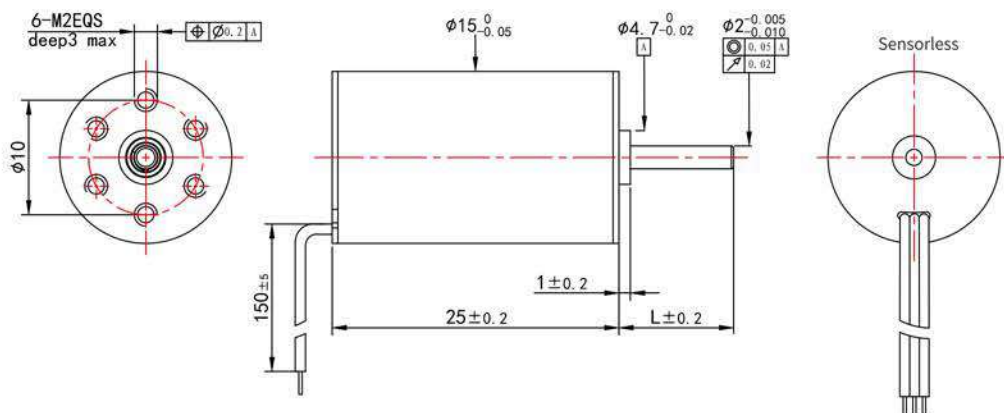
适配部件 Optional Parts:

·行星轮减速箱 Planetary gearbox



Φ15*L25mm, 无刷直流电机, 25-65W

Φ15*L25mm, Brushless DC Motor, 25-65W



电机参数 Motor Data

电机型号 Motor Model				1525	1525	1525	1525
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	9	12	18	24
2	额定转速	Nominal speed	rpm	48870	60450	57468	54300
3	额定电流	Nominal current	A	2.71	1.86	1.68	1.15
4	额定转矩	Nominal torque	mNm	3.49	2.72	3.71	3.47
空载点 Free Load							
5	空载转速	No-load speed	rpm	54000	65000	63500	60000
6	空载电流	No-load current	mA	480	300	280	220
最大效率点 At Max. Efficiency							
7	最大效率	Max. efficiency	%	73.7	78.3	74.5	72.5
8	转速	Speed	rpm	47250	58175	55880	52200
9	电流	Current	A	3.420	2.642	2.046	1.491
10	转矩	Torque	mNm	4.6	4.07	4.69	4.75
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	51.9	66.0	65.0	57.4
12	转速	Speed	rpm	27000	32500	31750	30000
13	电流	Current	A	12.2	11.5	7.6	5.1
14	转矩	Torque	mNm	18.3	19.40	19.55	18.27
堵转点 At Stall							
15	堵转电流	Stall current	A	24.00	22.60	15.00	10.00
16	堵转转矩	Stall torque	mNm	36.7	38.79	39.10	36.54
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	0.38	0.53	1.20	2.40
18	电机感抗	Terminal inductance	mH	0.011	0.017	0.038	0.074
19	转矩常数	Torque constant	mNm/A	1.56	1.74	2.66	3.74
20	转速常数	Speed constant	rpm/V	6000	5417	3528	2500
21	转数/转矩常数	Speed/torque constant	rpm/mNm	1472.0	1675.6	1624.0	1642.3
22	机械时间常数	Mechanical time constant	ms	3.15	3.59	3.48	3.52
23	转子惯量	Rotor inertia	gcm ²	0.20	0.20	0.20	0.20
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	27			
27	噪音	Typical noise level	dB	≤55			

电机线序(Motor wire sequence):

·无传感器 (Without sensor) :1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

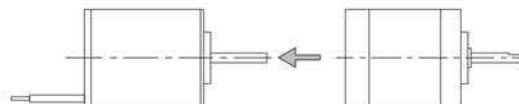
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

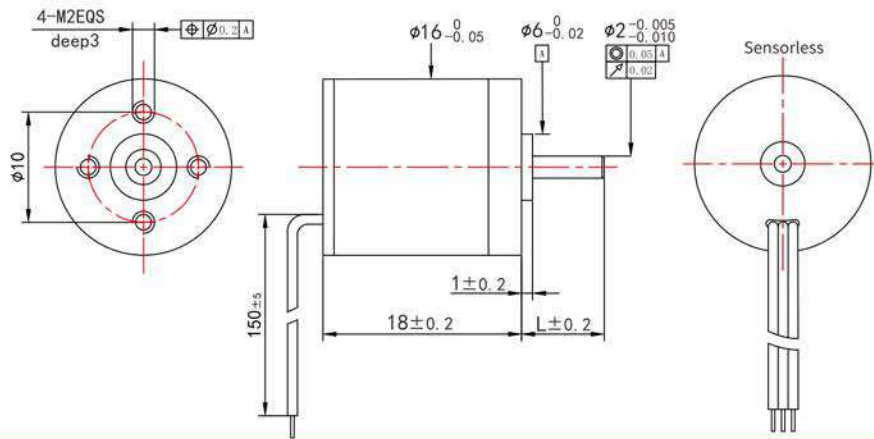
适配部件 Optional Parts:

·行星轮减速箱 Planetary gearbox



Φ16*L18mm, 无刷直流电机, 1-2W

Φ16*L18mm, Brushless DC Motor, 1-2W



电机参数 Motor Data				
电机型号 Motor Model				
额定电压参数值 Value at Rated voltage		1618	1618	1618
额定点 At Nominal				
1 额定电压 Nominal voltage	V/DC	9	12	18
2 额定转速 Nominal speed	rpm	11550	8624	11935
3 额定电流 Nominal current	A	0.28	0.12	0.14
4 额定转矩 Nominal torque	mNm	1.11	0.90	1.13
空载点 Free Load				
5 空载转速 No-load speed	rpm	15000	11200	15500
6 空载电流 No-load current	mA	70	30	25
最大效率点 At Max. Efficiency				
7 最大效率 Max. efficiency	%	53.7	54.6	57.0
8 转速 Speed	rpm	11850	8904	12478
9 电流 Current	A	0.261	0.114	0.122
10 转矩 Torque	mNm	1.0	0.80	0.96
最大输出功率点 At Max. Output power				
11 最大功率 Max. output power	W	1.9	1.1	2.0
12 转速 Speed	rpm	7500	5600	7750
13 电流 Current	A	0.5	0.2	0.3
14 转矩 Torque	mNm	2.4	1.95	2.45
堵转点 At Stall				
15 堵转电流 Stall current	A	0.98	0.44	0.50
16 堵转转矩 Stall torque	mNm	4.8	3.91	4.90
电机常数 Motor Constants				
17 电机阻抗 Terminal resistance	Ω	9.18	27.27	36.00
18 电机感抗 Terminal inductance	mH	0.019	0.045	0.076
19 转矩常数 Torque constant	mNm/A	5.32	9.53	10.42
20 转速常数 Speed constant	rpm/V	1666.7	933.3	861.1
21 转数/转矩常数 Speed/torque constant	rpm/mNm	3098	2865	3164
22 机械时间常数 Mechanical time constant	ms	3.67	3.40	3.75
23 转子惯量 Rotor inertia	gcm ²	0.11	0.11	0.11
24 极对数 Number of pole pairs		1		
25 相数 Number of phase		3		
26 重量 Weight of motor	g	18		
27 噪音 Typical noise level	dB	≤50		

电机线序(Motor wire sequence):

·无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

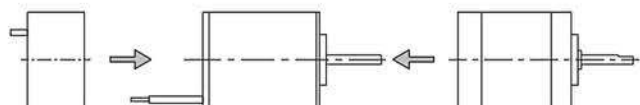
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

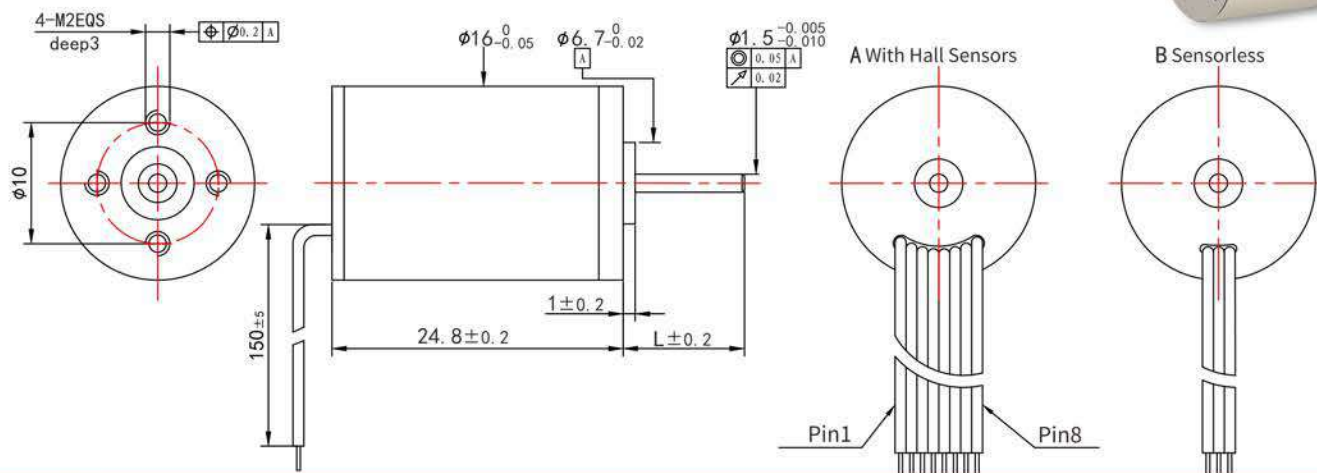
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ16*L24mm, 无刷直流电机, 1-3W

Φ16*L24mm, Brushless DC Motor, 1-3W



电机参数 Motor Data				1624	1624	1624
电机型号 Motor Model				1624	1624	1624
额定电压参数值 Value at Rated voltage						
额定点 At Nominal						
1	额定电压	Nominal voltage	V/DC	12	18	24
2	额定转速	Nominal speed	rpm	11440	7900	9875
3	额定电流	Nominal current	A	0.26	0.14	0.13
4	额定转矩	Nominal torque	mNm	1.54	1.78	1.69
空载点 Free Load						
5	空载转速	No-load speed	rpm	14300	10000	12500
6	空载电流	No-load current	mA	60	34	32
最大效率点 At Max. Efficiency						
7	最大效率	Max. efficiency	%	58.4	56.8	55.8
8	转速	Speed	rpm	11583	8000	10000
9	电流	Current	A	0.254	0.139	0.126
10	转矩	Torque	mNm	1.5	1.70	1.61
最大输出功率点 At Max. Output power						
11	最大功率	Max. output power	W	2.9	2.2	2.6
12	转速	Speed	rpm	7150	5000	6250
13	电流	Current	A	0.6	0.3	0.3
14	转矩	Torque	mNm	3.9	4.25	4.02
堵转点 At Stall						
15	堵转电流	Stall current	A	1.08	0.56	0.50
16	堵转转矩	Stall torque	mNm	7.7	8.49	8.03
电机常数 Motor Constants						
17	电机阻抗	Terminal resistance	Ω	11.11	32.14	48.00
18	电机感抗	Terminal inductance	mH	0.587	1.758	2.510
19	转矩常数	Torque constant	mNm/A	7.57	16.15	17.16
20	转速常数	Speed constant	rpm/V	1192	556	521
21	转矩/转速常数	Speed/torque constant	rpm/mNm	1852.4	1177.5	1556.4
22	机械时间常数	Mechanical time constant	ms	7.03	4.47	5.91
23	转子惯量	Rotor inertia	gcm ²	0.36	0.36	0.36
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	25		
27	噪音	Typical noise level	dB	≤45		

电机线序(Motor wire sequence):

·无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

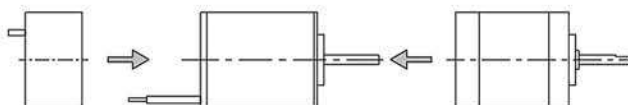
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

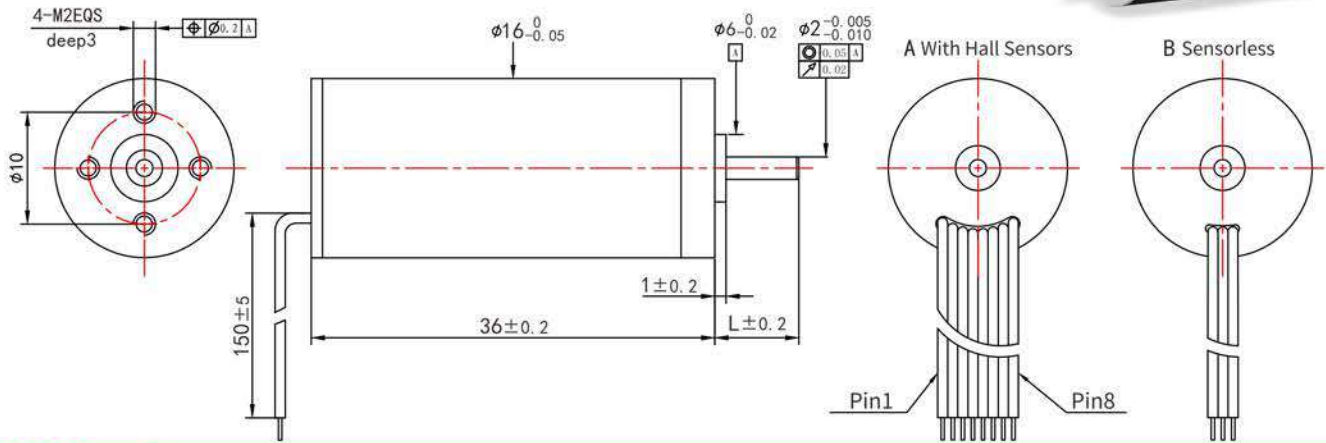
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ16*L36mm, 无刷直流电机, 7-18W

Φ16*L36mm, Brushless DC Motor, 7-18W



电机参数 Motor Data				
电机型号 Motor Model		1636	1636	1636
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	9
2	额定转速	Nominal speed	rpm	15355
3	额定电流	Nominal current	A	1.51
4	额定转矩	Nominal torque	mNm	6.39
空载点 Free Load				
5	空载转速	No-load speed	rpm	18500
6	空载电流	No-load current	mA	180
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	72.2
8	转速	Speed	rpm	16095
9	电流	Current	A	1.197
10	转矩	Torque	mNm	4.6
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	17.2
12	转速	Speed	rpm	9250
13	电流	Current	A	4.1
14	转矩	Torque	mNm	17.8
堵转点 At Stall				
15	堵转电流	Stall current	A	8.00
16	堵转转矩	Stall torque	mNm	35.5
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	1.13
18	电机感抗	Terminal inductance	mH	0.07
19	转矩常数	Torque constant	mNm/A	4.54
20	转速常数	Speed constant	rpm/V	2056
21	转数/转矩常数	Speed/torque constant	rpm/mNm	521.0
22	机械时间常数	Mechanical time constant	ms	2.73
23	转子惯量	Rotor inertia	gcm ²	0.50
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	29
27	噪音	Typical noise level	dB	≤50

电机线序(Motor wire sequence):

·无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

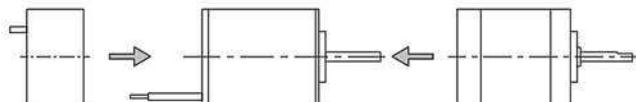
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

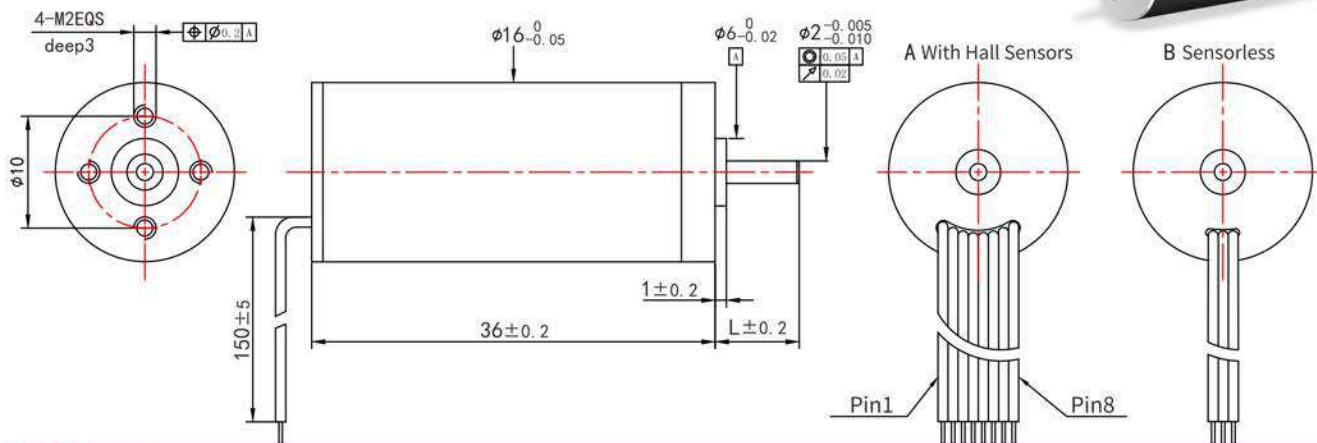
组合体系 System

适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ16*L36mm, 无刷直流电机, 25-55W, 高速 Φ16*L36mm, Brushless DC Motor, 25-55W, High speed



电机参数 Motor Data				
电机型号 Motor Model				
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	56550
3	额定电流	Nominal current	A	2.67
4	额定转矩	Nominal torque	mNm	4.19
空载点 Free Load				
5	空载转速	No-load speed	rpm	65000
6	空载电流	No-load current	mA	260
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	77.9
8	转速	Speed	rpm	58175
9	电流	Current	A	2.207
10	转矩	Torque	mNm	3.4
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	54.9
12	转速	Speed	rpm	32500
13	电流	Current	A	9.5
14	转矩	Torque	mNm	16.1
堵转点 At Stall				
15	堵转电流	Stall current	A	18.80
16	堵转转矩	Stall torque	mNm	32.2
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	0.64
18	电机感抗	Terminal inductance	mH	0.020
19	转矩常数	Torque constant	mNm/A	1.74
20	转速常数	Speed constant	rpm/V	5416.7
21	转数/转矩常数	Speed/torque constant	rpm/mNm	2017
22	机械时间常数	Mechanical time constant	ms	7.66
23	转子惯量	Rotor inertia	gcm ²	0.36
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	23
27	噪音	Typical noise level	dB	≤55

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

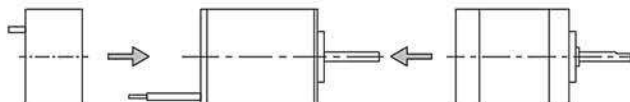
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

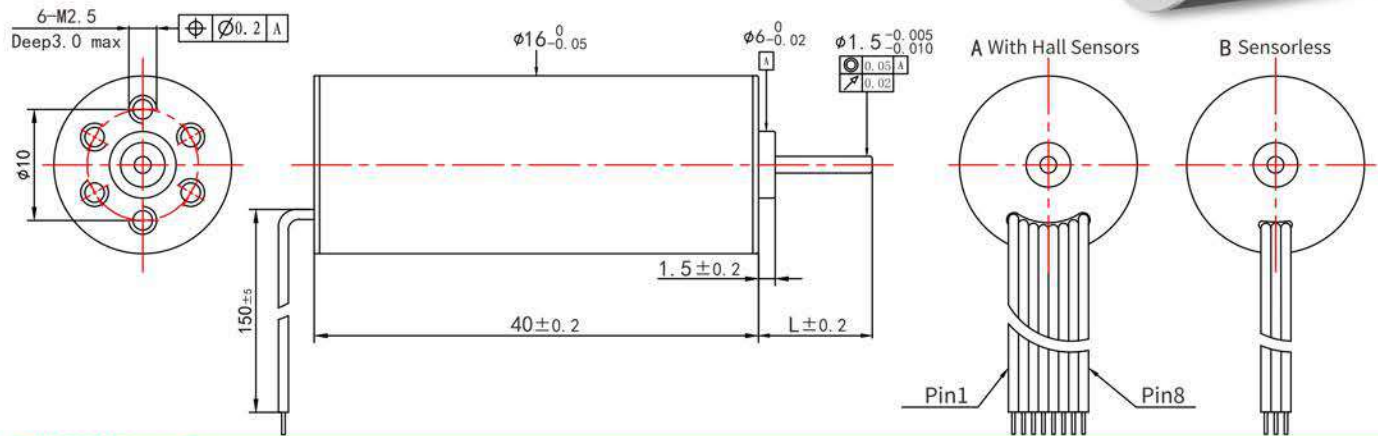
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ16*L40mm, 无刷直流电机, 3-6W

Φ16*L40mm, Brushless DC Motor, 3-6W



电机参数 Motor Data				
电机型号 Motor Model		1640	1640	1640
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	5395
3	额定电流	Nominal current	A	0.36
4	额定转矩	Nominal torque	mNm	5.19
空载点 Free Load				
5	空载转速	No-load speed	rpm	6500
6	空载电流	No-load current	mA	60
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	67.2
8	转速	Speed	rpm	5493
9	电流	Current	A	0.337
10	转矩	Torque	mNm	4.70
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	5.2
12	转速	Speed	rpm	3250
13	电流	Current	A	1.0
14	转矩	Torque	mNm	15.3
堵转点 At Stall				
15	堵转电流	Stall current	A	1.85
16	堵转转矩	Stall torque	mNm	30.5
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	6.49
18	电机感抗	Terminal inductance	mH	0.795
19	转矩常数	Torque constant	mNm/A	17.06
20	转速常数	Speed constant	rpm/V	541.7
21	转数/转矩常数	Speed/torque constant	rpm/mNm	212.9
22	机械时间常数	Mechanical time constant	ms	2.13
23	转子惯量	Rotor inertia	gcm ²	0.96
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	35
27	噪音	Typical noise level	dB	≤45

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

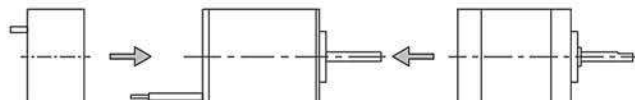
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90%(25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

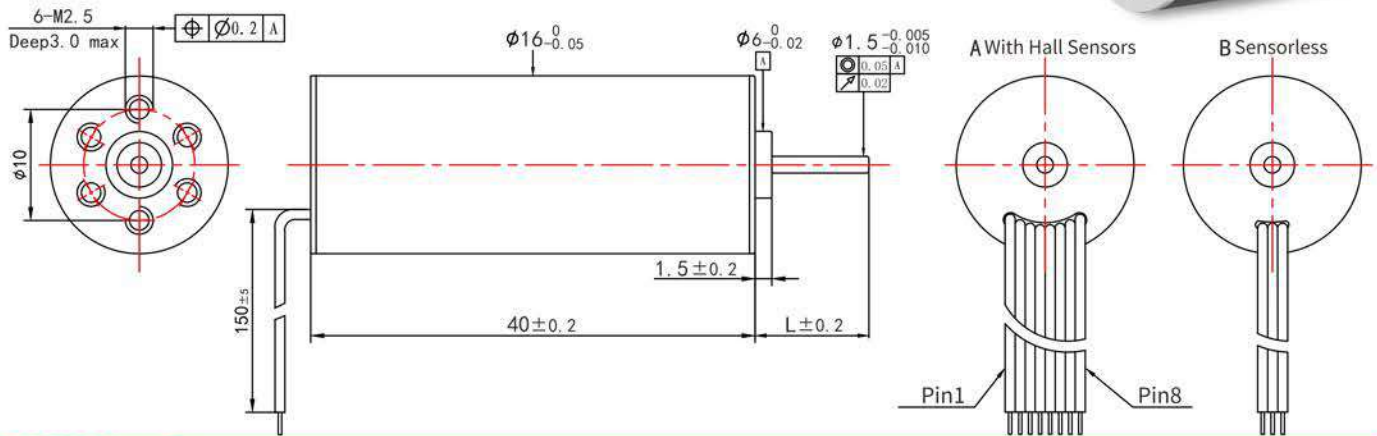
组合体系 System

适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ16*L40mm, 无刷直流电机, 20-65W, 高速 Φ16*L40mm, Brushless DC Motor, 20-65W, High speed



电机参数 Motor Data				
电机型号 Motor Model				
额定电压参数值 Value at Rated voltage		1640	1640	1640
额定点 At Nominal				
1 额定电压 Nominal voltage	V/DC	12	18	24
2 额定转速 Nominal speed	rpm	40800	45240	42323
3 额定电流 Nominal current	A	2.45	1.75	1.62
4 额定转矩 Nominal torque	mNm	5.20	4.97	6.45
空载点 Free Load				
5 空载转速 No-load speed	rpm	48000	52000	49500
6 空载电流 No-load current	mA	240	220	200
最大效率点 At Max. Efficiency				
7 最大效率 Max. efficiency	%	76.3	74.8	73.7
8 转速 Speed	rpm	42480	45760	43313
9 电流 Current	A	1.937	1.634	1.425
10 转矩 Torque	mNm	4.0	4.59	5.56
最大输出功率点 At Max. Output power				
11 最大功率 Max. output power	W	43.6	52.0	57.6
12 转速 Speed	rpm	24000	26000	24750
13 电流 Current	A	7.6	6.1	5.1
14 转矩 Torque	mNm	17.3	19.11	22.23
堵转点 At Stall				
15 堵转电流 Stall current	A	15.00	12.00	10.00
16 堵转转矩 Stall torque	mNm	34.7	38.23	44.47
电机常数 Motor Constants				
17 电机阻抗 Terminal resistance	Ω	0.80	1.50	2.40
18 电机感抗 Terminal inductance	mH	0.048	0.095	0.175
19 转矩常数 Torque constant	mNm/A	2.35	3.24	4.54
20 转速常数 Speed constant	rpm/V	4000	2889	2063
21 转数/转矩常数 Speed/torque constant	rpm/mNm	1384	1360	1113
22 机械时间常数 Mechanical time constant	ms	7.87	7.74	6.33
23 转子惯量 Rotor inertia	gcm ²	0.54	0.54	0.54
24 极对数 Number of pole pairs		1		
25 相数 Number of phase		3		
26 重量 Weight of motor	g	28.5		
27 噪音 Typical noise level	dB	≤55		

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

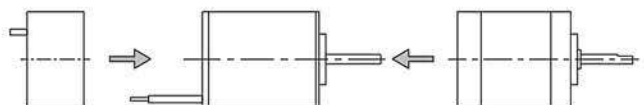
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

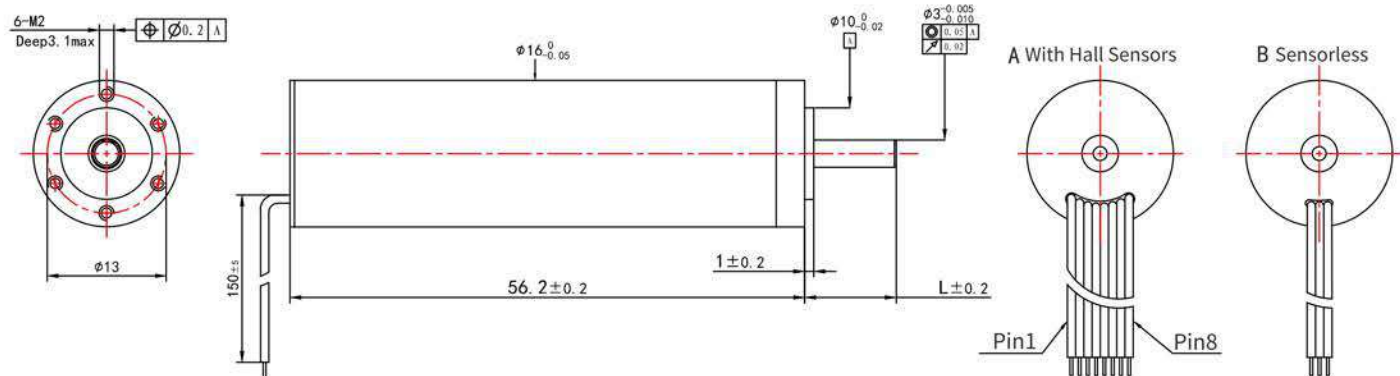
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ16*L56mm, 无刷直流电机, 6-18W

Φ16*L56mm, Brushless DC Motor, 6-18W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定值 At Nominal

1	额定电压	Nominal voltage	V/DC	12	18	24	36
2	额定转速	Nominal speed	rpm	8232	9010	10230	10073
3	额定电流	Nominal current	A	0.82	0.59	0.49	0.33
4	额定转矩	Nominal torque	mNm	7.98	8.13	8.03	8.36

空载点 Free Load

5	空载转速	No-load speed	rpm	9800	10600	12035	11850
6	空载电流	No-load current	mA	120	80	60	40

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	70.0	72.0	73.4	73.7
8	转速	Speed	rpm	8428	9275	10531	10369
9	电流	Current	A	0.733	0.508	0.419	0.285
10	转矩	Torque	mNm	7.0	6.77	6.69	6.97

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	12.8	15.0	16.9	17.3
12	转速	Speed	rpm	4900	5300	6018	5925
13	电流	Current	A	2.3	1.8	1.5	1.0
14	转矩	Torque	mNm	24.9	27.10	26.77	27.86

堵转点 At Stall

15	堵转电流	Stall current	A	4.50	3.50	2.93	2.00
16	堵转转矩	Stall torque	mNm	49.8	54.19	53.53	55.72

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	2.67	5.14	8.19	18.00
18	电机感抗	Terminal inductance	mH	0.285	0.578	0.945	2.120
19	转矩常数	Torque constant	mNm/A	11.38	15.85	18.65	28.43
20	转速常数	Speed constant	rpm/V	816.7	588.9	501.5	329.2
21	转速/转矩常数	Speed/torque constant	rpm/mNm	196.6	195.6	224.8	212.7
22	机械时间常数	Mechanical time constant	ms	1.94	1.93	2.22	2.10
23	转子惯量	Rotor inertia	gcm ²	0.94	0.94	0.94	0.94
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	41			
27	噪音	Typical noise level	dB	≤50			

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

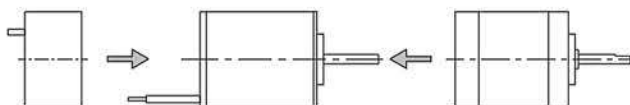
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

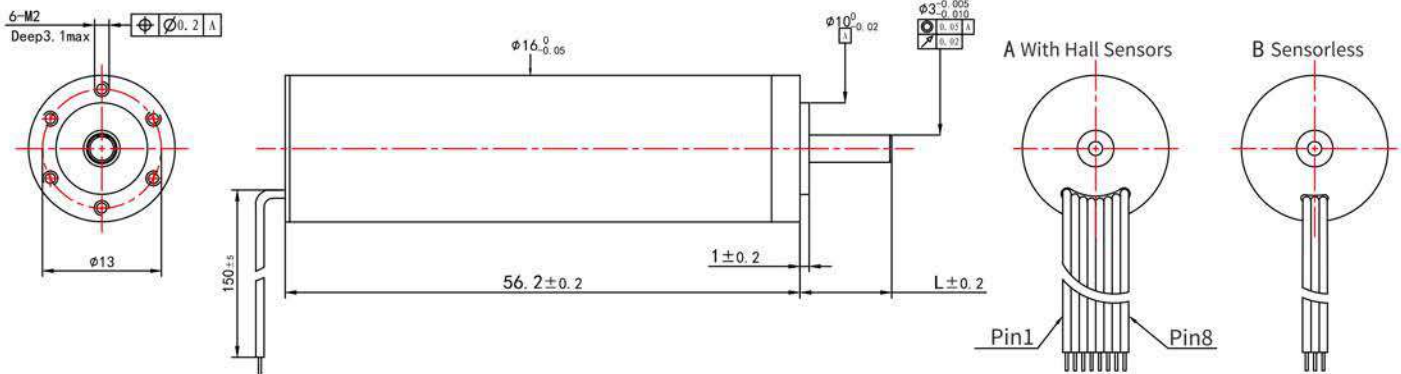
组合体系 System

适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ16*L56mm, 无刷直流电机, 70-200W, 高速 Φ16*L56mm, Brushless DC Motor, 70-200W, High speed



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定值 At Nominal

1	额定电压	Nominal voltage	V/DC	12	18	24	36	48
2	额定转速	Nominal speed	rpm	37613	41153	40800	36935	38275
3	额定电流	Nominal current	A	6.01	5.17	5.04	3.74	2.96
4	额定转矩	Nominal torque	mNm	14.54	17.53	22.51	27.03	27.38

空载点 Free Load

5	空载转速	No-load speed	rpm	42500	46500	48000	44500	46114
6	空载电流	No-load current	mA	550	380	285	210	175

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	79.7	81.9	82.0	81.0	80.5
8	转速	Speed	rpm	38888	42548	43440	40273	41733
9	电流	Current	A	4.583	3.918	3.298	2.185	1.731
10	转矩	Torque	mNm	10.8	12.96	14.26	15.11	15.30

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	140.7	185.6	188.6	185.2	194
12	转速	Speed	rpm	21250	23250	24000	22250	23057
13	电流	Current	A	24.3	21.2	16.1	10.6	8
14	转矩	Torque	mNm	63.2	76.23	75.04	79.50	80.52

堵转点 At Stall

15	堵转电流	Stall current	A	48.00	42.00	32.00	21.00	16.55
16	堵转转矩	Stall torque	mNm	126.5	152.46	150.08	159.00	161.04

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.25	0.43	0.75	1.71	2.9
18	电机感抗	Terminal inductance	mH	0.012	0.023	0.041	0.081	0.180
19	转矩常数	Torque constant	mNm/A	2.67	3.66	4.73	7.65	9.8
20	转速常数	Speed constant	rpm/V	3542	2583	2000	1236	961
21	转速/转矩常数	Speed/torque constant	rpm/mNm	336.0	305.0	319.8	279.9	286.3
22	机械时间常数	Mechanical time constant	ms	3.80	3.45	3.62	3.17	3.24
23	转子惯量	Rotor inertia	gcm ²	1.08	1.08	1.08	1.08	1.08
24	极对数	Number of pole pairs		1				
25	相数	Number of phase		3				
26	重量	Weight of motor	g	34				
27	噪音	Typical noise level	dB	≤45				

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

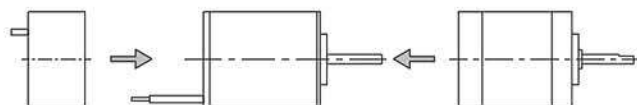
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

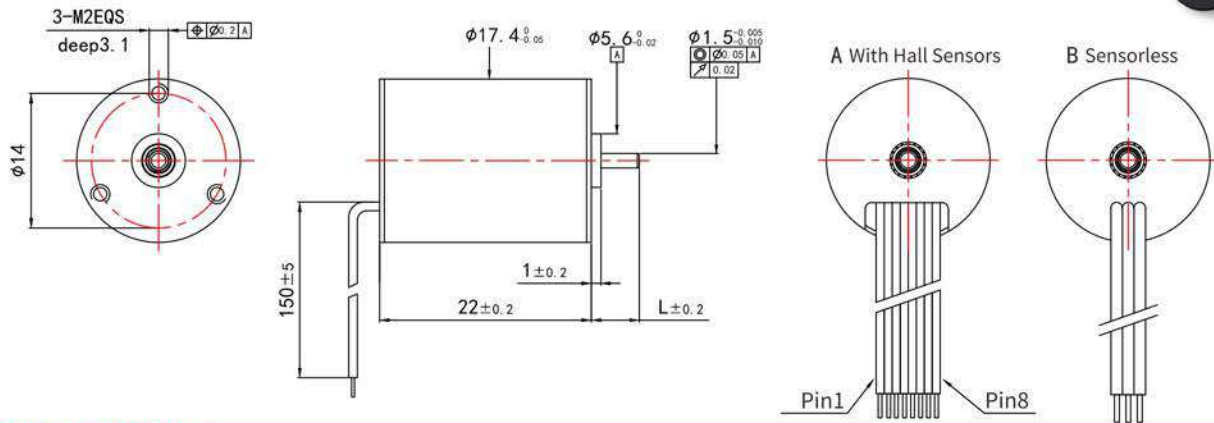
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



$\phi 17 \times L22\text{mm}$, 无刷直流电机, 6-15W

$\phi 17 \times L22\text{m}$, Brushless DC Motor, 6-15W



电机参数 Motor Data				
电机型号 Motor Model		1722	1722	1722
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	22011
3	额定电流	Nominal current	A	0.78
4	额定转矩	Nominal torque	mNm	2.62
空载点 Free Load				
5	空载转速	No-load speed	rpm	25300
6	空载电流	No-load current	mA	180
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	65.0
8	转速	Speed	rpm	21379
9	电流	Current	A	0.896
10	转矩	Torque	mNm	3.1
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	13.3
12	转速	Speed	rpm	12650
13	电流	Current	A	2.5
14	转矩	Torque	mNm	10.1
堵转点 At Stall				
15	堵转电流	Stall current	A	4.80
16	堵转转矩	Stall torque	mNm	20.1
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	2.50
18	电机感抗	Terminal inductance	mH	0.103
19	转矩常数	Torque constant	mNm/A	4.36
20	转速常数	Speed constant	rpm/V	2108
21	转速/转矩常数	Speed/torque constant	rpm/mNm	1256.2
22	机械时间常数	Mechanical time constant	ms	5.53
23	转子惯量	Rotor inertia	gcm^2	0.42
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	25
27	噪音	Typical noise level	dB	≤ 50

电机线序(Motor wire sequence):

· 无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4- V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

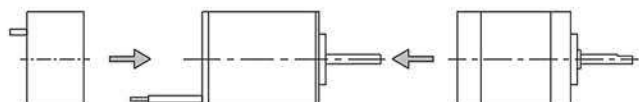
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: $\leq 0.015\text{mm}$
 环境温度范围 Ambient temperature range: $-20 \sim +80^\circ\text{C}$
 相对湿度范围 Relative humidity range: $< 90\% (25^\circ\text{C})$
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

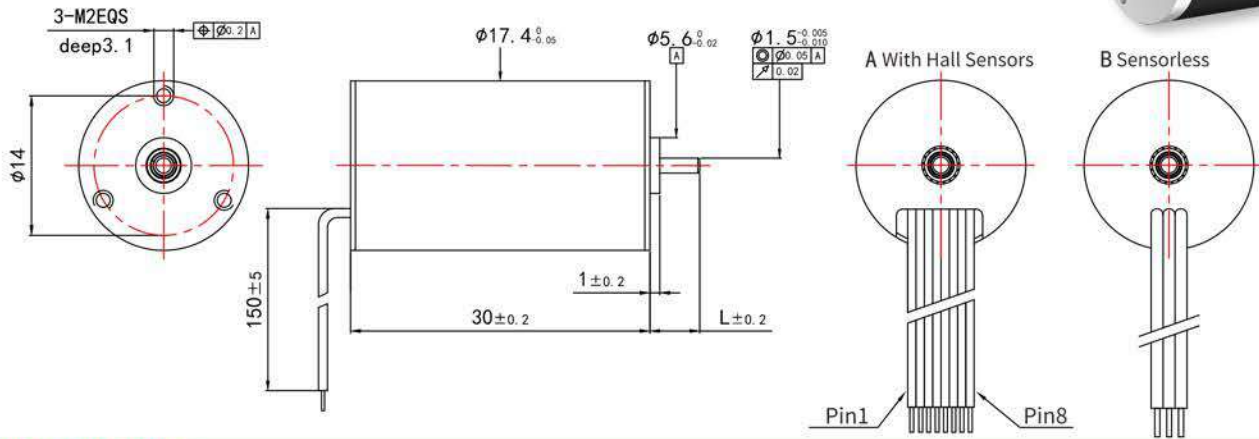
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ17*L30mm, 无刷直流电机, 7-18W

Φ17*L30mm, Brushless DC Motor, 7-18W



电机参数 Motor Data						
电机型号 Motor Model				1730	1730	1730
额定电压参数值 Value at Rated voltage						
额定点 At Nominal						
1	额定电压	Nominal voltage	V/DC	12	18	24
2	额定转速	Nominal speed	rpm	17835	16095	18270
3	额定电流	Nominal current	A	0.82	0.59	0.50
4	额定转矩	Nominal torque	mNm	3.45	4.24	4.19
空载点 Free Load						
5	空载转速	No-load speed	rpm	20500	18500	21000
6	空载电流	No-load current	mA	180	120	100
最大效率点 At Max. Efficiency						
7	最大效率	Max. efficiency	%	66.0	67.4	67.5
8	转速	Speed	rpm	17220	15725	17850
9	电流	Current	A	0.967	0.665	0.558
10	转矩	Torque	mNm	4.2	4.90	4.83
最大输出功率点 At Max. Output power						
11	最大功率	Max. output power	W	14.2	15.8	17.7
12	转速	Speed	rpm	10250	9250	10500
13	电流	Current	A	2.6	1.9	1.6
14	转矩	Torque	mNm	13.3	16.32	16.11
堵转点 At Stall						
15	堵转电流	Stall current	A	5.10	3.75	3.15
16	堵转转矩	Stall torque	mNm	26.5	32.65	32.23
电机常数 Motor Constants						
17	电机阻抗	Terminal resistance	Ω	2.35	4.80	7.62
18	电机感抗	Terminal inductance	mH	0.135	0.311	0.480
19	转矩常数	Torque constant	mNm/A	5.39	8.99	10.57
20	转速常数	Speed constant	rpm/V	1708	1028	875
21	转速/转矩常数	Speed/torque constant	rpm/mNm	772.7	566.7	651.6
22	机械时间常数	Mechanical time constant	ms	3.87	2.84	3.26
23	转子惯量	Rotor inertia	gcm ²	0.48	0.48	0.48
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	36		
27	噪音	Typical noise level	dB	≤50		

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

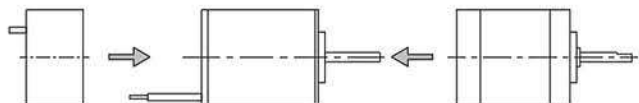
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

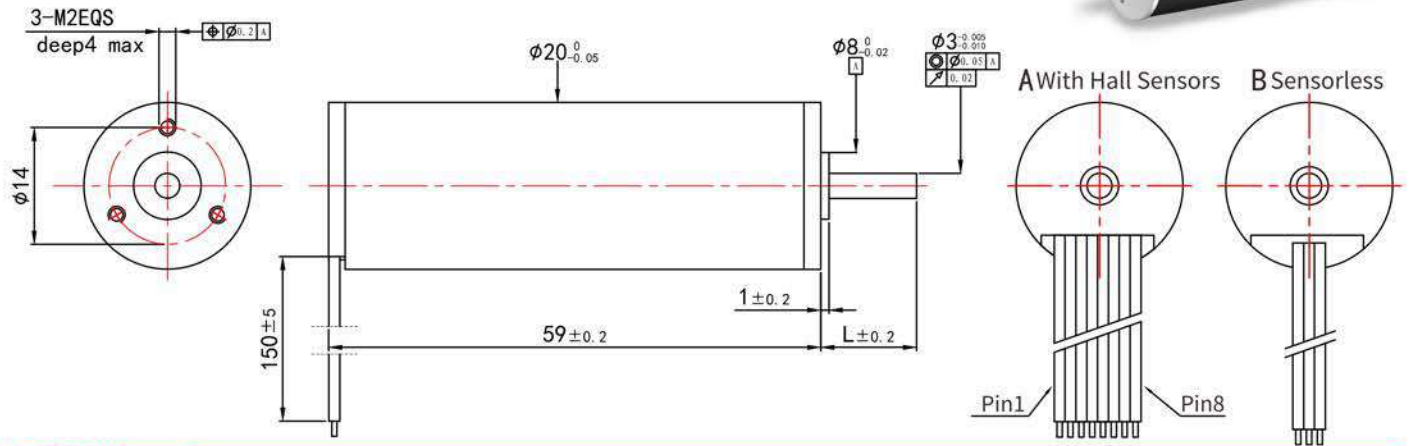
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 磁电式编码器 Magnetolectric encoder



Φ20*L59mm, 无刷直流电机, 30-78W

Φ20*L59mm, Brushless DC Motor, 30-78W



电机参数 Motor Data				
电机型号 Motor Model		2059	2059	2059
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	38720
3	额定电流	Nominal current	A	3.11
4	额定转矩	Nominal torque	mNm	6.94
空载点 Free Load				
5	空载转速	No-load speed	rpm	44000
6	空载电流	No-load current	mA	400
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	75.4
8	转速	Speed	rpm	37840
9	电流	Current	A	3.564
10	转矩	Torque	mNm	8.1
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	66.6
12	转速	Speed	rpm	22000
13	电流	Current	A	11.7
14	转矩	Torque	mNm	28.9
堵转点 At Stall				
15	堵转电流	Stall current	A	23.00
16	堵转转矩	Stall torque	mNm	57.8
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	0.52
18	电机感抗	Terminal inductance	mH	0.024
19	转矩常数	Torque constant	mNm/A	2.56
20	转速常数	Speed constant	rpm/V	3667
21	转数/转矩常数	Speed/torque constant	rpm/mNm	760.8
22	机械时间常数	Mechanical time constant	ms	8.80
23	转子惯量	Rotor inertia	gcm ²	1.10
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	82
27	噪音	Typical noise level	dB	≤50

电机线序(Motor wire sequence):

· 无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

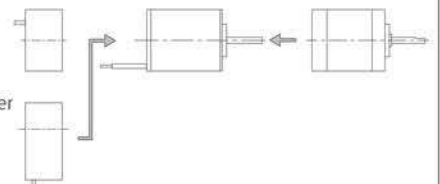
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向(动态) Max axial load (dynamic): 0.8N
 · 径向(法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

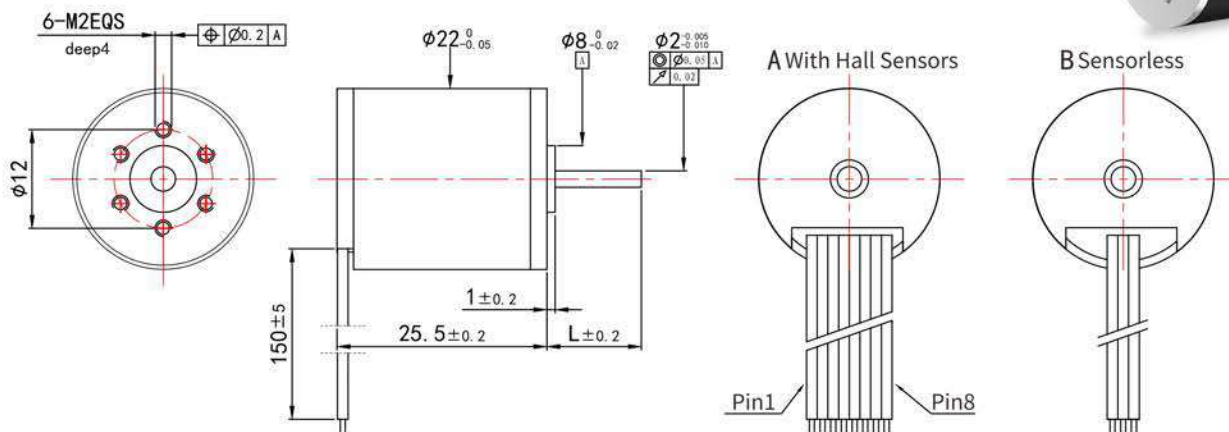
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder



Φ22*L25mm, 无刷直流电机, 2-4W

Φ22*L25mm, Brushless DC Motor, 2-4W



电机参数 Motor Data

电机型号 Motor Model				2225	2225	2225	2225
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	9	12	18	24
2	额定转速	Nominal speed	rpm	6759	7056	6888	6880
3	额定电流	Nominal current	A	0.37	0.31	0.19	0.17
4	额定转矩	Nominal torque	mNm	2.44	2.78	2.69	3.60
空载点 Free Load							
5	空载转速	No-load speed	rpm	8046	8400	8200	8600
6	空载电流	No-load current	mA	120	90	50	33
最大效率点 At Max. Efficiency							
7	最大效率	Max. efficiency	%	53.5	56.4	58.4	62.2
8	转速	Speed	rpm	6356	6720	6642	7095
9	电流	Current	A	0.443	0.362	0.212	0.157
10	转矩	Torque	mNm	3.2	3.48	3.20	3.15
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	3.2	3.8	3.6	4.1
12	转速	Speed	rpm	4023	4200	4100	4300
13	电流	Current	A	0.9	0.8	0.5	0.4
14	转矩	Torque	mNm	7.6	8.70	8.41	9.00
堵转点 At Stall							
15	堵转电流	Stall current	A	1.66	1.45	0.90	0.74
16	堵转转矩	Stall torque	mNm	15.3	17.40	16.83	18.00
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	5.42	8.28	20.00	32.43
18	电机感抗	Terminal inductance	mH	0.522	0.922	2.040	3.180
19	转矩常数	Torque constant	mNm/A	9.91	12.80	19.80	25.46
20	转速常数	Speed constant	rpm/V	894.0	700.0	455.6	358.3
21	转数/转矩常数	Speed/torque constant	rpm/mNm	527.2	482.7	487.3	477.8
22	机械时间常数	Mechanical time constant	ms	10.41	9.53	9.62	9.43
23	转子惯量	Rotor inertia	gcm ²	1.89	1.89	1.89	1.89
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	40.8			
27	噪音	Typical noise level	dB	≤45			

电机线序(Motor wire sequence):

·无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

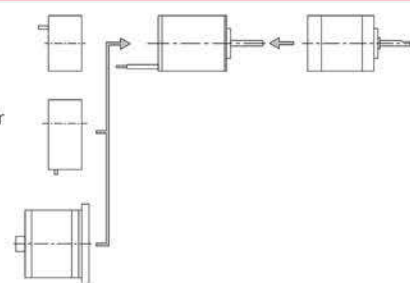
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

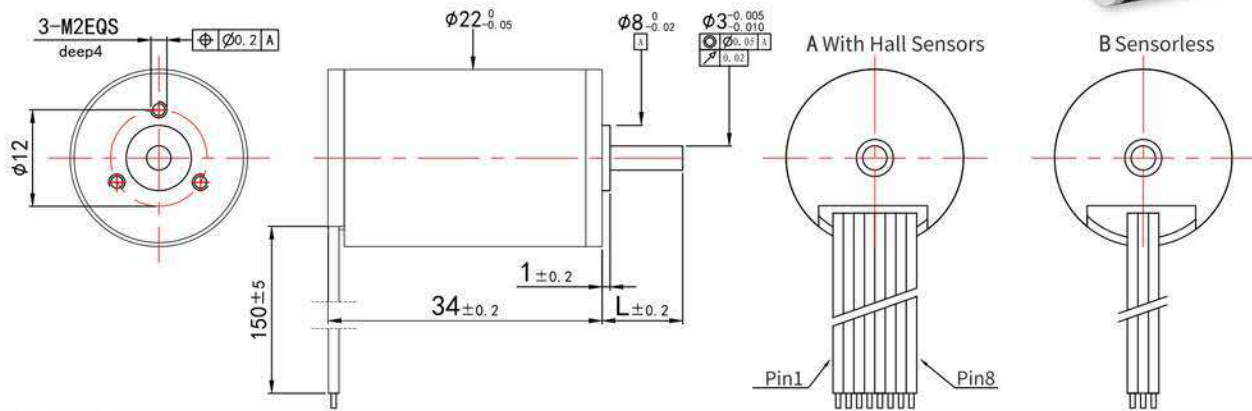
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ22*L34mm, 无刷直流电机, 45-110W

Φ22*L34mm, Brushless DC Motor, 45-110W



电机参数 Motor Data				
电机型号 Motor Model		2234	2234	2234
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	45675
3	额定电流	Nominal current	A	4.42
4	额定转矩	Nominal torque	mNm	8.91
空载点 Free Load				
5	空载转速	No-load speed	rpm	52500
6	空载电流	No-load current	mA	300
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	81.6
8	转速	Speed	rpm	48300
9	电流	Current	A	2.836
10	转矩	Torque	mNm	5.5
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	94.2
12	转速	Speed	rpm	26250
13	电流	Current	A	16.2
14	转矩	Torque	mNm	34.3
堵转点 At Stall				
15	堵转电流	Stall current	A	32.00
16	堵转转矩	Stall torque	mNm	68.5
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	0.38
18	电机感抗	Terminal inductance	mH	0.035
19	转矩常数	Torque constant	mNm/A	2.16
20	转速常数	Speed constant	rpm/V	4375
21	转数/转矩常数	Speed/torque constant	rpm/mNm	765.9
22	机械时间常数	Mechanical time constant	ms	8.70
23	转子惯量	Rotor inertia	gcm ²	1.08
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	55.2
27	噪音	Typical noise level	dB	≤55

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

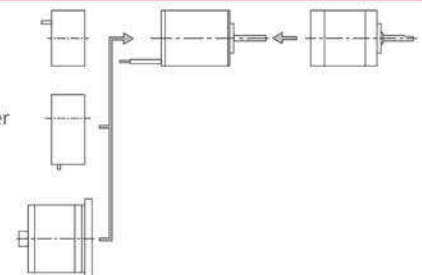
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

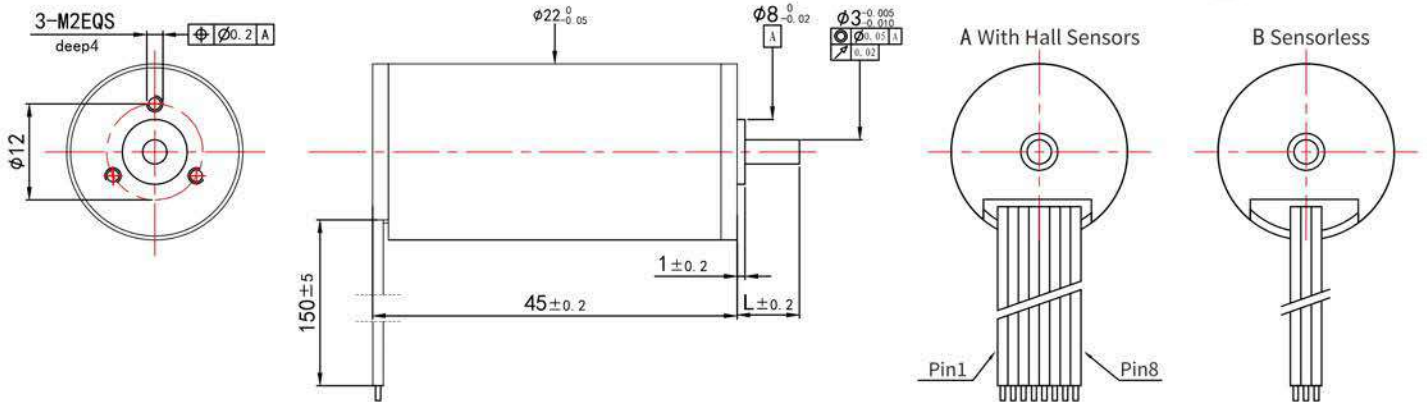
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ22*L45mm, 无刷直流电机, 10-35W

Φ22*L45mm, Brushless DC Motor, 10-35W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定值 At Nominal

				2245	2245	2245	2245
1	额定电压	Nominal voltage	V/DC	12	15	18	24
2	额定转速	Nominal speed	rpm	11050	10625	8925	10370
3	额定电流	Nominal current	A	1.82	1.36	0.87	0.81
4	额定转矩	Nominal torque	mNm	13.84	13.58	12.23	12.97

空载点 Free Load

5	空载转速	No-load speed	rpm	13000	12500	10500	12200
6	空载电流	No-load current	mA	220	150	110	110

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	73.6	74.8	73.0	73.2
8	转速	Speed	rpm	11375	11000	9188	10675
9	电流	Current	A	1.555	1.116	0.746	0.688
10	转矩	Torque	mNm	11.5	10.87	10.20	10.81

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	31.4	29.6	22.4	27.6
12	转速	Speed	rpm	6500	6250	5250	6100
13	电流	Current	A	5.6	4.2	2.7	2.5
14	转矩	Torque	mNm	46.1	45.28	40.78	43.23

堵转点 At Stall

15	堵转电流	Stall current	A	10.90	8.20	5.20	4.80
16	堵转转矩	Stall torque	mNm	92.2	90.56	81.56	86.45

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	1.10	1.83	3.46	5.00
18	电机感抗	Terminal inductance	mH	0.180	0.293	0.504	0.760
19	转矩常数	Torque constant	mNm/A	8.64	11.25	16.02	18.39
20	转速常数	Speed constant	rpm/V	1083	833	583	508
21	转数/转矩常数	Speed/torque constant	rpm/mNm	140.9	138.0	128.7	141.1
22	机械时间常数	Mechanical time constant	ms	3.22	3.15	2.94	3.22
23	转子惯量	Rotor inertia	gcm ²	2.18	2.18	2.18	2.18
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	84.8			
27	噪音	Typical noise level	dB	≤45			

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (ables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

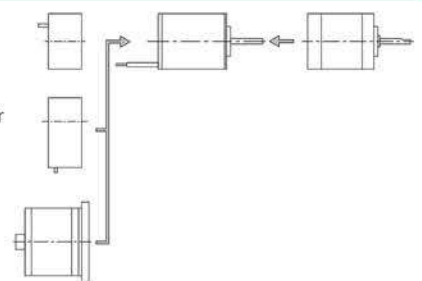
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

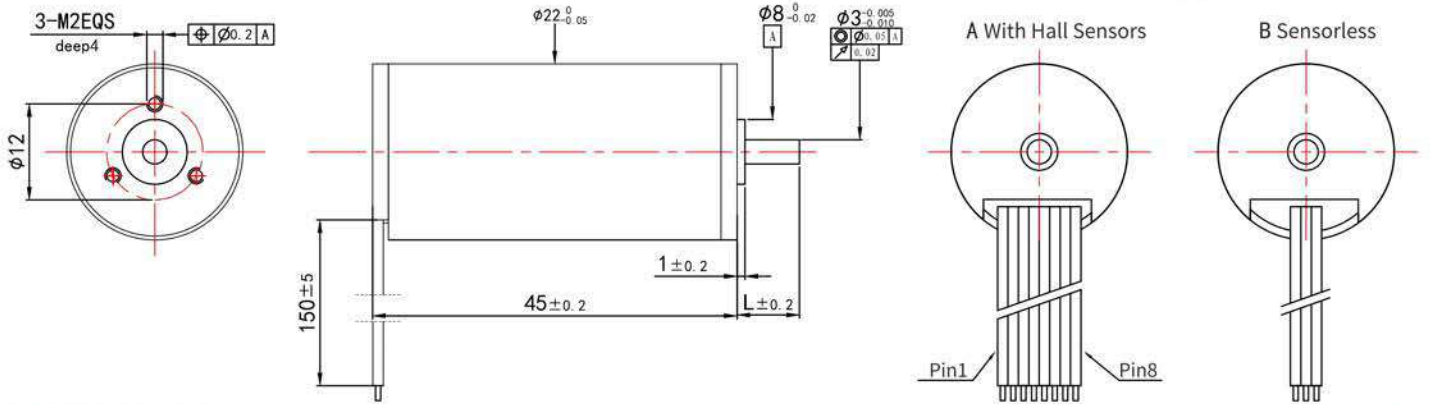
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ22*L45mm, 无刷直流电机, 25-50W, 高速

Φ22*L45mm, Brushless DC Motor, 25-50W, High speed



电机参数 Motor Data

电机型号 Motor Model				2245	2245	2245	2245
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	12	18	24	36
2	额定转速	Nominal speed	rpm	11484	11310	11745	12006
3	额定电流	Nominal current	A	2.32	1.54	1.18	0.83
4	额定转矩	Nominal torque	mNm	17.16	17.37	16.96	18.20
空载点 Free Load							
5	空载转速	No-load speed	rpm	13200	13000	13500	13800
6	空载电流	No-load current	mA	300	200	160	90
最大效率点 At Max.Efficiency							
7	最大效率	Max. efficiency	%	74.3	74.3	73.7	76.6
8	转速	Speed	rpm	11616	11440	11813	12144
9	电流	Current	A	2.160	1.436	1.140	0.775
10	转矩	Torque	mNm	16.5	16.70	16.30	17.50
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	45.6	45.5	46.1	50.6
12	转速	Speed	rpm	6600	6500	6750	6900
13	电流	Current	A	8.1	5.4	4.1	2.9
14	转矩	Torque	mNm	66.0	66.80	65.22	70.02
堵转点 At Stall							
15	堵转电流	Stall current	A	15.80	10.50	8.00	5.80
16	堵转转矩	Stall torque	mNm	132.0	133.59	130.43	140.04
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	0.76	1.71	3.00	6.21
18	电机感抗	Terminal inductance	mH	0.073	0.158	0.282	0.625
19	转矩常数	Torque constant	mNm/A	8.52	12.97	16.64	24.52
20	转速常数	Speed constant	rpm/V	1100.0	722.2	562.5	383.3
21	转数/转矩常数	Speed/torque constant	rpm/mNm	100.0	97.3	103.5	98.5
22	机械时间常数	Mechanical time constant	ms	3.57	3.47	3.69	3.52
23	转子惯量	Rotor inertia	gcm ²	3.41	3.41	3.41	3.41
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	72			
27	噪音	Typical noise level	dB	≤50			

电机线序(Motor wire sequence):

·无传感器 (Without Sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

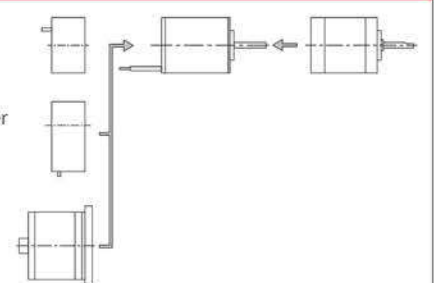
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

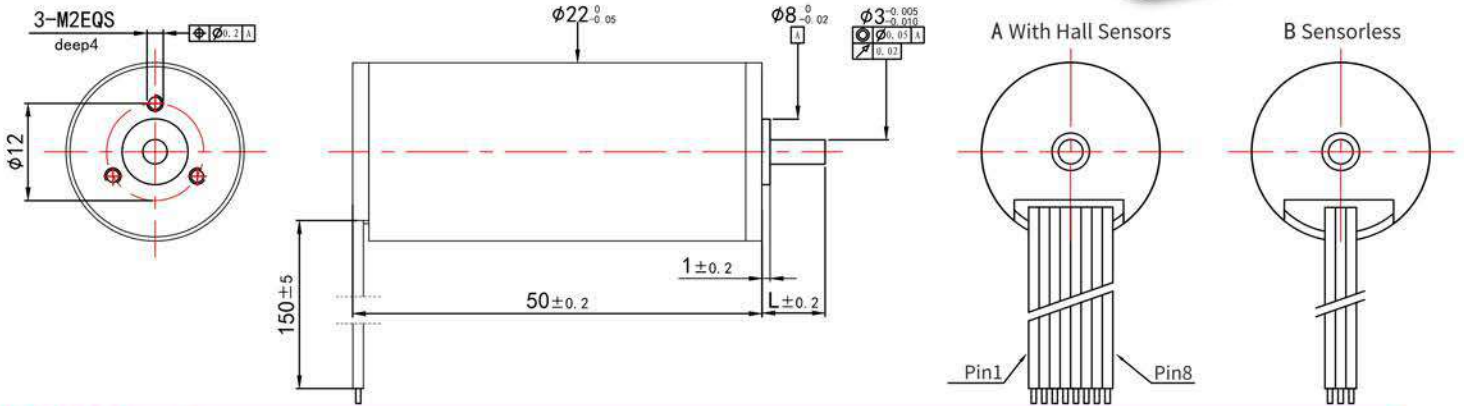
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ22*L50mm, 无刷直流电机, 13-60W

Φ22*L50mm, Brushless DC Motor, 13-60W



电机参数 Motor Data					2250	2250	2250	2250	2250
电机型号 Motor Model					2250	2250	2250	2250	2250
额定电压参数值 Value at Rated voltage									
额定点 At Nominal									
1	额定电压	Nominal voltage	V/DC		12	12	18	24	36
2	额定转速	Nominal speed	rpm		7091	10266	11136	10440	10614
3	额定电流	Nominal current	A		1.05	2.45	1.85	1.34	0.91
4	额定转矩	Nominal torque	mNm		13.52	21.59	22.52	23.30	23.23
空载点 Free Load									
5	空载转速	No-load speed	rpm		8150	11800	12800	12000	12200
6	空载电流	No-load current	mA		80	200	150	108	80
最大效率点 At Max. Efficiency									
7	最大效率	Max. efficiency	%		81.9	79.8	79.8	79.9	79.0
8	转速	Speed	rpm		7457	10679	11584	10860	11041
9	电流	Current	A		0.830	1.844	1.390	1.010	0.690
10	转矩	Torque	mNm		10.4	15.78	16.46	17.03	16.97
最大输出功率点 At Max. Output power									
11	最大功率	Max. output power	W		26.2	51.3	58.1	56.3	57
12	转速	Speed	rpm		4075	5900	6400	6000	6100
13	电流	Current	A		4.5	8.9	6.7	4.9	3
14	转矩	Torque	mNm		61.4	83.04	86.63	89.62	89.34
堵转点 At Stall									
15	堵转电流	Stall current	A		8.90	17.50	13.20	9.60	6.50
16	堵转转矩	Stall torque	mNm		122.9	166.08	173.25	179.24	178.68
电机常数 Motor Constants									
17	电机阻抗	Terminal resistance	Ω		1.35	0.69	1.36	2.50	5.5
18	电机感抗	Terminal inductance	mH		0.076	0.076	0.132	0.280	0.610
19	转矩常数	Torque constant	mNm/A		13.93	9.60	13.28	18.88	27.8
20	转速常数	Speed constant	rpm/V		679.2	983.3	711.1	500.0	338.9
21	转数/转矩常数	Speed/torque constant	rpm/mNm		66.3	71.0	73.9	66.9	68.3
22	机械时间常数	Mechanical time constant	ms		2.46	2.64	2.74	2.48	2.53
23	转子惯量	Rotor inertia	gcm ²		3.54	3.54	3.54	3.54	3.54
24	极对数	Number of pole pairs			1				
25	相数	Number of phase			3				
26	重量	Weight of motor	g		92				
27	噪音	Typical noise level	dB		≤45				

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

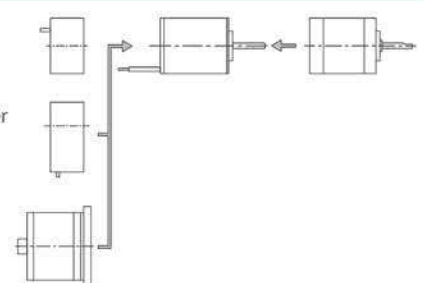
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

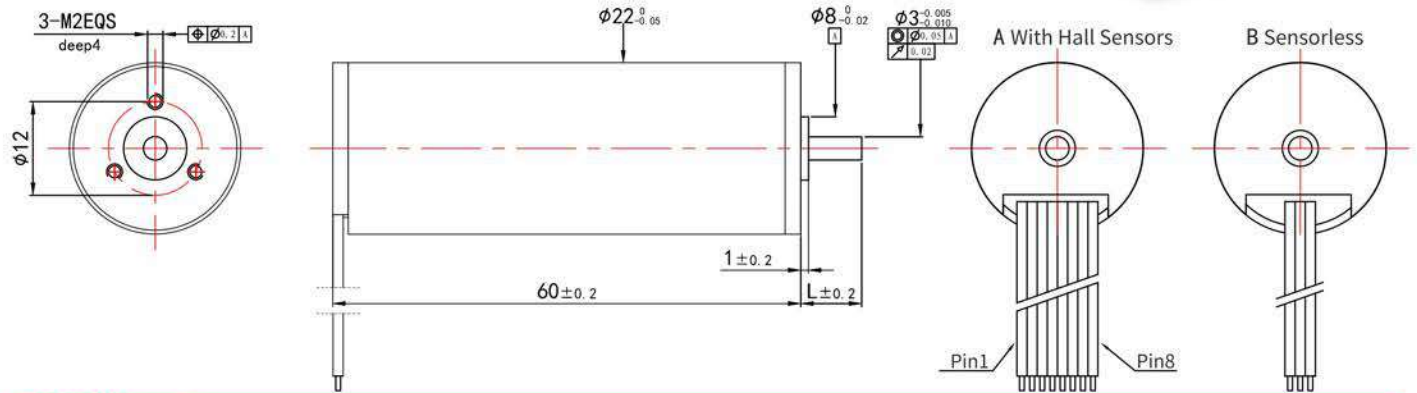
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ22*L60mm, 无刷直流电机, 55-150W

Φ22*L60mm, Brushless DC Motor, 55-150W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定值 At Nominal

				2260	2260	2260	2260	2260
1	额定电压	Nominal voltage	V/DC	12	18	24	36	48
2	额定转速	Nominal speed	rpm	14442	16095	15312	15834	15660
3	额定电流	Nominal current	A	5.31	4.58	3.45	2.46	1.85
4	额定转矩	Nominal torque	mNm	33.35	38.13	39.35	39.70	39.28

空载点 Free Load

5	空载转速	No-load speed	rpm	16600	18500	17600	18200	18000
6	空载电流	No-load current	mA	420	420	380	320	270

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	80.1	78.5	76.4	74.3	72.7
8	转速	Speed	rpm	14442	16095	15312	15834	15660
9	电流	Current	A	5.305	4.577	3.451	2.462	1.847
10	转矩	Torque	mNm	33.4	38.13	39.35	39.70	39.28

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	111.5	142.0	139.5	145.5	142
12	转速	Speed	rpm	8300	9250	8800	9100	9000
13	电流	Current	A	19.2	16.4	12.2	8.6	6
14	转矩	Torque	mNm	128.3	146.64	151.35	152.68	151.08

堵转点 At Stall

15	堵转电流	Stall current	A	38.00	32.40	24.00	16.80	12.40
16	堵转转矩	Stall torque	mNm	256.6	293.28	302.70	305.36	302.16

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.32	0.56	1.00	2.14	3.9
18	电机感抗	Terminal inductance	mH	0.028	0.054	0.102	0.224	0.390
19	转矩常数	Torque constant	mNm/A	6.83	9.17	12.82	18.53	24.9
20	转速常数	Speed constant	rpm/V	1383.3	1027.8	733.3	505.6	375.0
21	转数/转矩常数	Speed/torque constant	rpm/mNm	64.7	63.1	58.1	59.6	59.6
22	机械时间常数	Mechanical time constant	ms	3.23	3.15	2.90	2.98	2.97
23	转子惯量	Rotor inertia	gcm ²	4.77	4.77	4.77	4.77	4.77
24	极对数	Number of pole pairs		1				
25	相数	Number of phase		3				
26	重量	Weight of motor	g	101				
27	噪音	Typical noise level	dB	≤45				

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

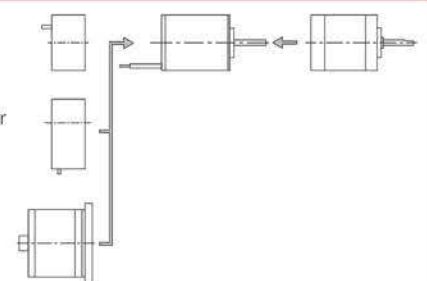
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90%(25°C)
 最高转子温度 Highest rotor temperature: 85°C
 轴承可选配滑动轴承/滚珠轴承 Bearing optional: ball/sleeve
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

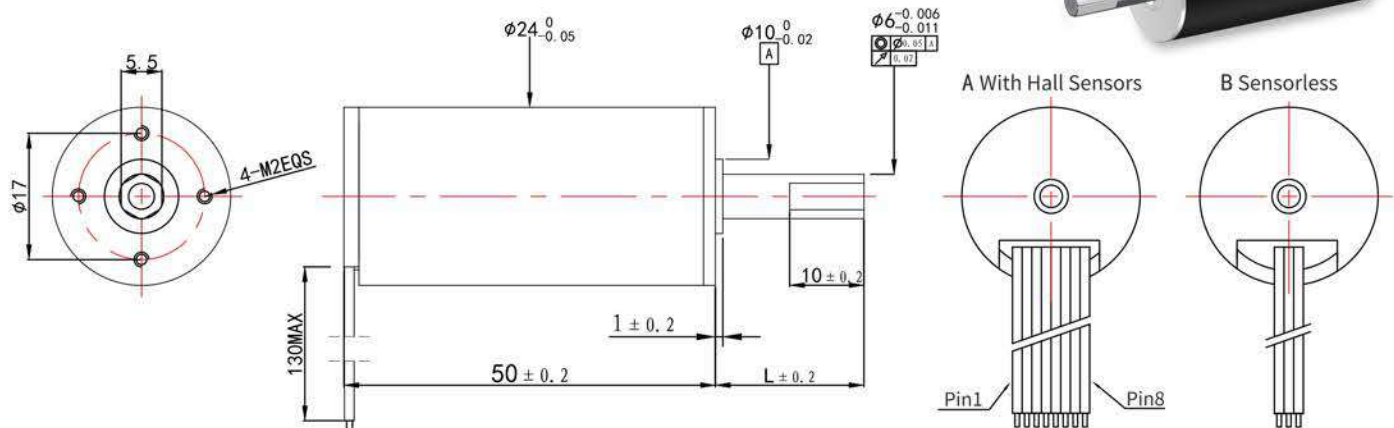
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ24*L50mm, 无刷直流电机, 25-60W

Φ24*L50mm, Brushless DC Motor, 25-60W



电机参数 Motor Data				
电机型号 Motor Model				
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	13770
3	额定电流	Nominal current	A	2.77
4	额定转矩	Nominal torque	mNm	16.77
空载点 Free Load				
5	空载转速	No-load speed	rpm	16200
6	空载电流	No-load current	mA	350
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	73.0
8	转速	Speed	rpm	14175
9	电流	Current	A	2.369
10	转矩	Torque	mNm	14.0
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	47.4
12	转速	Speed	rpm	8100
13	电流	Current	A	8.4
14	转矩	Torque	mNm	55.9
堵转点 At Stall				
15	堵转电流	Stall current	A	16.50
16	堵转转矩	Stall torque	mNm	111.8
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	0.73
18	电机感抗	Terminal inductance	mH	0.260
19	转矩常数	Torque constant	mNm/A	6.92
20	转速常数	Speed constant	rpm/V	1350
21	转数/转矩常数	Speed/torque constant	rpm/mNm	144.9
22	机械时间常数	Mechanical time constant	ms	5.67
23	转子惯量	Rotor inertia	gcm ²	3.74
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	115
27	噪音	Typical noise level	dB	≤45

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

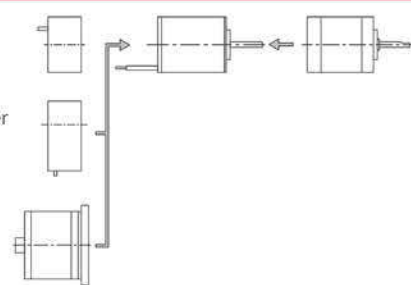
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

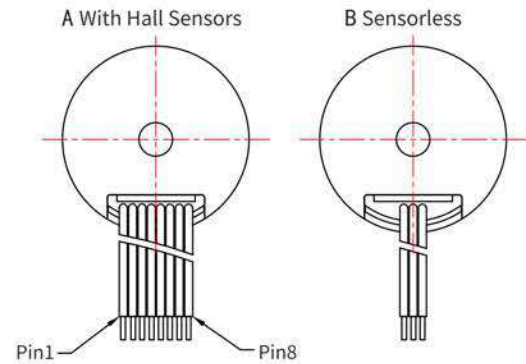
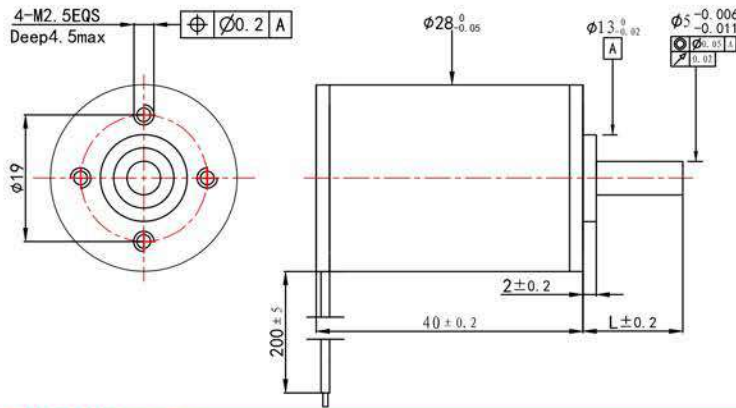
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ28*L40mm, 无刷直流电机, 4-6W

Φ28*L40mm, Brushless DC Motor, 4-6W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定点 At Nominal

				2840	2840	2840
1	额定电压	Nominal voltage	V/DC	12	18	24
2	额定转速	Nominal speed	rpm	5394	5568	5220
3	额定电流	Nominal current	A	0.61	0.46	0.33
4	额定转矩	Nominal torque	mNm	8.36	9.02	8.81

空载点 Free Load

5	空载转速	No-load speed	rpm	6200	6400	6000
6	空载电流	No-load current	mA	138	110	90

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	65.3	64.3	61.6
8	转速	Speed	rpm	5115	5280	4950
9	电流	Current	A	0.770	0.581	0.416
10	转矩	Torque	mNm	11.3	12.15	11.86

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	10.4	11.6	10.6
12	转速	Speed	rpm	3100	3200	3000
13	电流	Current	A	1.9	1.5	1.0
14	转矩	Torque	mNm	32.2	34.70	33.88

堵转点 At Stall

15	堵转电流	Stall current	A	3.75	2.80	1.95
16	堵转转矩	Stall torque	mNm	64.3	69.41	67.7

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	3.20	6.43	12.31
18	电机感抗	Terminal inductance	mH	0.170	0.372	0.706
19	转矩常数	Torque constant	mNm/A	17.80	25.80	36.43
20	转速常数	Speed constant	rpm/V	516.7	355.6	250.0
21	转数/转矩常数	Speed/torque constant	rpm/mNm	96.4	92.2	88.5
22	机械时间常数	Mechanical time constant	ms	6.86	6.56	6.30
23	转子惯量	Rotor inertia	gcm ²	6.79	6.79	6.79
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	119		
27	噪音	Typical noise level	dB	≤45		

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

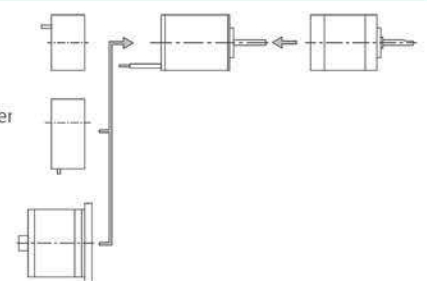
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

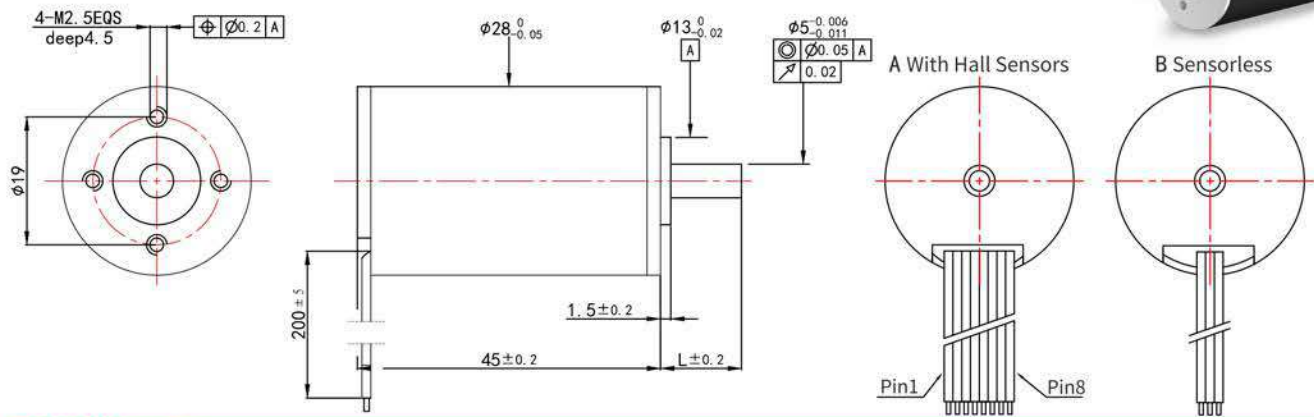
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ28*L45mm, 无刷直流电机, 60-170W

Φ28*L45mm, Brushless DC Motor, 60-170W



电机参数 Motor Data				2845	2845	2845	2845
电机型号 Motor Model				2845	2845	2845	2845
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	12	18	24	36
2	额定转速	Nominal speed	rpm	14240	16013	16999	16275
3	额定电流	Nominal current	A	4.96	5.07	3.44	2.68
4	额定转矩	Nominal torque	mNm	32.49	43.77	37.23	43.77
空载点 Free Load							
5	空载转速	No-load speed	rpm	16000	18300	19100	18600
6	空载电流	No-load current	mA	380	360	300	280
最大效率点 At Max. Efficiency							
7	最大效率	Max. efficiency	%	81.9	81.5	80.6	77.5
8	转速	Speed	rpm	14480	16653	17286	16647
9	电流	Current	A	4.334	3.748	3.008	2.298
10	转矩	Torque	mNm	28.1	31.52	32.15	36.76
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	123.7	167.8	169.2	170.5
12	转速	Speed	rpm	8000	9150	9550	9300
13	电流	Current	A	21.2	19.2	14.6	9.9
14	转矩	Torque	mNm	147.7	175.10	169.21	175.07
堵转点 At Stall							
15	堵转电流	Stall current	A	42.00	38.00	28.80	19.50
16	堵转转矩	Stall torque	mNm	295.4	350.19	338.41	350.13
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	0.29	0.47	0.83	1.85
18	电机感抗	Terminal inductance	mH	0.023	0.042	0.072	0.180
19	转矩常数	Torque constant	mNm/A	7.10	9.30	11.87	18.22
20	转速常数	Speed constant	rpm/V	1333	1017	796	517
21	转数/转矩常数	Speed/torque constant	rpm/mNm	54.2	52.3	56.4	53.1
22	机械时间常数	Mechanical time constant	ms	4.40	4.25	4.59	4.32
23	转子惯量	Rotor inertia	gcm ²	7.76	7.76	7.76	7.76
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	129			
27	噪音	Typical noise level	dB	≤50			

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

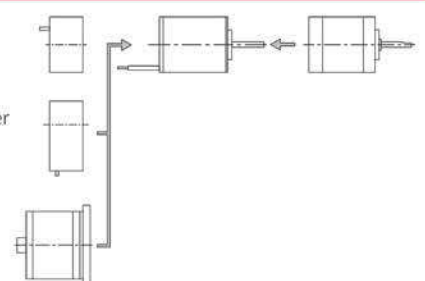
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

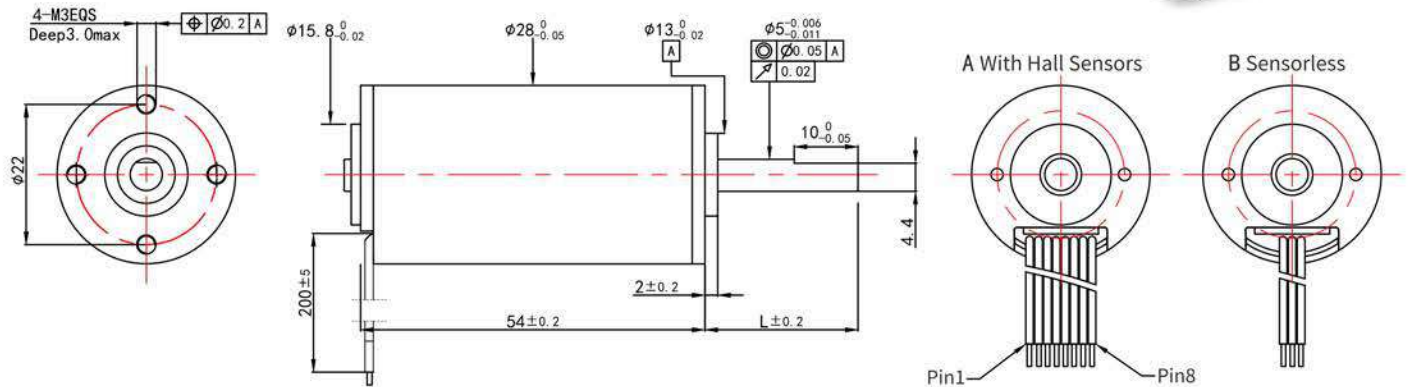
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ28*L54mm, 无刷直流电机, 65-130W

Φ28*L54mm, Brushless DC Motor, 65-130W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定点 At Nominal

				2854	2854	2854	2854
1	额定电压	Nominal voltage	V/DC	12	18	24	36
2	额定转速	Nominal speed	rpm	14760	14040	13920	13680
3	额定电流	Nominal current	A	4.73	3.00	2.95	1.47
4	额定转矩	Nominal torque	mNm	31.09	31.03	39.63	29.95

空载点 Free Load

5	空载转速	No-load speed	rpm	16400	15600	16000	15200
6	空载电流	No-load current	mA	250	170	160	130

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	85.6	85.1	83.5	81.3
8	转速	Speed	rpm	15252	14508	14720	13832
9	电流	Current	A	3.383	2.153	1.875	1.333
10	转矩	Torque	mNm	21.8	21.72	24.39	26.95

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	133.5	126.7	127.7	119.2
12	转速	Speed	rpm	8200	7800	8000	7600
13	电流	Current	A	22.6	14.3	10.9	6.8
14	转矩	Torque	mNm	155.5	155.14	152.42	149.74

堵转点 At Stall

15	堵转电流	Stall current	A	45.00	28.50	21.60	13.50
16	堵转转矩	Stall torque	mNm	310.9	310.29	304.83	299.47

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.27	0.63	1.11	2.67
18	电机感抗	Terminal inductance	mH	0.041	0.102	0.168	0.398
19	转矩常数	Torque constant	mNm/A	6.95	10.95	14.22	22.40
20	转速常数	Speed constant	rpm/V	1366.7	866.7	666.7	422.2
21	转数/转矩常数	Speed/torque constant	rpm/mNm	52.7	50.3	52.5	50.8
22	机械时间常数	Mechanical time constant	ms	4.82	4.60	4.80	4.64
23	转子惯量	Rotor inertia	gcm ²	8.73	8.73	8.73	8.73
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	151			
27	噪音	Typical noise level	dB	≤50			

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

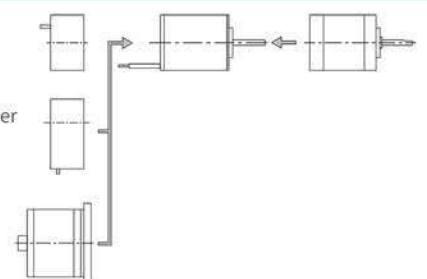
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

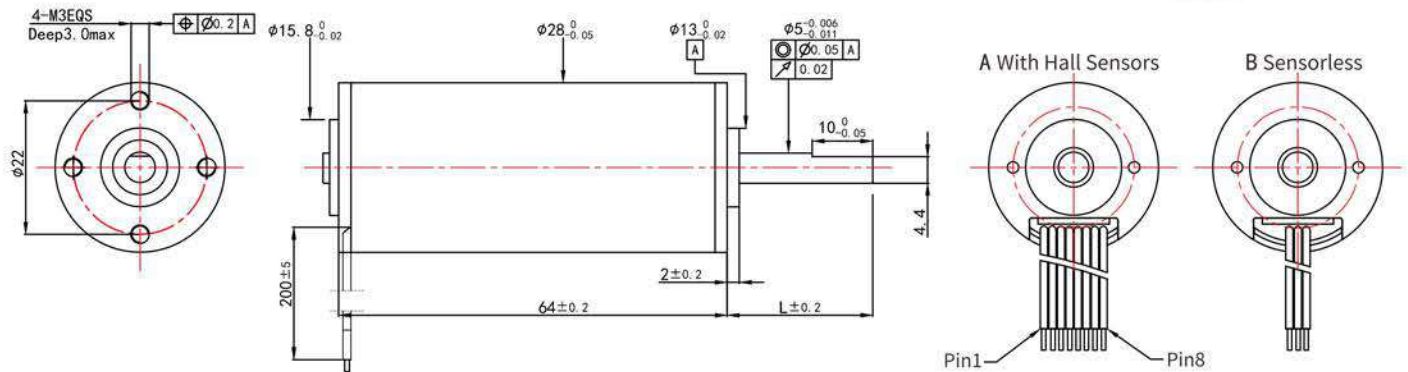
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ28*L64mm, 无刷直流电机, 110-280W

Φ28*L64mm, Brushless DC Motor, 110-280W



电机参数 Motor Data

电机型号 Motor Model				2864	2864	2864	2864
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	12	24	36	48
2	额定转速	Nominal speed	rpm	17550	18450	18720	17820
3	额定电流	Nominal current	A	8.16	4.85	3.50	2.36
4	额定转矩	Nominal torque	mNm	45.37	50.80	51.80	50.10
空载点 Free Load							
5	空载转速	No-load speed	rpm	19500	20500	20800	19800
6	空载电流	No-load current	mA	400	280	330	180
最大效率点 At Max. Efficiency							
7	最大效率	Max. efficiency	%	86.2	85.0	80.7	82.7
8	转速	Speed	rpm	18233	19065	18928	18117
9	电流	Current	A	5.444	3.480	3.180	2.035
10	转矩	Torque	mNm	29.5	35.6	46.62	42.58
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	231.6	272.7	282.1	259.7
12	转速	Speed	rpm	9750	10250	10400	9900
13	电流	Current	A	39.2	23.1	16.2	11.1
14	转矩	Torque	mNm	226.8	254.0	259.02	250.5
堵转点 At Stall							
15	堵转电流	Stall current	A	78.00	46.00	32.00	22.00
16	堵转转矩	Stall torque	mNm	453.7	508.0	518.03	501.00
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	0.15	0.52	1.13	2.18
18	电机感抗	Terminal inductance	mH	0.031	0.118	0.250	0.475
19	转矩常数	Torque constant	mNm/A	5.85	11.11	16.36	22.96
20	转速常数	Speed constant	rpm/V	1625.0	854.2	577.8	412.5
21	转数/转矩常数	Speed/torque constant	rpm/mNm	43.0	40.4	40.2	39.5
22	机械时间常数	Mechanical time constant	ms	4.58	4.30	4.28	4.22
23	转子惯量	Rotor inertia	gcm ²	10.19	10.19	10.19	10.19
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	200			
27	噪音	Typical noise level	dB	≤50			

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

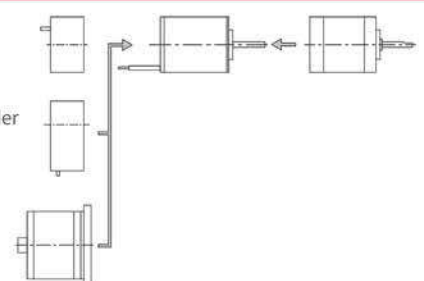
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

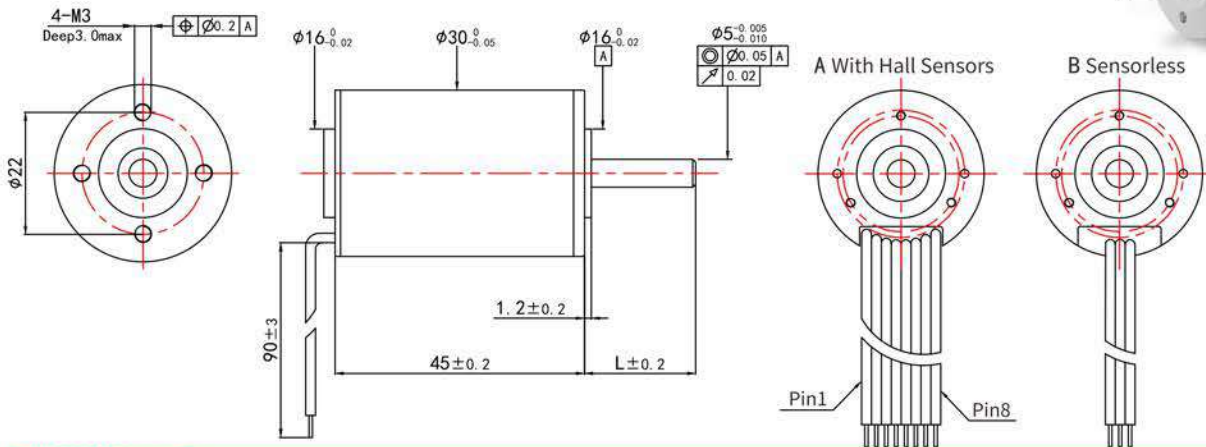
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ30*L45mm, 无刷直流电机, 80-170W

Φ30*L45mm, Brushless DC Motor, 80-170W



电机参数 Motor Data				3045	3045	3045	3045
电机型号 Motor Model				3045	3045	3045	3045
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	12	18	24	36
2	额定转速	Nominal speed	rpm	16544	17835	16965	15540
3	额定电流	Nominal current	A	7.20	5.33	4.01	3.25
4	额定转矩	Nominal torque	mNm	40.16	40.45	41.51	52.94
空载点 Free Load							
5	空载转速	No-load speed	rpm	18800	20500	19500	18500
6	空载电流	No-load current	mA	550	450	420	350
最大效率点 At Max. Efficiency							
7	最大效率	Max. efficiency	%	81.2	79.4	77.0	74.4
8	转速	Speed	rpm	17108	18450	17355	16280
9	电流	Current	A	5.541	4.205	3.454	2.528
10	转矩	Torque	mNm	30.1	31.11	35.12	39.71
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	164.7	167.0	163.0	160.3
12	转速	Speed	rpm	9400	10250	9750	9250
13	电流	Current	A	28.3	19.2	14.2	9.4
14	转矩	Torque	mNm	167.3	155.56	159.64	165.45
堵转点 At Stall							
15	堵转电流	Stall current	A	56.00	38.00	28.00	18.50
16	堵转转矩	Stall torque	mNm	334.7	311.12	319.29	330.89
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	0.21	0.47	0.86	1.95
18	电机感抗	Terminal inductance	mH	0.025	0.052	0.097	0.230
19	转矩常数	Torque constant	mNm/A	6.04	8.29	11.58	18.23
20	转速常数	Speed constant	rpm/V	1566.7	1138.9	812.5	513.9
21	转数/转矩常数	Speed/torque constant	rpm/mNm	56.2	65.9	61.1	55.9
22	机械时间常数	Mechanical time constant	ms	6.94	8.14	7.55	6.91
23	转子惯量	Rotor inertia	gcm ²	11.80	11.80	11.80	11.80
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	145			
27	噪音	Typical noise level	dB	≤50			

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

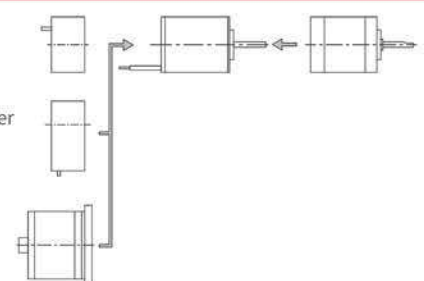
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

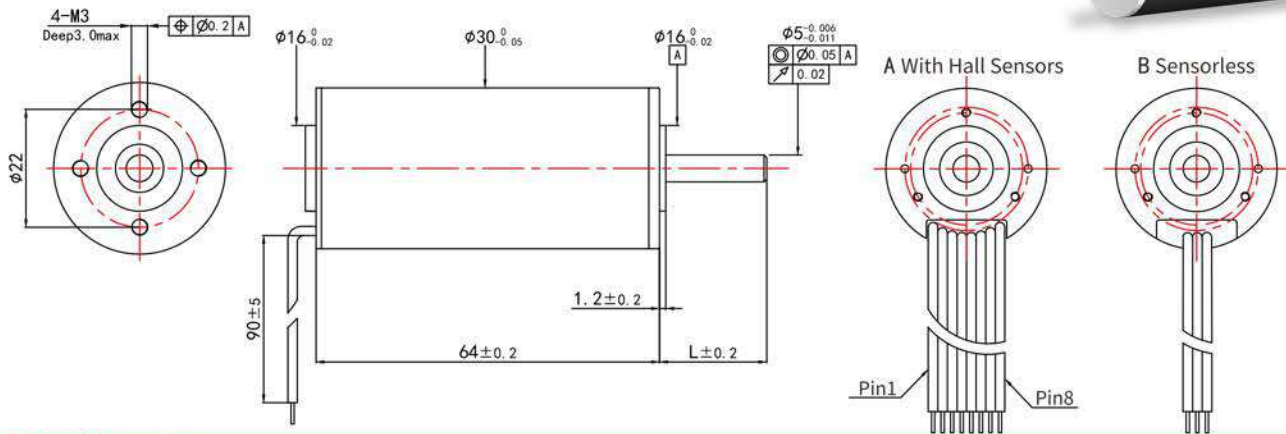
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ30*L64mm, 无刷直流电机, 140-310W

Φ30*L64mm, Brushless DC Motor, 140-310W



电机参数 Motor Data				
电机型号 Motor Model		3064	3064	3064
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	14028
3	额定电流	Nominal current	A	9.48
4	额定转矩	Nominal torque	mNm	65.60
空载点 Free Load				
5	空载转速	No-load speed	rpm	15500
6	空载电流	No-load current	mA	550
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	85.3
8	转速	Speed	rpm	14415
9	电流	Current	A	7.127
10	转矩	Torque	mNm	48.3
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	280.2
12	转速	Speed	rpm	7750
13	电流	Current	A	47.5
14	转矩	Torque	mNm	345.3
堵转点 At Stall				
15	堵转电流	Stall current	A	94.50
16	堵转转矩	Stall torque	mNm	690.5
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	0.13
18	电机感抗	Terminal inductance	mH	0.024
19	转矩常数	Torque constant	mNm/A	7.35
20	转速常数	Speed constant	rpm/V	1291.7
21	转数/转矩常数	Speed/torque constant	rpm/mNm	22.4
22	机械时间常数	Mechanical time constant	ms	4.54
23	转子惯量	Rotor inertia	gcm ²	19.32
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	220.2
27	噪音	Typical noise level	dB	≤45

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

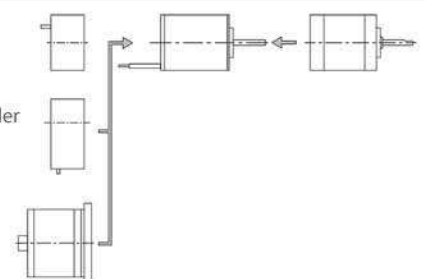
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake

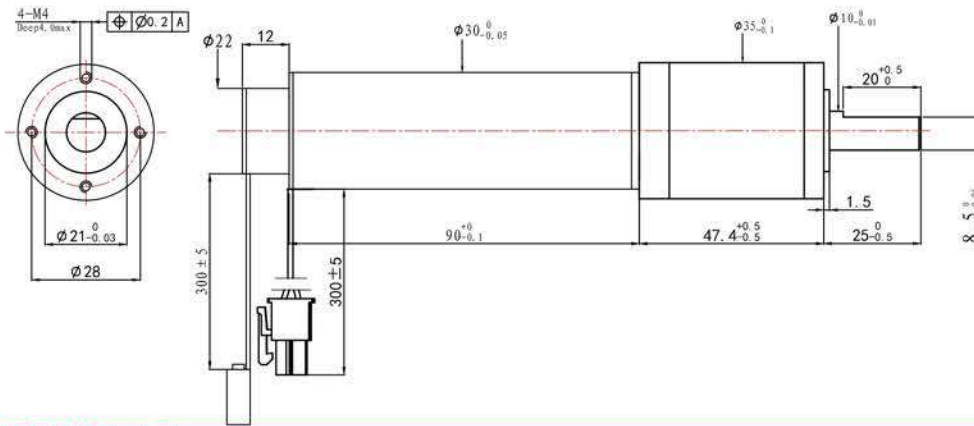
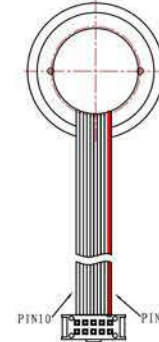


Φ30*L90mm, 无刷直流电机, 250-710W

Φ30*L90mm, Brushless DC Motor, 250-710W



With Hall Sensors



电机参数 Motor Data				3090	3090	3090	3090
电机型号 Motor Model				3090	3090	3090	3090
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	12	24	36	48
2	额定转速	Nominal speed	rpm	17480	18655	19110	19140
3	额定电流	Nominal current	A	13.80	10.52	7.26	8.13
4	额定转矩	Nominal torque	mNm	78.99	111.73	110.62	160.46
空载点 Free Load							
5	空载转速	No-load speed	rpm	19000	20500	21000	22000
6	空载电流	No-load current	mA	650	480	460	380
最大效率点 At Max. Efficiency							
7	最大效率	Max. efficiency	%	87.8	87.3	85.0	84.7
8	转速	Speed	rpm	17860	19168	19530	20350
9	电流	Current	A	10.511	7.729	5.748	4.852
10	转矩	Torque	mNm	59.2	80.69	86.04	92.57
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	491.1	666.3	675.7	710.9
12	转速	Speed	rpm	9500	10250	10500	11000
13	电流	Current	A	82.8	56.2	38.2	30.2
14	转矩	Torque	mNm	493.7	620.71	614.56	617.15
堵转点 At Stall							
15	堵转电流	Stall current	A	165	112	76	60
16	堵转转矩	Stall torque	mNm	987.3	1241.41	1229.12	1234.31
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	0.07	0.21	0.47	0.80
18	电机感抗	Terminal inductance	mH	0.015	0.056	0.122	0.210
19	转矩常数	Torque constant	mNm/A	6.01	11.13	16.27	20.70
20	转速常数	Speed constant	rpm/V	1583.3	854.2	583.3	458.3
21	转数/转矩常数	Speed/torque constant	rpm/mNm	19.2	16.5	17.1	17.8
22	机械时间常数	Mechanical time constant	ms	5.66	4.86	5.03	5.24
23	转子惯量	Rotor inertia	gcm ²	28.10	28.10	28.10	28.10
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	292			
27	噪音	Typical noise level	dB	≤45			

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

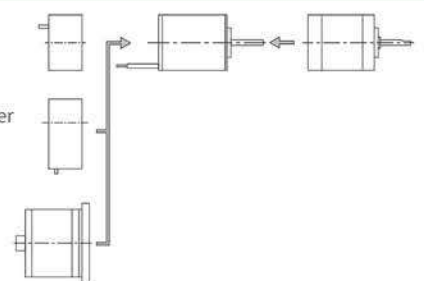
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

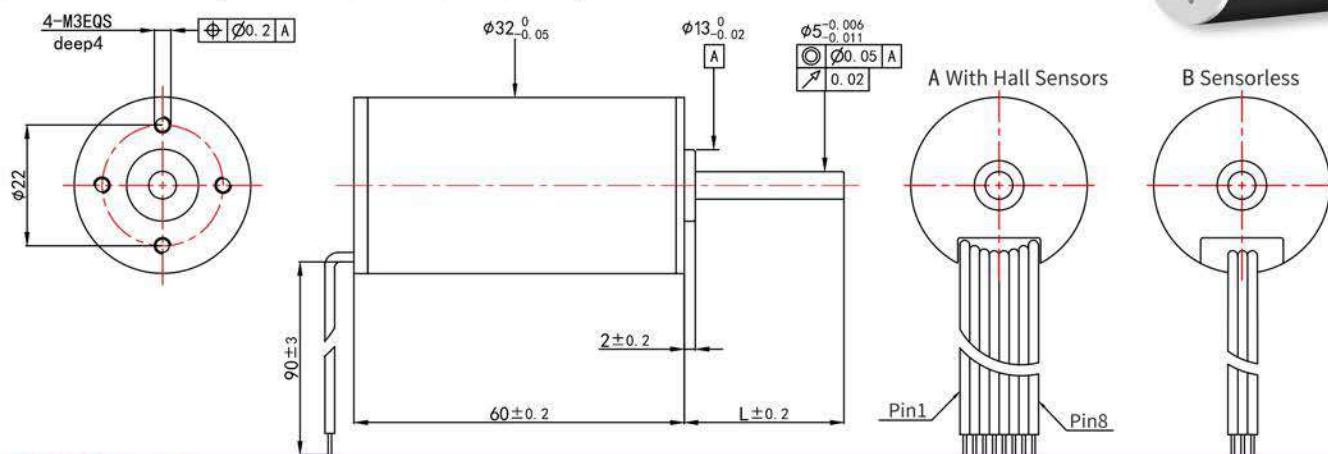
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



$\phi 32 \times L60\text{mm}$, 无刷直流电机, 30-70W

$\phi 32 \times L60\text{mm}$, Brushless DC Motor, 30-70W



电机参数 Motor Data				
电机型号 Motor Model		3260	3260	3260
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压 Nominal voltage	V/DC	12	24
2	额定转速 Nominal speed	rpm	5964	6132
3	额定电流 Nominal current	A	3.52	1.99
4	额定转矩 Nominal torque	mNm	49.70	56.32
空载点 Free Load				
5	空载转速 No-load speed	rpm	7100	7300
6	空载电流 No-load current	mA	380	170
最大效率点 At Max. Efficiency				
7	最大效率 Max. efficiency	%	74.3	77.2
8	转速 Speed	rpm	6284	6497
9	电流 Current	A	2.636	1.422
10	转矩 Torque	mNm	35.7	38.72
最大输出功率点 At Max. Output power				
11	最大功率 Max. output power	W	57.7	67.3
12	转速 Speed	rpm	3550	3650
13	电流 Current	A	10.2	5.9
14	转矩 Torque	mNm	155.3	176.01
堵转点 At Stall				
15	堵转电流 Stall current	A	20.00	11.55
16	堵转转矩 Stall torque	mNm	310.6	352.02
电机常数 Motor Constants				
17	电机阻抗 Terminal resistance	Ω	0.60	2.08
18	电机感抗 Terminal inductance	mH	0.124	0.490
19	转矩常数 Torque constant	mNm/A	15.83	30.93
20	转速常数 Speed constant	rpm/V	591.7	304.2
21	转数/转矩常数 Speed/torque constant	rpm/mNm	22.9	20.7
22	机械时间常数 Mechanical time constant	ms	4.80	4.36
23	转子惯量 Rotor inertia	gcm^2	20.07	20.07
24	极对数 Number of pole pairs		1	
25	相数 Number of phase		3	
26	重量 Weight of motor	g	270	
27	噪音 Typical noise level	dB	≤ 50	

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4- V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

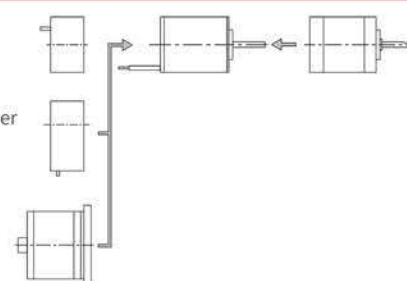
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: $\leq 0.015\text{mm}$
 环境温度范围 Ambient temperature range: -20°C ~ $+80^{\circ}\text{C}$
 相对湿度范围 Relative humidity range: $<90\%$ (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

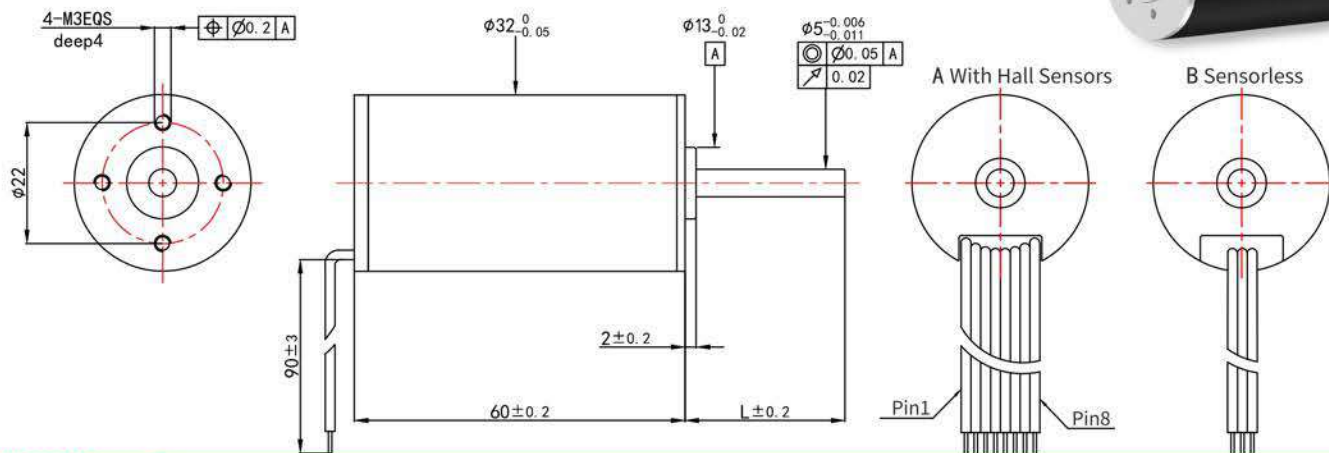
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ32*L60mm, 无刷直流电机, 65-200W, 高速

Φ32*L60mm, Brushless DC Motor, 65-200W, High speed



电机参数 Motor Data				3260	3260	3260	3260	3260
电机型号 Motor Model				3260	3260	3260	3260	3260
额定电压参数值 Value at Rated voltage								
额定点 At Nominal								
1	额定电压	Nominal voltage	V/DC	12	18	24	36	48
2	额定转速	Nominal speed	rpm	13795	15842	15931	14685	16465
3	额定电流	Nominal current	A	5.73	4.85	4.07	2.60	2.14
4	额定转矩	Nominal torque	mNm	36.20	41.43	43.34	45.21	44.71
空载点 Free Load								
5	空载转速	No-load speed	rpm	15500	17800	17900	16500	18500
6	空载电流	No-load current	mA	750	500	620	390	300
最大效率点 At Max. Efficiency								
7	最大效率	Max. efficiency	%	76.1	78.9	74.1	74.3	75.2
8	转速	Speed	rpm	13950	16020	15752	14520	16373
9	电流	Current	A	5.275	4.450	4.386	2.803	2.221
10	转矩	Torque	mNm	32.9	37.67	47.28	49.32	46.74
最大输出功率点 At Max. Output power								
11	最大功率	Max. output power	W	133.5	175.5	184.6	177.5	197
12	转速	Speed	rpm	7750	8900	8950	8250	9250
13	电流	Current	A	23.4	20.3	16.3	10.4	9
14	转矩	Torque	mNm	164.5	188.33	197.00	205.51	203.23
堵转点 At Stall								
15	堵转电流	Stall current	A	46.00	40.00	32.00	20.50	17.0
16	堵转转矩	Stall torque	mNm	329.1	376.67	393.99	411.02	406.47
电机常数 Motor Constants								
17	电机阻抗	Terminal resistance	Ω	0.26	0.45	0.75	1.76	2.8
18	电机感抗	Terminal inductance	mH	0.033	0.079	0.119	0.295	0.463
19	转矩常数	Torque constant	mNm/A	7.27	9.54	12.56	20.44	24.3
20	转速常数	Speed constant	rpm/V	1291.7	988.9	745.8	458.3	385.4
21	转数/转矩常数	Speed/torque constant	rpm/mNm	47.1	47.3	45.4	40.1	45.5
22	机械时间常数	Mechanical time constant	ms	9.68	9.71	9.34	8.25	9.36
23	转子惯量	Rotor inertia	gcm ²	19.63	19.63	19.63	19.63	19.63
24	极对数	Number of pole pairs		1				
25	相数	Number of phase		3				
26	重量	Weight of motor	g	248				
27	噪音	Typical noise level	dB	≤50				

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

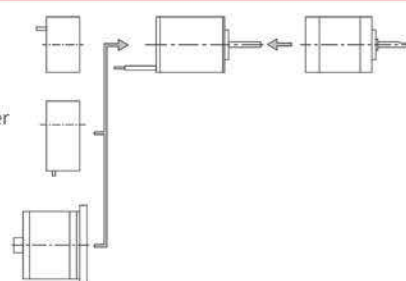
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

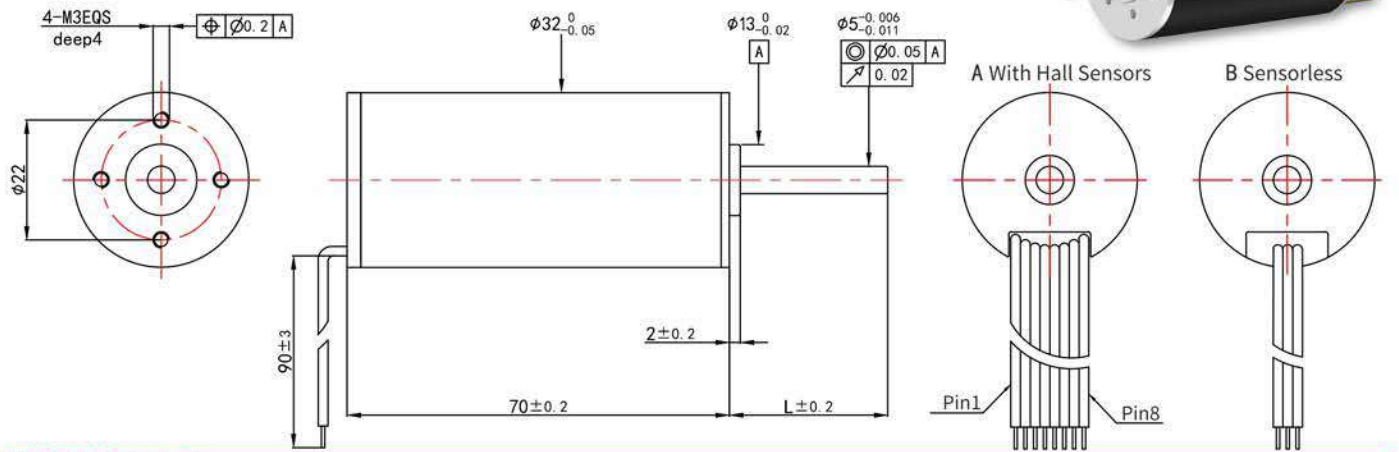
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ32*L70mm, 无刷直流电机, 150-520W

Φ32*L70mm, Brushless DC Motor, 150-520W



电机参数 Motor Data				3270	3270	3270	3270	3270
电机型号 Motor Model				3270	3270	3270	3270	3270
额定电压参数值 Value at Rated voltage								
额定点 At Nominal								
1	额定电压	Nominal voltage	V/DC	12	18	24	36	48
2	额定转速	Nominal speed	rpm	11313	13394	11520	14480	12000
3	额定电流	Nominal current	A	9.61	9.83	15.36	5.85	8.66
4	额定转矩	Nominal torque	mNm	81.61	106.85	235.88	116.84	254.62
空载点 Free Load								
5	空载转速	No-load speed	rpm	12500	14800	14400	16000	15000
6	空载电流	No-load current	mA	650	580	450	380	270
最大效率点 At Max. Efficiency								
7	最大效率	Max. efficiency	%	84.1	85.2	85.1	84.5	84.6
8	转速	Speed	rpm	11563	13764	13320	14800	13875
9	电流	Current	A	7.726	7.399	6.041	4.702	3.415
10	转矩	Torque	mNm	64.4	78.73	88.45	92.24	95.48
最大输出功率点 At Max. Output power								
11	最大功率	Max. output power	W	281.1	435.8	444.6	515.2	500
12	转速	Speed	rpm	6250	7400	7200	8000	7500
13	电流	Current	A	47.8	49.3	37.7	29.2	21
14	转矩	Torque	mNm	429.5	562.37	589.69	614.95	636.54
堵转点 At Stall								
15	堵转电流	Stall current	A	95.00	98.00	75.00	58.00	42.20
16	堵转转矩	Stall torque	mNm	859.0	1124.74	1179.38	1229.91	1273.09
电机常数 Motor Constants								
17	电机阻抗	Terminal resistance	Ω	0.13	0.18	0.32	0.62	1.1
18	电机感抗	Terminal inductance	mH	0.019	0.034	0.065	0.127	0.241
19	转矩常数	Torque constant	mNm/A	9.10	11.55	15.82	21.35	30.4
20	转速常数	Speed constant	rpm/V	1041.7	822.2	600.0	444.4	312.5
21	转数/转矩常数	Speed/torque constant	rpm/mNm	14.6	13.2	12.2	13.0	11.8
22	机械时间常数	Mechanical time constant	ms	3.86	3.49	3.24	3.45	3.12
23	转子惯量	Rotor inertia	gcm ²	25.30	25.30	25.30	25.30	25.30
24	极对数	Number of pole pairs		1				
25	相数	Number of phase		3				
26	重量	Weight of motor	g	276.8				
27	噪音	Typical noise level	dB	≤45				

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

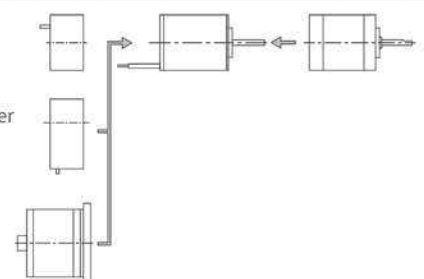
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

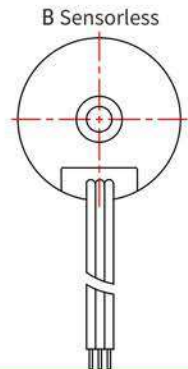
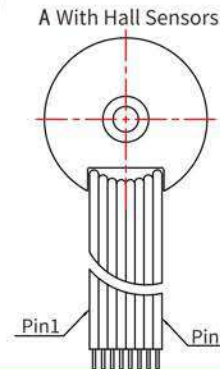
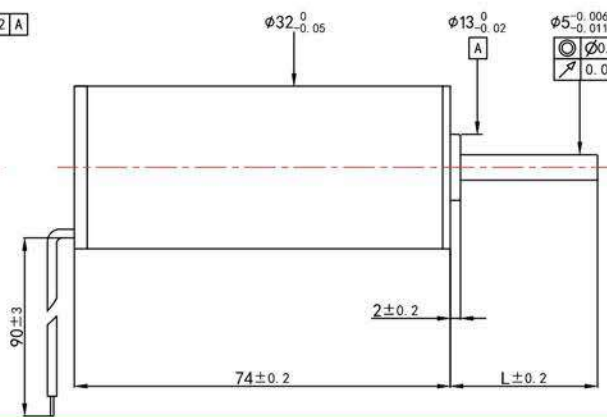
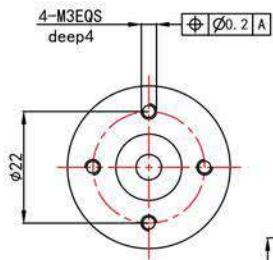
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ32*L74mm, 无刷直流电机, 190-450W

Φ32*L74mm, Brushless DC Motor, 190-450W



电机参数 Motor Data				
电机型号 Motor Model				
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	10920
3	额定电流	Nominal current	A	11.99
4	额定转矩	Nominal torque	mNm	109.12
空载点 Free Load				
5	空载转速	No-load speed	rpm	12000
6	空载电流	No-load current	mA	520
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	87.7
8	转速	Speed	rpm	11280
9	电流	Current	A	8.169
10	转矩	Torque	mNm	72.7
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	380.9
12	转速	Speed	rpm	6000
13	电流	Current	A	64.3
14	转矩	Torque	mNm	606.2
堵转点 At Stall				
15	堵转电流	Stall current	A	128.00
16	堵转转矩	Stall torque	mNm	1212.4
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	0.09
18	电机感抗	Terminal inductance	mH	0.030
19	转矩常数	Torque constant	mNm/A	9.51
20	转速常数	Speed constant	rpm/V	1000.0
21	转数/转矩常数	Speed/torque constant	rpm/mNm	9.9
22	机械时间常数	Mechanical time constant	ms	2.71
23	转子惯量	Rotor inertia	gcm ²	26.18
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	286
27	噪音	Typical noise level	dB	≤45

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

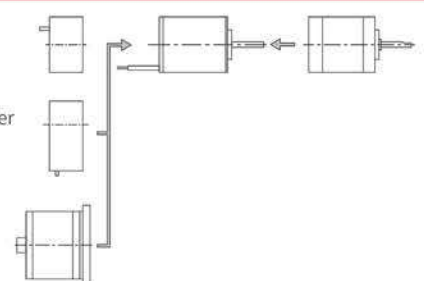
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

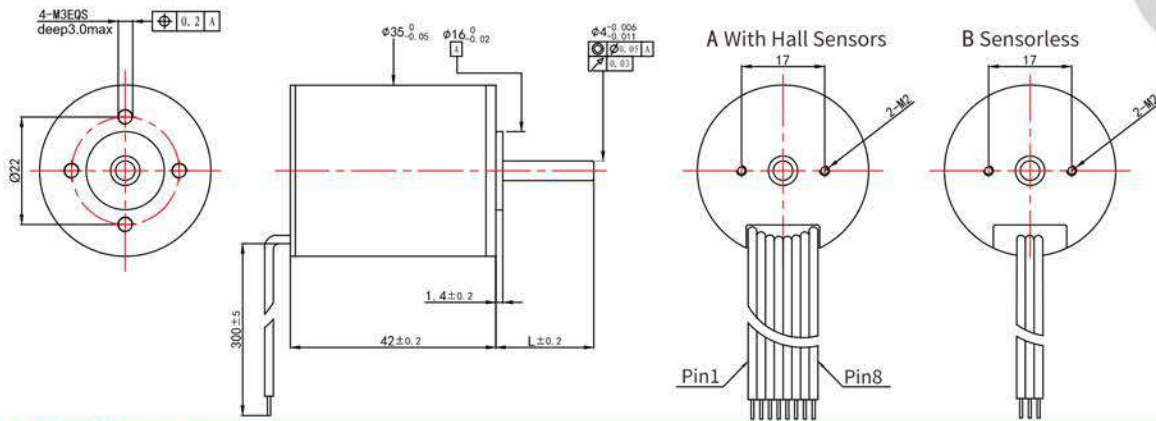
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ35*L42mm, 无刷直流电机, 20-45W

Φ35*L42mm, Brushless DC Motor, 20-45W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定点 At Nominal

				3542	3542	3542	3542
1	额定电压	Nominal voltage	V/DC	12	18	24	36
2	额定转速	Nominal speed	rpm	4868	5610	5412	5115
3	额定电流	Nominal current	A	3.11	2.02	1.55	1.01
4	额定转矩	Nominal torque	mNm	51.83	41.36	42.62	42.78

空载点 Free Load

5	空载转速	No-load speed	rpm	5900	6800	6560	6200
6	空载电流	No-load current	mA	380	330	280	200

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	71.6	67.0	65.1	63.3
8	转速	Speed	rpm	4986	5746	5510	5146
9	电流	Current	A	2.801	1.829	1.438	0.982
10	转矩	Torque	mNm	45.9	36.64	38.96	39.11

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	45.7	42.1	41.8	39.7
12	转速	Speed	rpm	2950	3400	3280	3100
13	电流	Current	A	8.2	5.2	3.9	2.5
14	转矩	Torque	mNm	148.1	118.18	121.76	122.22

堵转点 At Stall

15	堵转电流	Stall current	A	16.00	10.00	7.52	4.80
16	堵转转矩	Stall torque	mNm	296.2	236.37	243.52	244.43

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.75	1.80	3.19	7.50
18	电机感抗	Terminal inductance	mH	0.190	0.385	0.680	1.575
19	转矩常数	Torque constant	mNm/A	18.96	24.44	33.64	53.14
20	转速常数	Speed constant	rpm/V	491.7	377.8	273.3	172.2
21	转数/转矩常数	Speed/torque constant	rpm/mNm	19.9	28.8	26.9	25.4
22	机械时间常数	Mechanical time constant	ms	3.19	4.61	4.32	4.06
23	转子惯量	Rotor inertia	gcm ²	15.30	15.30	15.30	15.30
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	188.6			
27	噪音	Typical noise level	dB	≤45			

电机线序(Motor wire sequence):

·无传感器 (Without sensor) : 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器 (With sensor) : 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

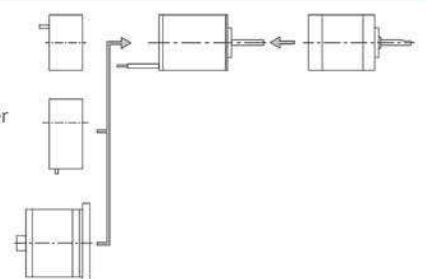
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

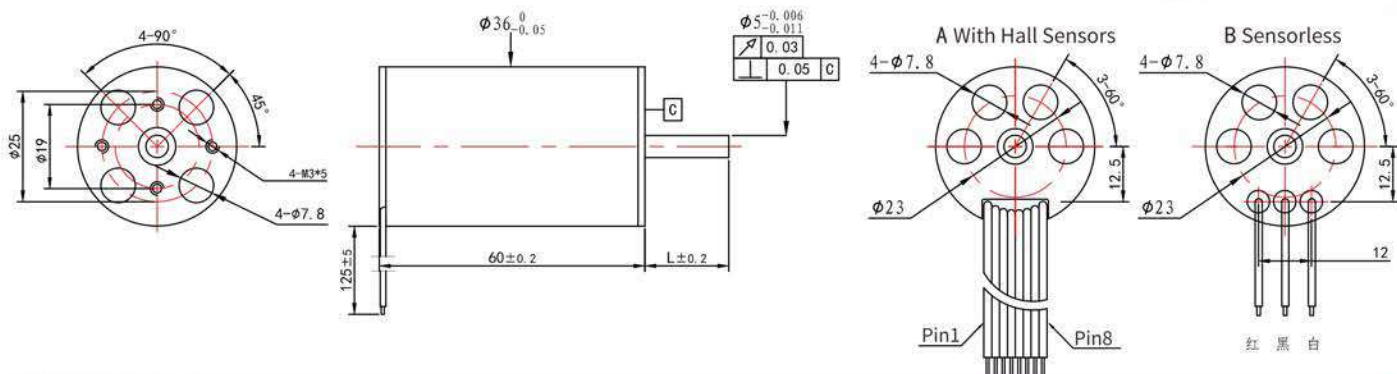
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ36*L60mm, 无刷直流电机, 30-70W

Φ36*L60mm, Brushless DC Motor, 30-70W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定点 At Nominal

1	额定电压	Nominal voltage	V/DC	12	24	36
2	额定转速	Nominal speed	rpm	4463	4930	5100
3	额定电流	Nominal current	A	3.24	1.93	1.30
4	额定转矩	Nominal torque	mNm	64.12	69.36	66.71

空载点 Free Load

5	空载转速	No-load speed	rpm	5250	5800	6000
6	空载电流	No-load current	mA	260	150	120

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	78.5	78.9	77.0
8	转速	Speed	rpm	4725	5220	5340
9	电流	Current	A	2.244	1.335	0.987
10	转矩	Torque	mNm	42.7	46.24	48.92

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	58.8	70.2	69.9
12	转速	Speed	rpm	2625	2900	3000
13	电流	Current	A	10.2	6.1	4.1
14	转矩	Torque	mNm	213.7	231.20	222.36

堵转点 At Stall

15	堵转电流	Stall current	A	20.10	12.00	8.00
16	堵转转矩	Stall torque	mNm	427.4	462.39	444.72

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.60	2.00	4.50
18	电机感抗	Terminal inductance	mH	0.260	0.945	2.055
19	转矩常数	Torque constant	mNm/A	21.54	39.02	56.44
20	转速常数	Speed constant	rpm/V	437.5	241.7	166.7
21	转数/转矩常数	Speed/torque constant	rpm/mNm	12.3	12.5	13.5
22	机械时间常数	Mechanical time constant	ms	4.44	4.54	4.88
23	转子惯量	Rotor inertia	gcm ²	34.53	34.53	34.53
24	极对数	Number of pole pairs	1			
25	相数	Number of phase	3			
26	重量	Weight of motor	g	269		
27	噪音	Typical noise level	dB	≤45		

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

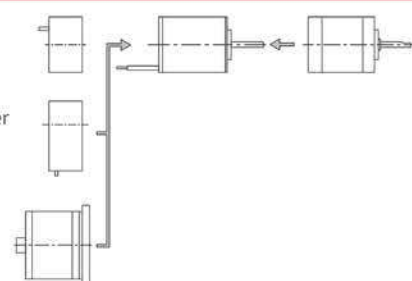
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

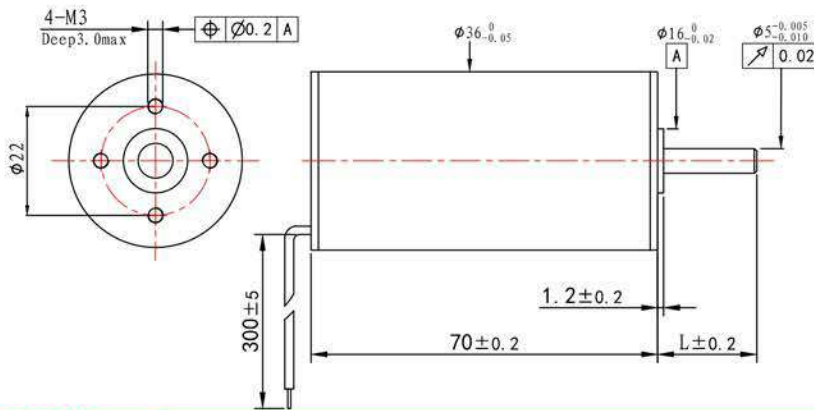
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake

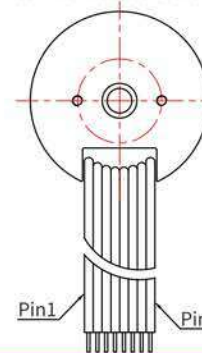


Φ36*L70mm, 无刷直流电机, 140-310W

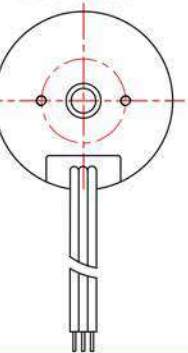
Φ36*L70mm, Brushless DC Motor, 140-310W



A With Hall Sensors



B Sensorless



电机参数 Motor Data						
电机型号 Motor Model			3670	3670	3670	
额定电压参数值 Value at Rated voltage						
额定点 At Nominal						
1	额定电压	Nominal voltage	V/DC	12	24	36
2	额定转速	Nominal speed	rpm	13350	11214	8544
3	额定电流	Nominal current	A	11.43	5.68	4.03
4	额定转矩	Nominal torque	mNm	80.09	94.25	136.30
空载点 Free Load						
5	空载转速	No-load speed	rpm	15000	12600	9600
6	空载电流	No-load current	mA	850	450	200
最大效率点 At Max. Efficiency						
7	最大效率	Max. efficiency	%	82.2	81.6	85.5
8	转速	Speed	rpm	13725	11466	8928
9	电流	Current	A	9.023	4.730	2.636
10	转矩	Torque	mNm	61.9	77.11	86.73
最大输出功率点 At Max. Output power						
11	最大功率	Max. output power	W	285.9	282.6	311.4
12	转速	Speed	rpm	7500	6300	4800
13	电流	Current	A	48.9	24.2	17.6
14	转矩	Torque	mNm	364.0	428.39	619.53
堵转点 At Stall						
15	堵转电流	Stall current	A	97.0	48.0	35.0
16	堵转转矩	Stall torque	mNm	728.1	856.79	1239.06
电机常数 Motor Constants						
17	电机阻抗	Terminal resistance	Ω	0.12	0.50	1.03
18	电机感抗	Terminal inductance	mH	0.029	0.145	0.385
19	转矩常数	Torque constant	mNm/A	7.57	18.02	35.61
20	转速常数	Speed constant	rpm/V	1250.0	525.0	266.7
21	转数/转矩常数	Speed/torque constant	rpm/mNm	20.6	14.7	7.7
22	机械时间常数	Mechanical time constant	ms	9.41	6.71	3.54
23	转子惯量	Rotor inertia	gcm ²	43.60	43.60	43.60
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	326.8		
27	噪音	Typical noise level	dB	≤50		

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

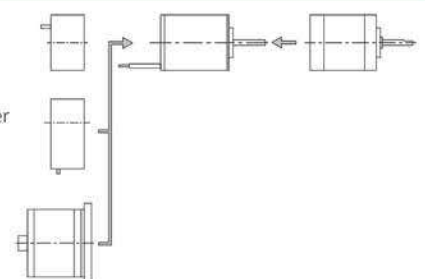
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

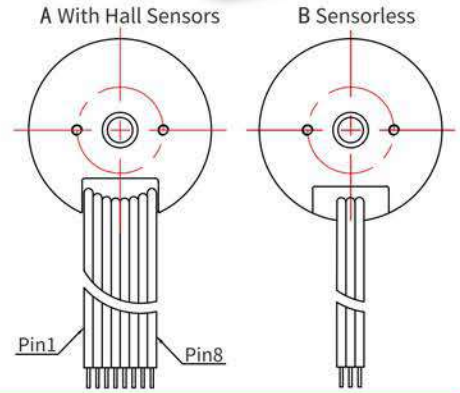
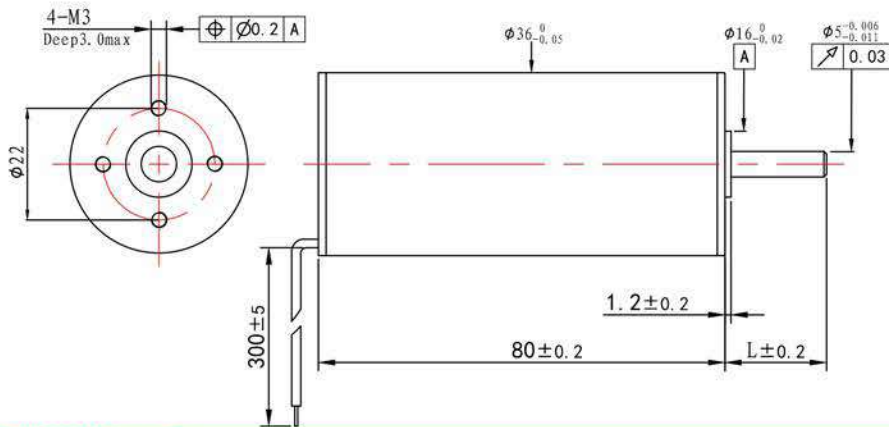
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ36*L80mm, 无刷直流电机, 100-260W

Φ36*L80mm, Brushless DC Motor, 100-260W



电机参数 Motor Data				
电机型号 Motor Model				
额定电压参数值 Value at Rated voltage				
额定点 At Nominal				
1	额定电压	Nominal voltage	V/DC	12
2	额定转速	Nominal speed	rpm	6802
3	额定电流	Nominal current	A	7.59
4	额定转矩	Nominal torque	mNm	106.08
空载点 Free Load				
5	空载转速	No-load speed	rpm	7600
6	空载电流	No-load current	mA	500
最大效率点 At Max. Efficiency				
7	最大效率	Max. efficiency	%	83.6
8	转速	Speed	rpm	7030
9	电流	Current	A	5.563
10	转矩	Torque	mNm	80.8
最大输出功率点 At Max. Output power				
11	最大功率	Max. output power	W	201.0
12	转速	Speed	rpm	3800
13	电流	Current	A	34.3
14	转矩	Torque	mNm	505.1
堵转点 At Stall				
15	堵转电流	Stall current	A	68.00
16	堵转转矩	Stall torque	mNm	1010.3
电机常数 Motor Constants				
17	电机阻抗	Terminal resistance	Ω	0.18
18	电机感抗	Terminal inductance	mH	0.047
19	转矩常数	Torque constant	mNm/A	14.97
20	转速常数	Speed constant	rpm/V	633.3
21	转数/转矩常数	Speed/torque constant	rpm/mNm	7.5
22	机械时间常数	Mechanical time constant	ms	3.84
23	转子惯量	Rotor inertia	gcm ²	48.75
24	极对数	Number of pole pairs		1
25	相数	Number of phase		3
26	重量	Weight of motor	g	397
27	噪音	Typical noise level	dB	≤45

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

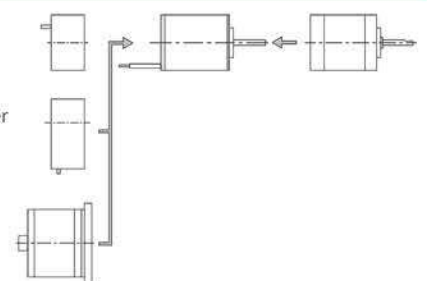
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

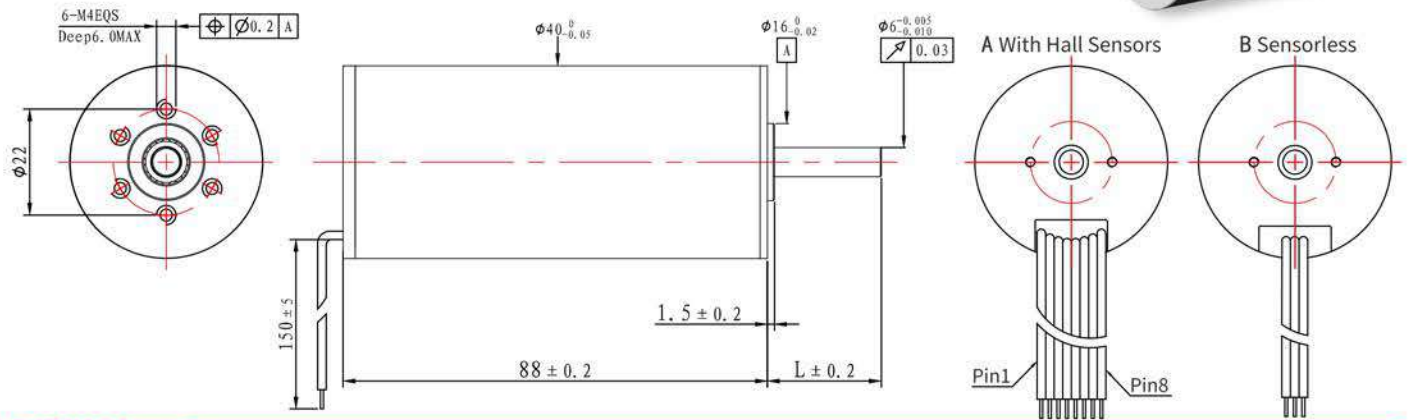
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ40*L88mm, 无刷直流电机, 500-1400W

Φ40*L88mm, Brushless DC Motor, 500-1400W



电机参数 Motor Data

电机型号 Motor Model

4088

4088

4088

额定电压参数值 Value at Rated voltage

额定点 At Nominal

1	额定电压	Nominal voltage	V/DC	24	36	48
2	额定转速	Nominal speed	rpm	12308	11250	15015
3	额定电流	Nominal current	A	17.82	11.56	11.35
4	额定转矩	Nominal torque	mNm	285.61	299.12	297.03

空载点 Free Load

5	空载转速	No-load speed	rpm	13600	12500	16500
6	空载电流	No-load current	mA	800	620	600

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	87.1	85.5	86.4
8	转速	Speed	rpm	12716	11625	15428
9	电流	Current	A	12.448	8.277	8.361
10	转矩	Torque	mNm	195.4	209.38	214.52

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	1070.4	978.9	1425.6
12	转速	Speed	rpm	6800	6250	8250
13	电流	Current	A	90.4	55.3	60.3
14	转矩	Torque	mNm	1503.2	1495.61	1650.16

堵转点 At Stall

15	堵转电流	Stall current	A	180.0	110.0	120.0
16	堵转转矩	Stall torque	mNm	3006.4	2991.21	3300.32

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.13	0.33	0.40
18	电机感抗	Terminal inductance	mH	0.045	0.108	0.147
19	转矩常数	Torque constant	mNm/A	16.78	27.35	27.64
20	转速常数	Speed constant	rpm/V	566.7	347.2	343.8
21	转数/转矩常数	Speed/torque constant	rpm/mNm	4.5	4.2	5.0
22	机械时间常数	Mechanical time constant	ms	4.65	4.29	5.14
23	转子惯量	Rotor inertia	gcm ²	98.10	98.10	98.10
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	554.8		
27	噪音	Typical noise level	dB	≤45		

电机线序(Motor wire sequence):

·无传感器(Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

·有传感器(With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准(Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

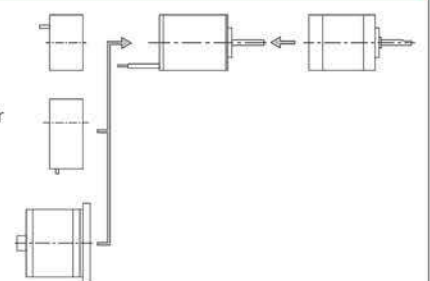
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 ·轴向(动态) Max axial load (dynamic): 0.8N
 ·径向(法兰外5mm) Max radial load (5mm from flange): 8N
 ·最大允许安装力(静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

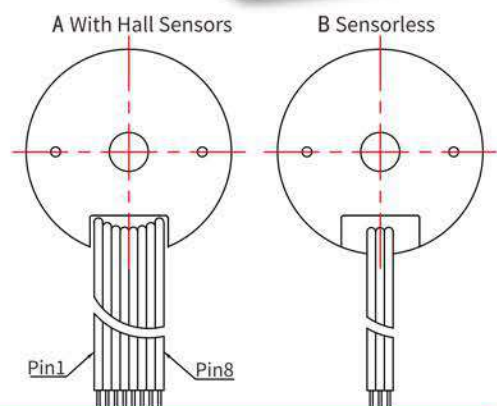
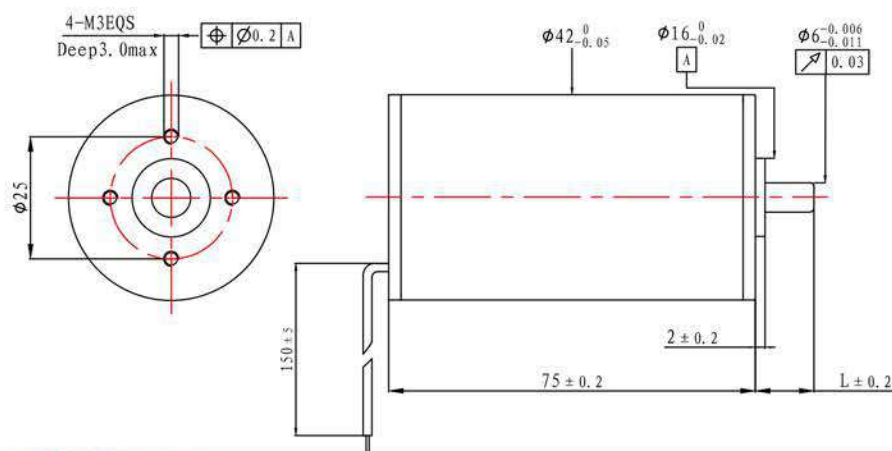
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ42*L75mm, 无刷直流电机, 110-300W

Φ42*L75mm, Brushless DC Motor, 110-300W



电机参数 Motor Data				4275	4275	4275	4275
电机型号 Motor Model				4275	4275	4275	4275
额定电压参数值 Value at Rated voltage							
额定点 At Nominal							
1	额定电压	Nominal voltage	V/DC	12	24	36	48
2	额定转速	Nominal speed	rpm	7560	6438	6688	6090
3	额定电流	Nominal current	A	10.61	6.02	3.82	2.65
4	额定转矩	Nominal torque	mNm	137.92	174.35	160.14	160.39
空载点 Free Load							
5	空载转速	No-load speed	rpm	8400	7400	7600	7000
6	空载电流	No-load current	mA	450	350	250	180
最大效率点 At Max. Efficiency							
7	最大效率	Max. efficiency	%	87.1	83.0	82.6	81.6
8	转速	Speed	rpm	7896	6808	6954	6755
9	电流	Current	A	6.543	3.842	2.779	0.846
10	转矩	Torque	mNm	82.8	107.29	113.43	43.18
最大输出功率点 At Max. Output power							
11	最大功率	Max. output power	W	303.3	259.8	265.5	226.1
12	转速	Speed	rpm	4200	3700	3800	3500
13	电流	Current	A	51.2	22.2	15.1	9.7
14	转矩	Torque	mNm	689.6	670.56	667.24	616.89
堵转点 At Stall							
15	堵转电流	Stall current	A	102.00	44.00	30.00	19.20
16	堵转转矩	Stall torque	mNm	1379.2	1341.12	1334.48	1233.77
电机常数 Motor Constants							
17	电机阻抗	Terminal resistance	Ω	0.12	0.55	1.20	2.50
18	电机感抗	Terminal inductance	mH	0.021	0.086	0.189	0.360
19	转矩常数	Torque constant	mNm/A	13.58	30.72	44.86	64.87
20	转速常数	Speed constant	rpm/V	700.0	308.3	211.1	145.8
21	转数/转矩常数	Speed/torque constant	rpm/mNm	6.1	5.5	5.7	5.7
22	机械时间常数	Mechanical time constant	ms	4.59	4.16	4.29	4.28
23	转子惯量	Rotor inertia	gcm ²	72.00	72.00	72.00	72.00
24	极对数	Number of pole pairs		1			
25	相数	Number of phase		3			
26	重量	Weight of motor	g	493.8			
27	噪音	Typical noise level	dB	≤45			

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

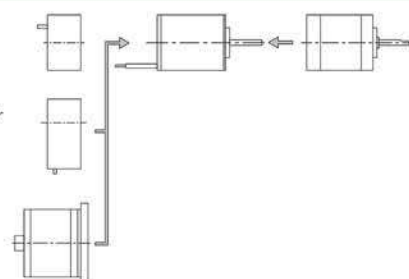
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

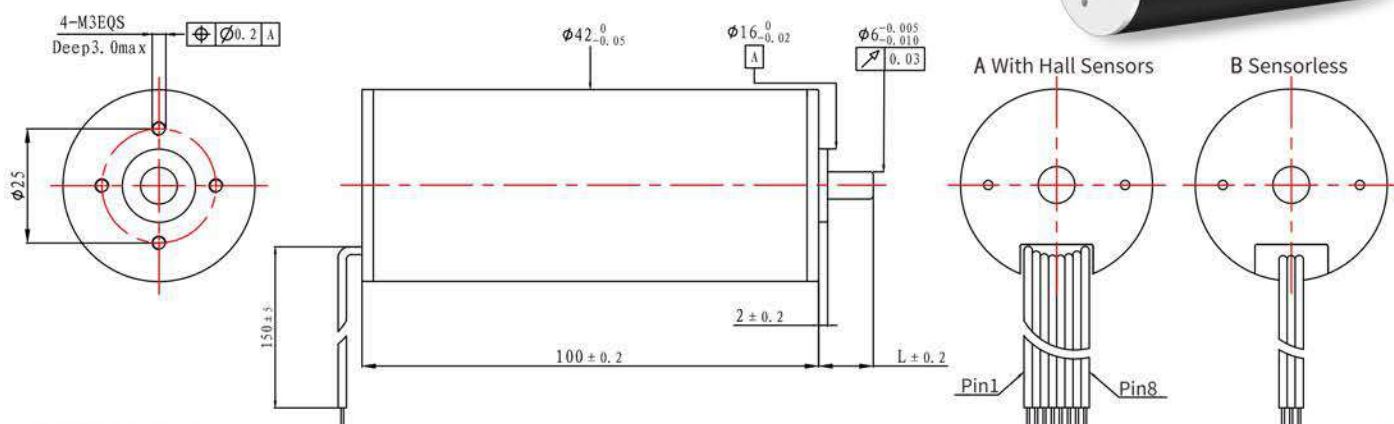
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ42*L100mm, 无刷直流电机, 150-300W

Φ42*L100mm, Brushless DC Motor, 150-300W



电机参数 Motor Data

电机型号 Motor Model				42100	42100	42100
额定电压参数值 Value at Rated voltage						
额定点 At Nominal						
1	额定电压	Nominal voltage	V/DC	24	36	48
2	额定转速	Nominal speed	rpm	6600	6248	6371
3	额定电流	Nominal current	A	6.40	4.15	3.26
4	额定转矩	Nominal torque	mNm	180.06	181.88	185.40
空载点 Free Load						
5	空载转速	No-load speed	rpm	7500	7100	7240
6	空载电流	No-load current	mA	450	350	300
最大效率点 At Max. Efficiency						
7	最大效率	Max. efficiency	%	81.9	80.2	79.3
8	转速	Speed	rpm	6788	6426	6516
9	电流	Current	A	5.157	3.357	2.770
10	转矩	Torque	mNm	142.5	143.99	154.50
最大输出功率点 At Max. Output power						
11	最大功率	Max. output power	W	294.6	281.7	292.8
12	转速	Speed	rpm	3750	3550	3620
13	电流	Current	A	25.2	16.2	12.7
14	转矩	Torque	mNm	750.3	757.85	772.50
堵转点 At Stall						
15	堵转电流	Stall current	A	50.0	32.0	25.0
16	堵转转矩	Stall torque	mNm	1500.5	1515.70	1545.00
电机常数 Motor Constants						
17	电机阻抗	Terminal resistance	Ω	0.48	1.13	1.92
18	电机感抗	Terminal inductance	mH	0.056	0.132	0.230
19	转矩常数	Torque constant	mNm/A	30.28	47.89	62.55
20	转速常数	Speed constant	rpm/V	312.5	197.2	150.8
21	转数/转矩常数	Speed/torque constant	rpm/mNm	5.0	4.7	4.7
22	机械时间常数	Mechanical time constant	ms	5.28	4.95	4.95
23	转子惯量	Rotor inertia	gcm ²	100.83	100.83	100.83
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	632		
27	噪音	Typical noise level	dB	≤45		

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

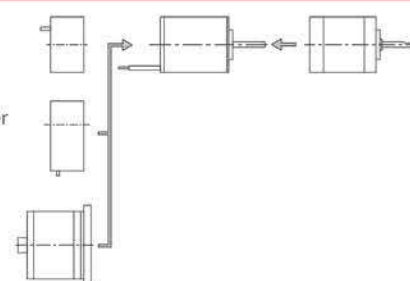
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

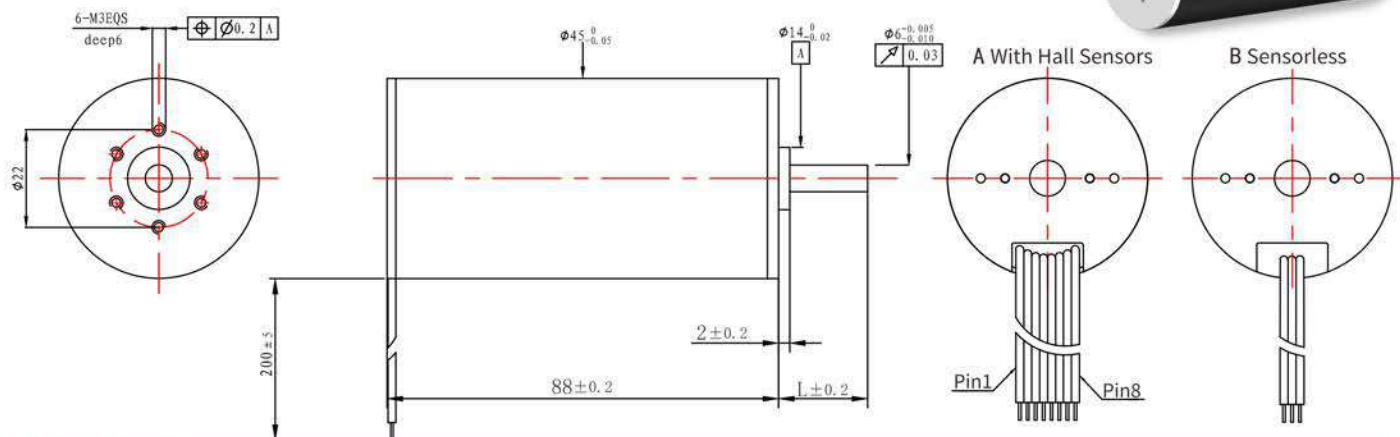
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ45*L88mm, 无刷直流电机, 300-780W

Φ45*L88mm, Brushless DC Motor, 300-780W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定值 At Nominal

				4588	4588	4588	4588	4588
1	额定电压	Nominal voltage	V/DC	12	18	24	36	48
2	额定转速	Nominal speed	rpm	8722	9428	9450	9720	9612
3	额定电流	Nominal current	A	18.93	32.65	10.74	17.01	6.78
4	额定转矩	Nominal torque	mNm	209.97	466.35	220.02	467.08	266.59

空载点 Free Load

5	空载转速	No-load speed	rpm	9800	11640	10500	12000	10800
6	空载电流	No-load current	mA	880	896	600	596	450

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	85.9	85.9	85.2	84.1	83.2
8	转速	Speed	rpm	9016	10825	9765	11160	9936
9	电流	Current	A	14.010	12.593	7.698	6.644	5.054
10	转矩	Torque	mNm	152.7	171.81	154.02	172.08	193.88

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	489.7	748.0	604.8	772.3	685
12	转速	Speed	rpm	4900	5820	5250	6000	5400
13	电流	Current	A	82.9	84.4	51.3	43.8	29
14	转矩	Torque	mNm	954.4	1227.23	1100.12	1229.17	1211.77

堵转点 At Stall

15	堵转电流	Stall current	A	165.00	168.00	102.00	87.00	58.00
16	堵转转矩	Stall torque	mNm	1908.8	2454.46	2200.24	2458.34	2423.55

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.07	0.11	0.24	0.41	0.8
18	电机感抗	Terminal inductance	mH	0.028	0.055	0.106	0.209	0.430
19	转矩常数	Torque constant	mNm/A	11.63	14.69	21.70	28.45	42.1
20	转速常数	Speed constant	rpm/V	816.7	646.7	437.5	333.3	225.0
21	转数/转矩常数	Speed/torque constant	rpm/mNm	5.1	4.7	4.8	4.9	4.5
22	机械时间常数	Mechanical time constant	ms	7.66	7.07	7.12	7.28	6.65
23	转子惯量	Rotor inertia	gcm ²	142.40	142.40	142.40	142.40	142.40
24	极对数	Number of pole pairs		1				
25	相数	Number of phase		3				
26	重量	Weight of motor	g	663				
27	噪音	Typical noise level	dB	≤55				

电机线序 (Motor wire sequence):

· 无传感器 (Without sensor): 1-Motor Phase A 2-Motor Phase B 3-Motor Phase C

· 有传感器 (With sensor): 1-Hall sensor a 2-Hall sensor b 3-Hall sensor c 4-V_{Hall} 3.5...25VDC 5-GND 6-Motor Phase A 7-Motor Phase B 8-Motor Phase C

电缆、连接器、线序可定制, 此处仅作参考, 最终输出端以实物为准 (Cables, connectors, and wire sequence can be customized, here is only for reference, the final output terminal is subject to the actual product.)

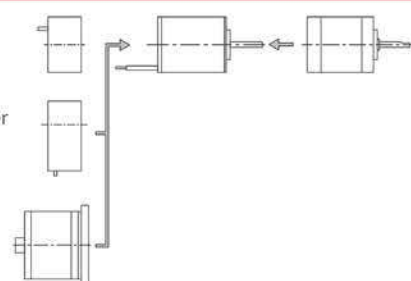
技术说明 Technical specifications

轴间间隙 Axial play: 0.05-0.15mm
 滑动轴承最大载荷 sintered metal bearing load max:
 · 轴向 (动态) Max axial load (dynamic): 0.8N
 · 径向 (法兰外5mm) Max radial load (5mm from flange): 8N
 · 最大允许安装力 (静态) Max press fit force (static): 10N
 滚动轴承径向间隙 Radial play: ≤0.015mm
 环境温度范围 Ambient temperature range: -20~+80°C
 相对湿度范围 Relative humidity range: <90% (25°C)
 最高转子温度 Highest rotor temperature: 85°C
 表中数据均为标称值 Values listed in the table are nominal

组合体系 System

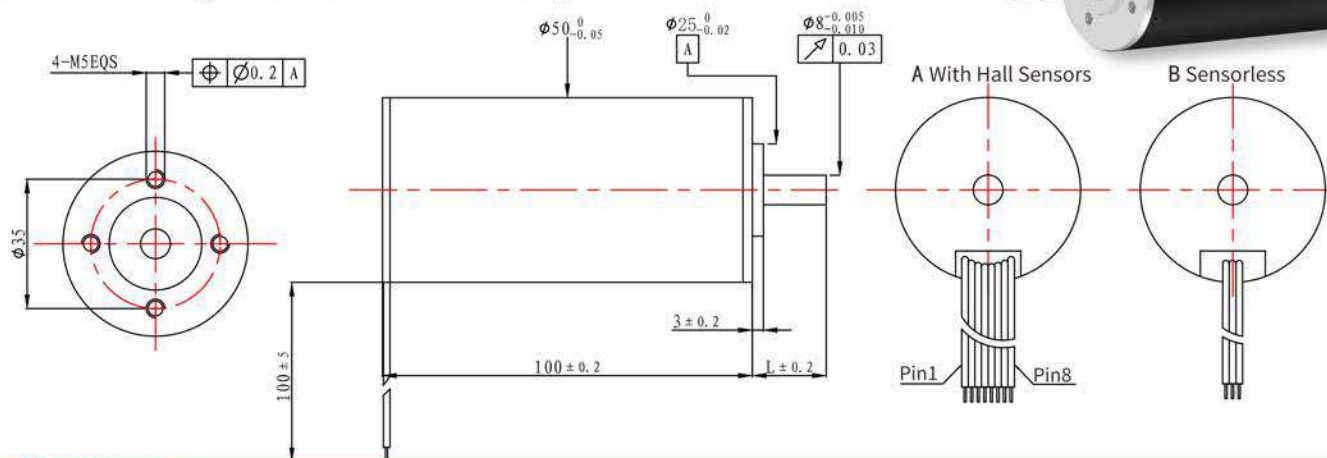
适配部件 Optional Parts:

- 行星轮减速箱 Planetary gearbox
- 光电式编码器 Photoelectric encoder
- 磁电式编码器 Magnetolectric encoder
- 刹车 Brake



Φ50*L100mm, 无刷直流电机, 360-760W

Φ50*L100m, Brushless DC Motor, 360-760W



电机参数 Motor Data

电机型号 Motor Model

额定电压参数值 Value at Rated voltage

额定点 At Nominal

				50100	50100	50100
1	额定电压	Nominal voltage	V/DC	24	36	48
2	额定转速	Nominal speed	rpm	5984	5525	5355
3	额定电流	Nominal current	A	15.44	13.05	9.40
4	额定转矩	Nominal torque	mNm	501.51	668.79	659.41

空载点 Free Load

5	空载转速	No-load speed	rpm	6800	6500	6300
6	空载电流	No-load current	mA	500	350	290

最大效率点 At Max. Efficiency

7	最大效率	Max. efficiency	%	87.8	87.6	86.7
8	转速	Speed	rpm	6392	6078	5891
9	电流	Current	A	7.970	5.852	4.236
10	转矩	Torque	mNm	250.8	289.81	285.74

最大输出功率点 At Max. Output power

11	最大功率	Max. output power	W	744.0	758.7	725.1
12	转速	Speed	rpm	3400	3250	3150
13	电流	Current	A	62.8	42.7	30.6
14	转矩	Torque	mNm	2089.6	2229.29	2198.03

堵转点 At Stall

15	堵转电流	Stall current	A	125.0	85.0	61.0
16	堵转转矩	Stall torque	mNm	4179.3	4458.57	4396.05

电机常数 Motor Constants

17	电机阻抗	Terminal resistance	Ω	0.19	0.42	0.79
18	电机感抗	Terminal inductance	mH	0.155	0.348	0.638
19	转矩常数	Torque constant	mNm/A	33.57	52.67	72.41
20	转速常数	Speed constant	rpm/V	283.3	180.6	131.3
21	转数/转矩常数	Speed/torque constant	rpm/mNm	1.6	1.5	1.4
22	机械时间常数	Mechanical time constant	ms	4.10	3.67	3.61
23	转子惯量	Rotor inertia	gcm ²	240.50	240.50	240.50
24	极对数	Number of pole pairs		1		
25	相数	Number of phase		3		
26	重量	Weight of motor	g	837		
27	噪音	Typical noise level	dB	≤50		

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