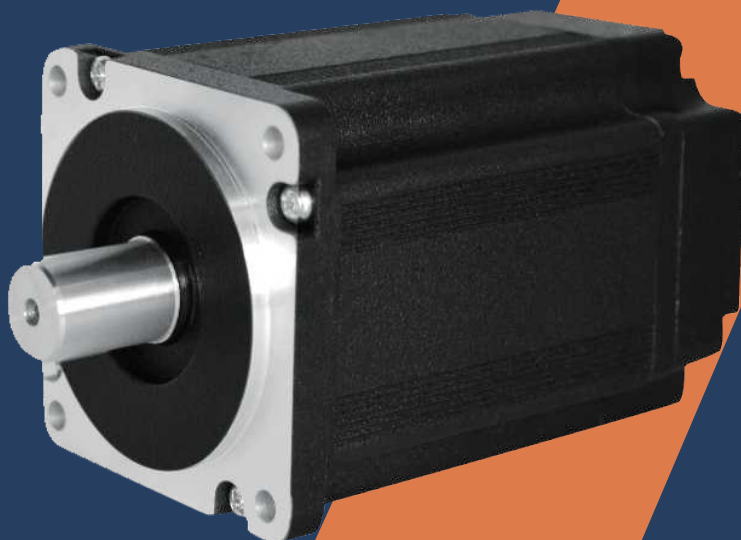


Brushless DC Motor



33BYA Series

General Specification

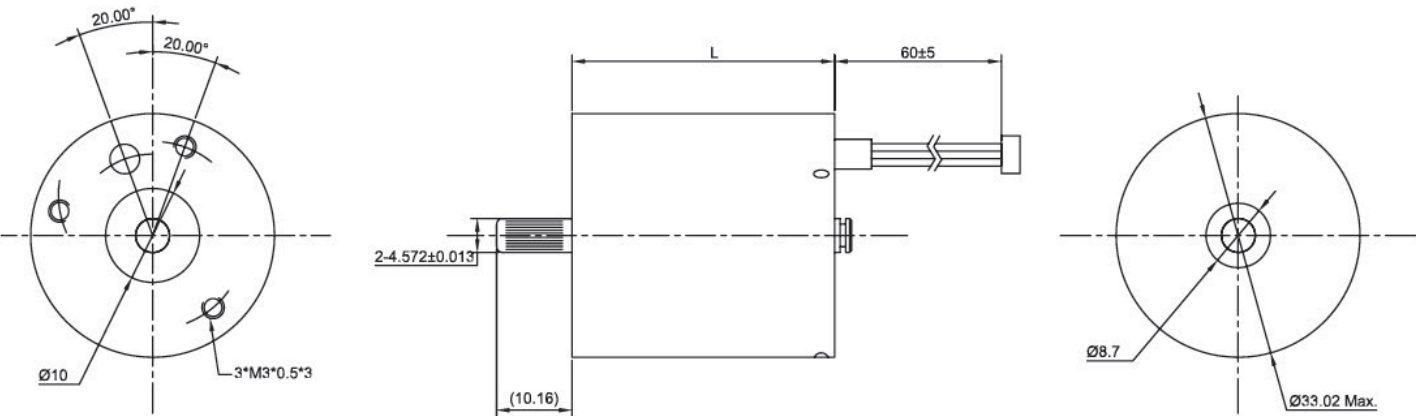
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /450g
End play 轴向间隙	0.08mm /450g
Max. radial force 径向最大承受力	15N @ 10mm from the flange
Max. axial force 轴向最大承受力	10N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	33BYA036B 150X-01	33BYA036B 200X-01	33BYA036A 200X-01
Number of poles 极数			4	
Number of phase 相数			3	
Rated voltage 额定电压	VDC	24	24	12
Rated speed 额定转速	RPM	15000	20000	20000
Continuous stall torque 持续堵转转矩	mN.m	14.16	14.16	14.16
Rated torque 额定转矩	mN.m	11.8	11.8	11.8
Rated power 额定功率	W	18.5	25	25
Peak torque 峰值扭矩	N.m	35.4	35.4	35.4
Peak current 峰值电流	A	3	4.05	8.1
Torque constant 转矩常数	Nm/A	11.8×10^{-3}	9×10^{-3}	4.5×10^{-3}
Back E.M.F 反电势	V/KRPM	1.5	1.09	0.54
Rotor inertia 转动惯量	g.cm ²	2.33	2.33	2.33
Body length 电机长度	mm		36	
Voltage range 电压范围	VDC		12~24	
Speed Range 转速范围	RPM		4000~22000	
Weight 重量	Kg	0.1	0.1	0.1

Dimensions in mm



42BYA Series

General Specification

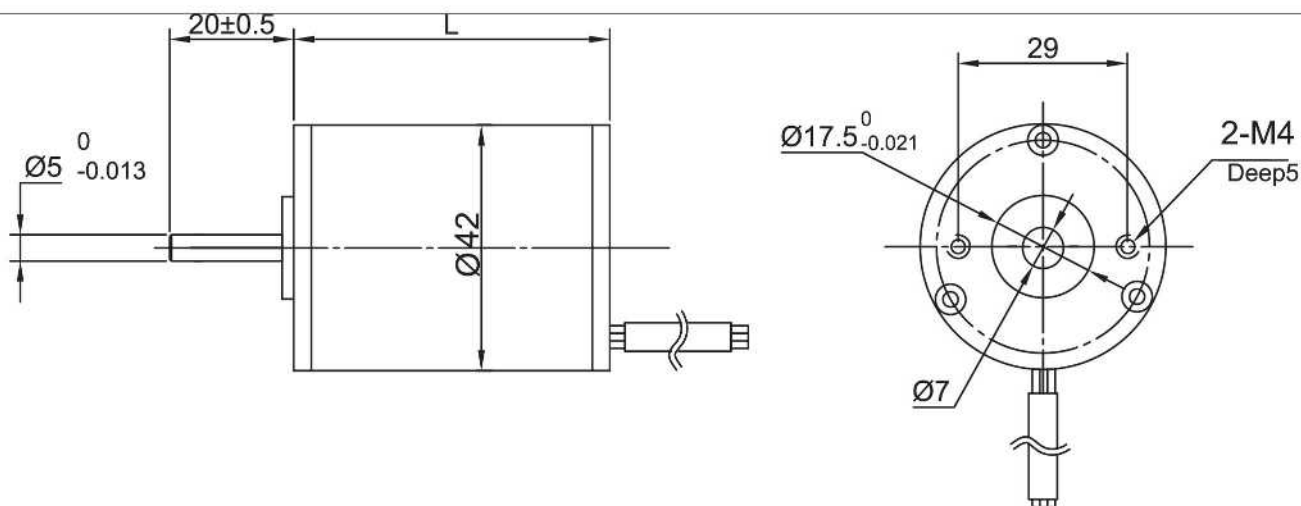
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.02mm /400g
Max. radial force 径向最大承受力	15N @ 10mm from the flange
Max. axial force 轴向最大承受力	10N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	42BYA045B020X-01	42BYA054B020X-01	42BYA075B020X-01
Number of poles 极数			4	
Number of phase 相数			3	
Rated voltage 额定电压	VDC		24	
Rated speed 额定转速	RPM	2000	2000	2000
Continuous stall torque 持续堵转转矩	N.m	0.048	0.096	0.192
Rated torque 额定转矩	N.m	0.04	0.08	0.16
Rated power 额定功率	W	8.4	21	33.5
Peak torque 峰值扭矩	N.m	0.12	0.25	0.45
Peak current 峰值电流	A	1.34	3.7	5.6
Torque constant 转矩常数	Nm/A	0.075	0.075	0.075
Back E.M.F 反电势	V/KRPM	8	8	8
Rotor inertia 转动惯量	g.cm ²	14.6	20.3	38
Body length 电机长度	mm	43	54	73
Voltage range 电压范围	VDC		24~48	
Speed Range 转速范围	RPM		2000 ~ 15000	
Weight 重量	Kg	0.37	0.46	0.63

Dimensions in mm



42BSA Series (big torque)

General Specification

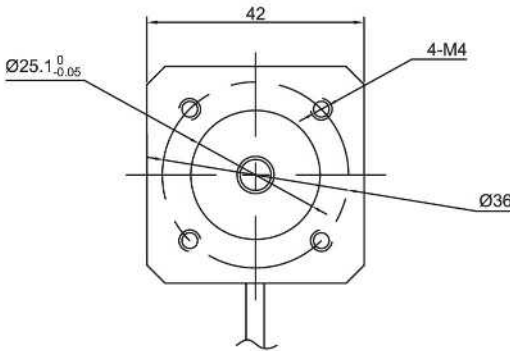
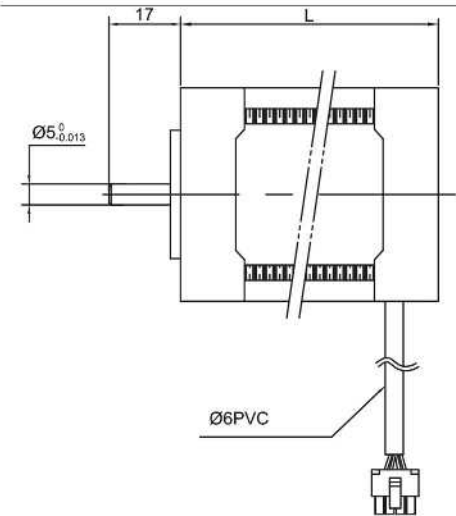
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.02mm /400g
Max. radial force 径向最大承受力	15N @ 10mm from the flange
Max. axial force 轴向最大承受力	10N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC



Performance Data

Model 型号	Units	42BSA045B010X-01	42BSA060B010X-01	42BSA075B010X-01
Number of poles 极数			8	
Number of phase 相数			3	
Rated voltage 额定电压	VDC		24	
Rated speed 额定转速	RPM	1000	1000	1000
Continuous stall torque 持续堵转转矩	N.m	0.096	0.19	0.28
Rated torque 额定转矩	N.m	0.08	0.16	0.24
Rated power 额定功率	W	8.3	16.6	75
Peak torque 峰值扭矩	N.m	0.24	0.57	0.72
Peak current 峰值电流	A	1.3	2.6	11.72
Torque constant 转矩常数	Nm/A	0.162	0.162	0.03
Back E.M.F 反电势	V/KRPM	17.1	17.1	6.3
Rotor inertia 转动惯量	g.cm ²	24	48	72
Body length 电机长度	mm	46	62	78
Voltage range 电压范围	VDC		12~48	
Speed Range 转速范围	RPM		1000 ~ 4000	
Weight 重量	Kg	0.3	0.44	0.56

Dimensions in mm



42BSB Series

General Specification

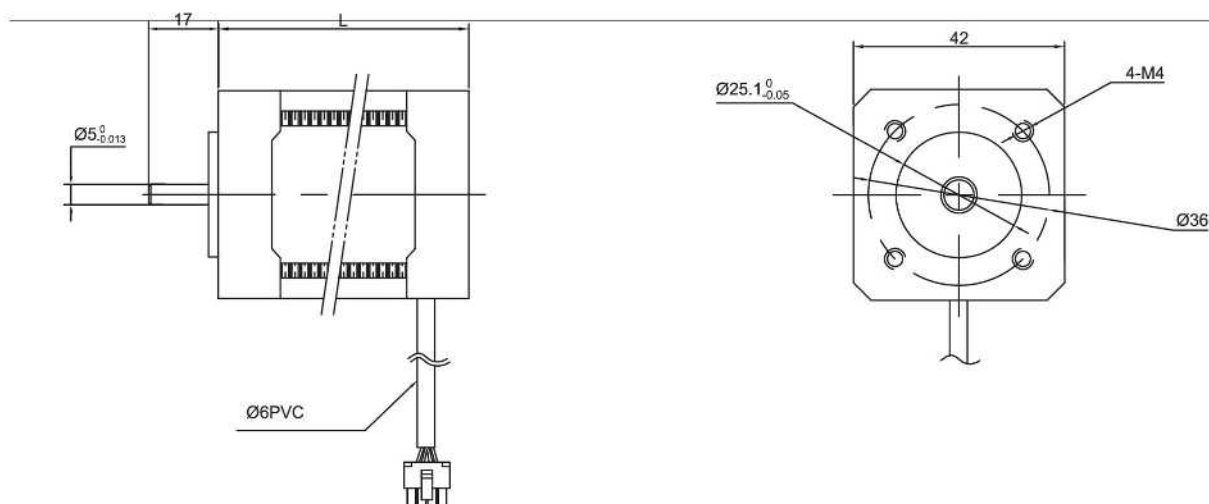
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.025mm /400g
End play 轴向间隙	0.025mm /400g
Max. radial force 径向最大承受力	15N @ 10mm from the flange
Max. axial force 轴向最大承受力	10N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC



Performance Data

Model 型号	Units	42BSB041B020X-01	42BSB061B040X-01	42BSB081B020X-01	42BSB101B020X-01
Number of poles 极数			8		
Number of phase 相数			3		
Rated voltage 额定电压	VDC		24		
Rated speed 额定转速	RPM	2000	4000	2000	2000
Continuous stall torque 持续堵转转矩	N.m	0.072	0.144	0.225	0.300
Rated torque 额定转矩	N.m	0.063	0.125	0.19	0.250
Rated power 额定功率	W	13	52	39.5	52.5
Peak torque 峰值扭矩	N.m	0.19	0.375	0.57	0.75
Peak current 峰值电流	A	2.7	10.6	7.25	10
Torque constant 转矩常数	Nm/A	0.074	0.035	0.074	0.074
Back E.M.F 反电势	V/KRPM	7.82	3.66	7.82	7.82
Rotor inertia 转动惯量	g.cm ²	24	48	72	96.00
Body length 电机长度	mm	41	61	81	101
Voltage range 电压范围	VDC		12 ~ 48		
Speed Range 转速范围	RPM		2000 ~ 8000		
Weight 重量	Kg	0.3	0.45	0.6	0.80

Dimensions in mm



57BSA Series (big torque)

General Specification

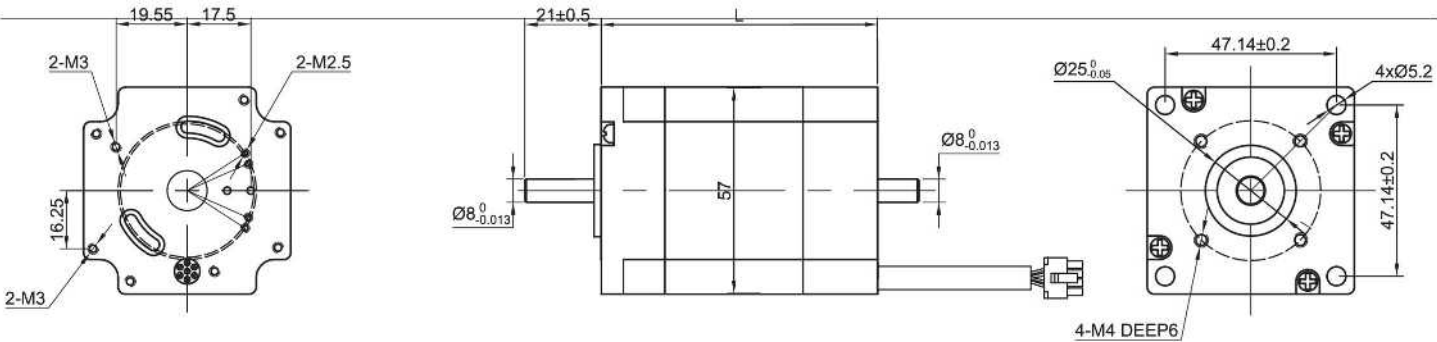
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.02mm /400g
Max. radial force 径向最大承受力	15N @ 10mm from the flange
Max. axial force 轴向最大承受力	10N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC



Performance Data

Model 型号	Units	57BSA060B010X-01	57BSA080B010X-01	57BSA100B010X-01
Number of poles 极数			8	
Number of phase 相数			3	
Rated voltage 额定电压	VDC		24	
Rated speed 额定转速	RPM	1000	1000	1000
Continuous stall torque 持续堵转转矩	N.m	0.24	0.48	0.72
Rated torque 额定转矩	N.m	0.2	0.4	0.6
Rated power 额定功率	W	21	42	62
Peak torque 峰值转矩	N.m	0.6	1.2	1.8
Peak current 峰值电流	A	3.28	3.28	3.28
Torque constant 转矩常数	Nm/A	0.227	0.227	0.227
Back E.M.F 反电势	V/KRPM	24	24	24
Rotor inertia 转动惯量	g.cm ²	145	286	420
Body length 电机长度	mm	59	80	101
Voltage range 电压范围	VDC		12~80	
Speed Range 转速范围	RPM		1000~3000	
Weight 重量	Kg	0.6	1	1.5

Dimensions in mm



57BSB Series(Servo Motor 伺服系列)

General Specification

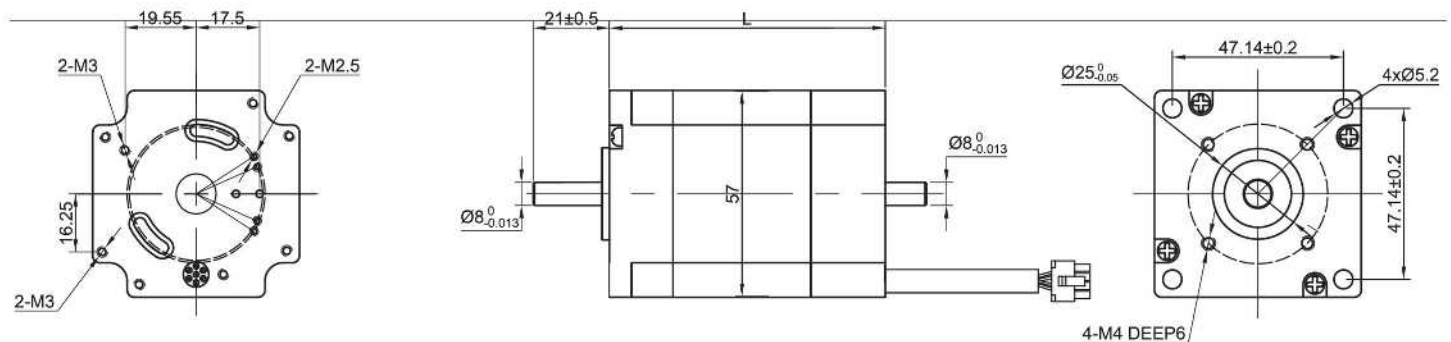
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.025mm /460g
End play 轴向间隙	0.025mm /400g
Max. radial force 径向最大承受力	75N @ 20mm from the flange
Max. axial force 轴向最大承受力	15N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC



Performance Data

Model 型号	Units	57BSB076B010X-01	57BSB096B010X-01	57BSB116B010X-01
Number of poles 极数			8	
Number of phase 相数			3	
Rated voltage 额定电压	VDC		24	
Rated speed 额定转速	RPM	1000	1000	1000
Continuous stall torque 持续堵转转矩	N.m	0.36	0.54	0.72
Rated torque 额定转矩	N.m	0.3	0.45	0.6
Rated power 额定功率	W	31.5	47	63
Peak torque 峰值转矩	N.m	0.9	1.35	1.8
Peak current 峰值电流	A	5.6	8.4	11.25
Torque constant 转矩常数	Nm/A	0.16	0.16	0.16
Back E.M.F 反电势	V/KRPM	13	13	13
Rotor inertia 转动惯量	g.cm ²	100	150	200
Body length 电机长度	mm	76	96	116
Voltage range 电压范围	VDC		12~80	
Speed Range 转速范围	RPM		1000~3000	
Weight 重量	Kg	0.65	0.95	1.25

Dimensions in mm



57BYA Series (big torque)

General Specification

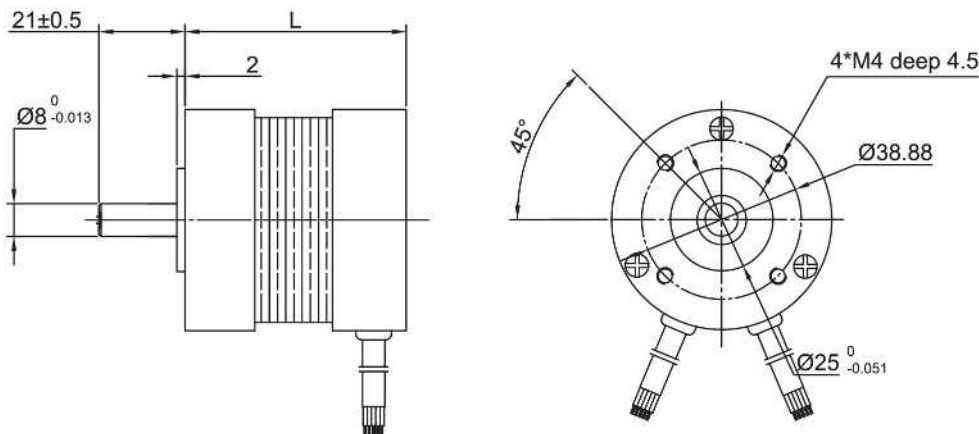
Winding type 绕组连续方式	Delta
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.025mm /460g
End play 轴向间隙	0.025mm /400g
Max. radial force 径向最大承受力	75N @ 20mm from the flange
Max. axial force 轴向最大承受力	15N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	57BYA044B 040X-01	57BYA054B 040X-01	57BYA074B 020X-01	57BYA094B 020X-01	57BYA114B 020X-01
Number of poles 极数				4		
Number of phase 相数				3		
Rated voltage 额定电压	VDC			24		
Rated speed 额定转速	RPM	4000	4000	2000	2000	2000
Continuous stall torque 持续堵转转矩	N.m	0.096	0.19	0.384	0.54	0.72
Rated torque 额定转矩	N.m	0.08	0.16	0.32	0.45	0.6
Rated power 额定功率	W	33.5	67	67	94	125
Peak torque 峰值转矩	N.m	0.24	0.48	0.96	1.35	1.8
Peak current 峰值电流	A	6	11.1	11.1	15.6	20.8
Torque constant 转矩常数	Nm/A	0.04	0.045	0.081	0.081	0.081
Back E.M.F 反电势	V/KRPM	4.8	4.8	8.57	8.57	8.57
Rotor inertia 转动惯量	g.cm ²	31	60.5	113	181.5	242
Body length 电机长度	mm	44	54	74	94	114
Voltage range 电压范围	VDC			12~80		
Speed Range 转速范围	RPM			2000~6000		
Weight 重量	Kg	0.25	0.5	0.75	1	1.25

Dimensions in mm



57BYB Series

General Specification

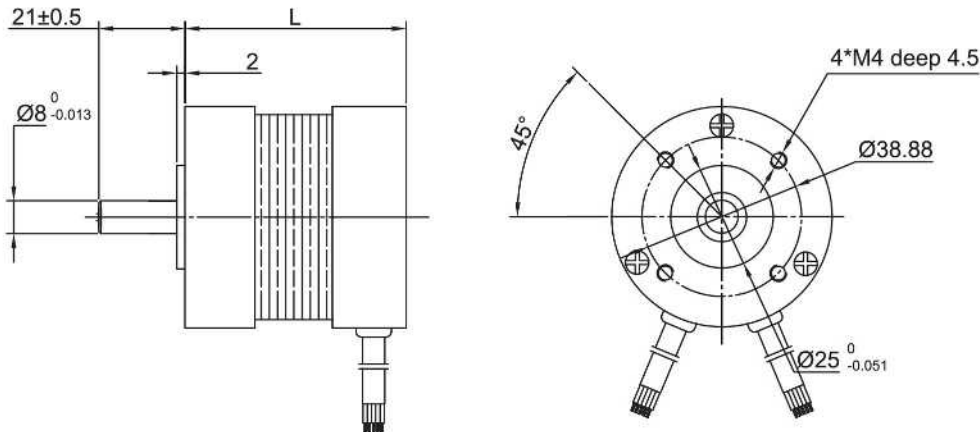
Winding type 绕组连续方式	Delta
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.025mm /460g
End play 轴向间隙	0.025mm /4000g
Max. radial force 径向最大承受力	75N @ 20mm from the flange
Max. axial force 轴向最大承受力	15N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	57BYB054B020X-01	57BYB074B020X-01	57BYB094B020X-01	57BYB114B020X-01
Number of poles 极数				4	
Number of phase 相数				3	
Rated voltage 额定电压	VDC			24	
Rated speed 额定转速	RPM	2000	2000	2000	2000
Continuous stall torque 持续堵转转矩	N.m	0.192	0.348	0.492	0.684
Rated torque 额定转矩	N.m	0.16	0.29	0.41	0.57
Rated power 额定功率	W	33.5	60	86	119
Peak torque 峰值扭矩	N.m	0.48	0.87	1.23	1.71
Peak current 峰值电流	A	6	10.7	15.3	21.2
Torque constant 转矩常数	Nm/A	0.08	0.08	0.08	0.08
Back E.M.F 反电势	V/KRPM	8.57	8.57	8.57	8.57
Rotor inertia 转动惯量	g.cm ²	75	119	173	230
Body length 电机长度	mm	82.5	102.5	122.5	142.5
Voltage range 电压范围	VDC			12~80	
Speed Range 转速范围	RPM			2000~4000	
Weight 重量	Kg	0.4	0.8	1.1	1.3

Dimensions in mm



60BSA Series

General Specification

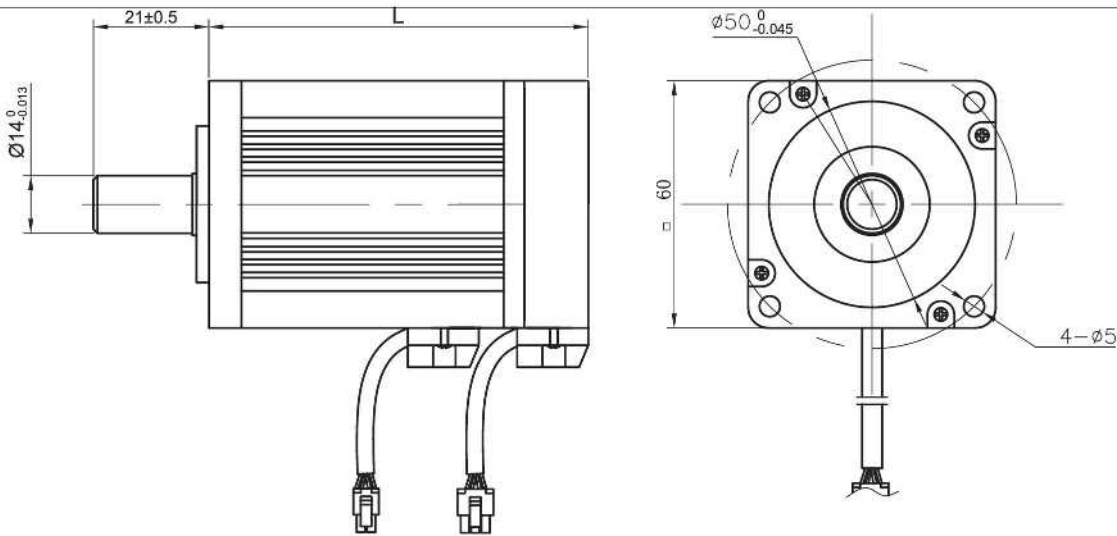
Winding type 绕组连续方式	Delta
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.025mm /460g
End play 轴向间隙	0.025mm /400g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	60BSA072B010X-01	60BSA092B010X-01	60BSA114B010X-01	60BSA134B010X-01
Number of poles 极数				8	
Number of phase 相数				3	
Rated voltage 额定电压	VDC			24	
Rated speed 额定转速	RPM	1000	1000	1000	1000
Continuous stall torque 持续堵转转矩	N.m	0.38	0.78	1.2	1.56
Rated torque 额定转矩	N.m	0.32	0.65	1	1.3
Rated power 额定功率	W	33.5	68	105	136
Peak torque 峰值转矩	N.m	0.96	1.95	3	3.9
Peak current 峰值电流	A	6	12.2	18.8	24.3
Torque constant 转矩常数	Nm/A	0.16	0.16	0.16	0.16
Back E.M.F 反电势	V/KRPM	17.14	17.14	17.14	17.14
Rotor inertia 转动惯量	g.cm ²	70	140	210	280
Body length 电机长度	mm	72	92	114	134
Voltage range 电压范围	VDC			12~310	
Speed Range 转速范围	RPM			1000~3000	
Weight 重量	Kg	0.55	0.95	1.35	1.75

Dimensions in mm



80BSA Series

General Specification

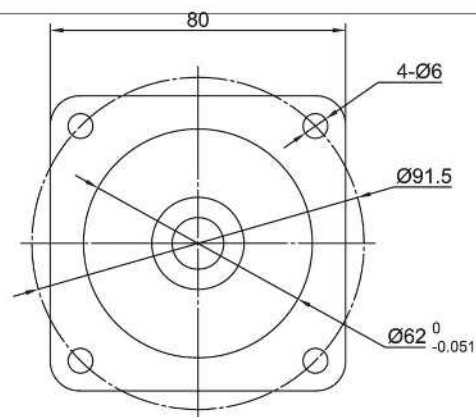
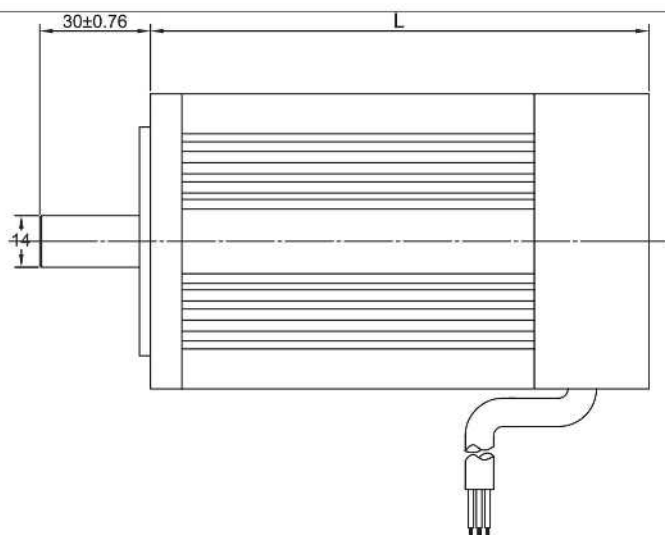
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.025mm /460g
End play 轴向间隙	0.025mm /400g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC



Performance Data

Model 型号	Units	80BSA098D025X-01	80BSA122D030X-01	80BSA150I020X-01	80BSA160I025X-01
Number of poles 极数				8	
Number of phase 相数				3	
Rated voltage 额定电压	VDC	48	48	310	310
Rated speed 额定转速	RPM	2500	3000	2000	2500
Continuous stall torque 持续堵转转矩	N.m	1.56	2.9	4.2	4.8
Rated torque 额定转矩	N.m	1.3	2.4	3.5	4
Rated power 额定功率	W	340	754	733	1047
Peak torque 峰值转矩	N.m	3.8	7.1	10.5	12
Peak current 峰值电流	A	28.3	62.8	9.5	13.5
Torque constant 转矩常数	Nm/A	0.121	0.068	0.042	0.121
Back E.M.F 反电势	V/KRPM	10	8.8	77.5	65.7
Rotor inertia 转动惯量	Kg.cm ²	1.05	1.82	2.63	2.97
Body length 电机长度	mm	98	122	150	160
Voltage range 电压范围	VDC			12~310	
Speed Range 转速范围	RPM			1000~3000	
Weight 重量	Kg	3	3.5	4.1	4.3

Dimensions in mm



86BSA Series (8Poles 8 极电机)

General Specification

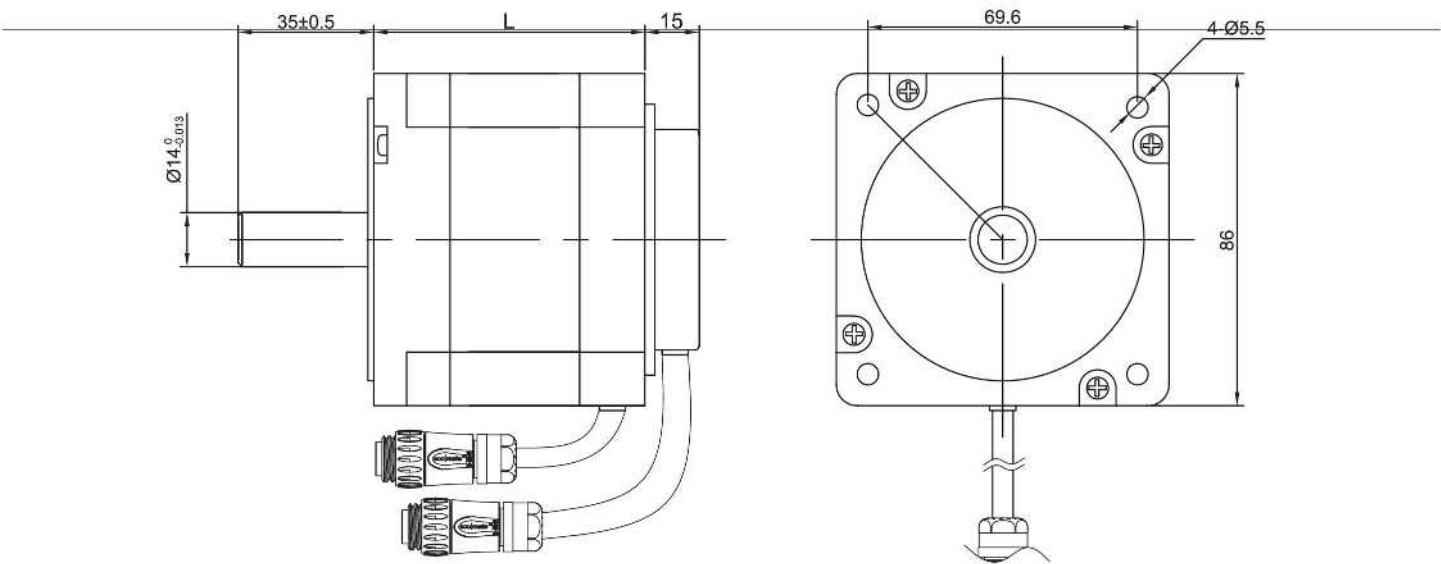
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.08mm /400g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	86BSA058D010X-01	86BSA071D010X-01	86BSA098D010X-01	86BSA125D010X-01
Number of poles 极数				8	
Number of phase 相数				3	
Rated voltage 额定电压	VDC			48	
Rated speed 额定转速	RPM	1000	1000	1000	3000
Continuous stall torque 持续堵转转矩	N.m	0.42	0.84	1.68	2.2
Rated torque 额定转矩	N.m	0.35	0.7	1.4	2.1
Rated power 额定功率	W	24.3	73	147	220
Peak torque 峰值转矩	N.m	1.05	2.1	4.2	6.3
Peak current 峰值电流	A	2.86	5.7	11.4	17.2
Torque constant 转矩常数	Nm/A	0.324	0.324	0.324	0.324
Back E.M.F 反电势	V/KRPM	34.28	34.28	34.28	34.28
Rotor inertia 转动惯量	Kg.cm ²	0.4	0.8	1.6	2.4
Body length 电机长度	mm	58	71	98	125
Voltage range 电压范围	VDC			12~310	
Speed Range 转速范围	RPM			1000~3000	
Weight 重量	Kg	1.5	1.9	2.6	4

Dimensions in mm



86BSD Series (4Poles 4 极电机)

General Specification

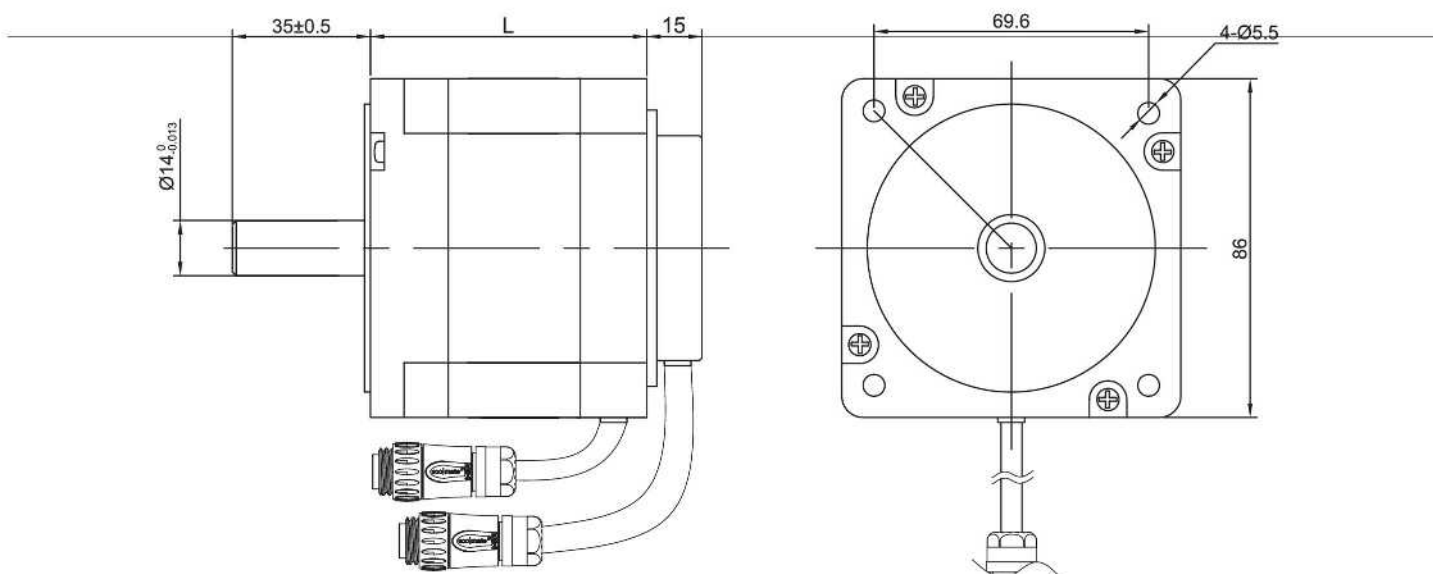
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.08mm /400g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC



Performance Data

Model 型号	Units	86BSD071B020X-01	86BSD098D020X-01	86BSD125D020X-01
Number of poles 极数			4	
Number of phase 相数			3	
Rated voltage 额定电压	VDC	24	48	48
Rated speed 额定转速	RPM	2000	2000	2000
Continuous stall torque 持续堵转转矩	N.m	0.84	1.68	2.52
Rated torque 额定转矩	N.m	0.7	1.4	2.1
Rated power 额定功率	W	147	293	440
Peak torque 峰值转矩	N.m	2.1	4.2	6.3
Peak current 峰值电流	A	25	24.7	36
Torque constant 转矩常数	Nm/A	0.084	0.17	0.175
Back E.M.F 反电势	V/KRPM	8.9	18	18.5
Rotor inertia 转动惯量	Kg.cm ²	0.7	1.4	2.1
Body length 电机长度	mm	71	98	125
Voltage range 电压范围	VDC		12 ~ 310	
Speed Range 转速范围	RPM		2000 ~ 6000	
Weight 重量	Kg	1.9	2.6	4

Dimensions in mm



90BSA Series (8Poles 8 极电机)

General Specification

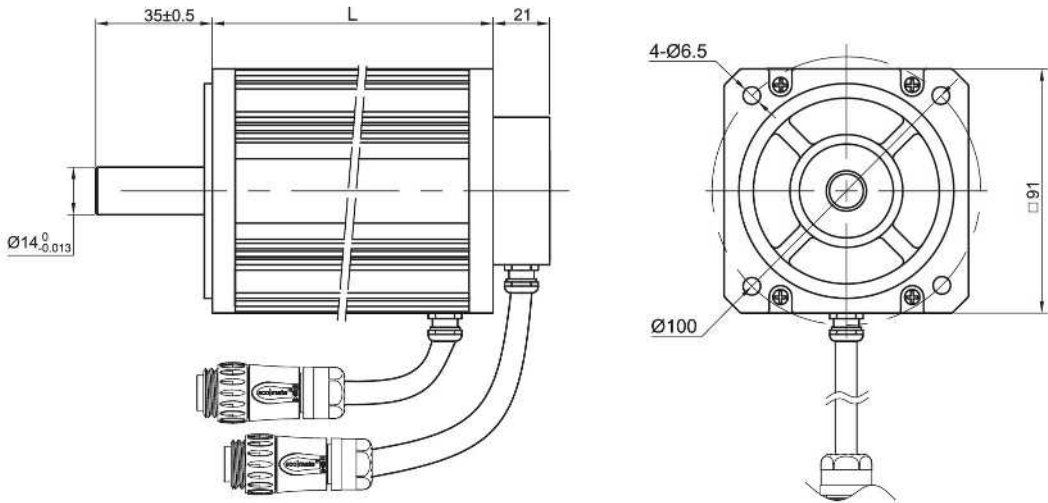
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.08mm /450g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	90BSA068A 030X-01	90BSA075B 030X-01	90BSA088D 010X-01	90BSA108D 010X-01	90BSA136I 010X-01
Number of poles 极数				8		
Number of phase 相数				3		
Rated voltage 额定电压	VDC	12	24	48	48	310
Rated speed 额定转速	RPM	3000	3000	1000	1000	1000
Continuous stall torque 持续堵转转矩	N.m	0.6	0.8	1	1.9	3
Rated torque 额定转矩	N.m	0.5	0.7	0.85	1.7	2.5
Rated power 额定功率	W	157	220	89	178	262
Peak torque 峰值转矩	N.m	1.5	2.1	2.55	5.1	7.5
Peak current 峰值电流	A	50.4	70.5	7.9	16.9	4
Torque constant 转矩常数	Nm/A	0.03	0.03	0.324	0.302	1.89
Back E.M.F 反电势	V/KRPM	3.15	3.15	34.3	32	200
Rotor inertia 转动惯量	Kg.cm ²	0.6	0.8	1.2	1.8	2.65
Body length 电机长度	mm	68	75	88	108	136
Voltage range 电压范围	VDC		12~80			48~310
Speed Range 转速范围	RPM			1000 ~ 3000		
Weight 重量	Kg	1.4	1.7	2.1	2.6	4.1

Dimensions in mm



90BSB Series (4Poles 4 极电机)

General Specification

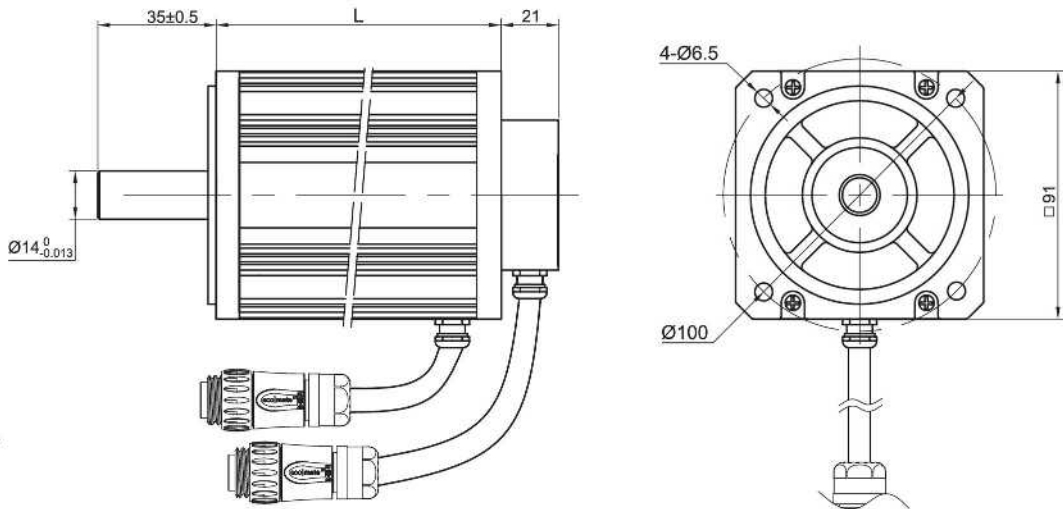
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.08mm /450g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	90BSB068B040X-01	90BSB075D040X-01	90BSB088D020X-01	90BSB108D020X-01	90BSB136I020X-01
Number of poles 极数				4		
Number of phase 相数				3		
Rated voltage 额定电压	VDC	24	48	48	48	310
Rated speed 额定转速	RPM	4000	4000	2000	2000	2000
Continuous stall torque 持续堵转转矩	N.m	0.6	0.8	1.2	1.7	2.2
Rated torque 额定转矩	N.m	0.5	0.7	1	1.6	2
Rated power 额定功率	W	209	293	209	335	524
Peak torque 峰值扭矩	N.m	1.5	2.1	3	4.8	7.5
Peak current 峰值电流	A	17.3	24.2	17.4	27.8	6.6
Torque constant 转矩常数	Nm/A	0.087	0.087	0.172	0.172	1.137
Back E.M.F 反电势	V/KRPM	9.2	9.2	18.24	18.24	120.3
Rotor inertia 转动惯量	kg.cm ²	0.45	0.6	0.9	2.1	2.95
Body length 电机长度	mm	68	75	88	108	136
Voltage range 电压范围	VDC		12~80			48~310
Speed Range 转速范围	RPM			2000 ~ 6000		
Weight 重量	Kg	1.4	1.7	2.1	2.6	4.1

Dimensions in mm



110BSA Series

General Specification

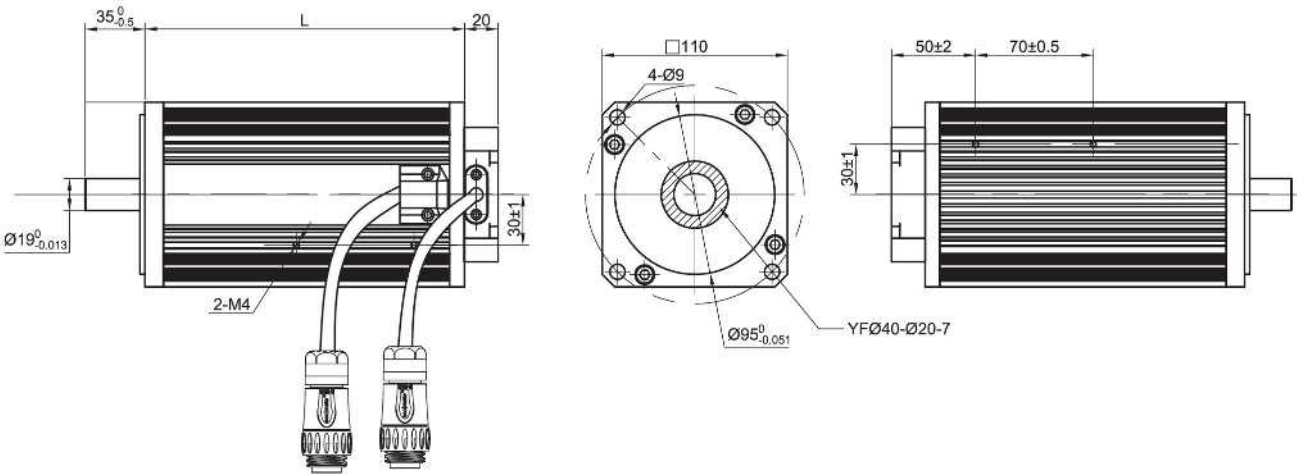
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm /460g
End play 轴向间隙	0.08mm /450g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100MΩ min., 500VDC



Performance Data

Model 型号	Units	110BSA125I030X-01	110BSA155I030X-01	110BSA185I030X-01	110BSA210I030X-01
Number of poles 极数				8	
Number of phase 相数				3	
Rated voltage 额定电压	VDC	310	310	310	310
Rated speed 额定转速	RPM	3000	3000	3000	3000
Continuous stall torque 持续堵转转矩	N.m	2.2	4.8	7.164	8.592
Rated torque 额定转矩	N.m	2	4	6	7.16
Rated power 额定功率	W	625	1250	1885	2249
Peak torque 峰值转矩	N.m	6	12	17.91	21.48
Peak current 峰值电流	A	8	14.7	26	31
Torque constant 转矩常数	Nm/A	0.77	0.77	0.689	0.689
Back E.M.F 反电势	V/KRPM	54.8	54.8	54.8	54.8
Rotor inertia 转动惯量	g.cm ²	1.9	3.3	5	5.9
Body length 电机长度	mm	125	155	185	210
Voltage range 电压范围	VDC		48 ~ 310		
Speed Range 转速范围	RPM		1000 ~ 3000		
Weight 重量	Kg	4.8	5.2	5.5	6

Dimensions in mm



130BSA Series

General Specification

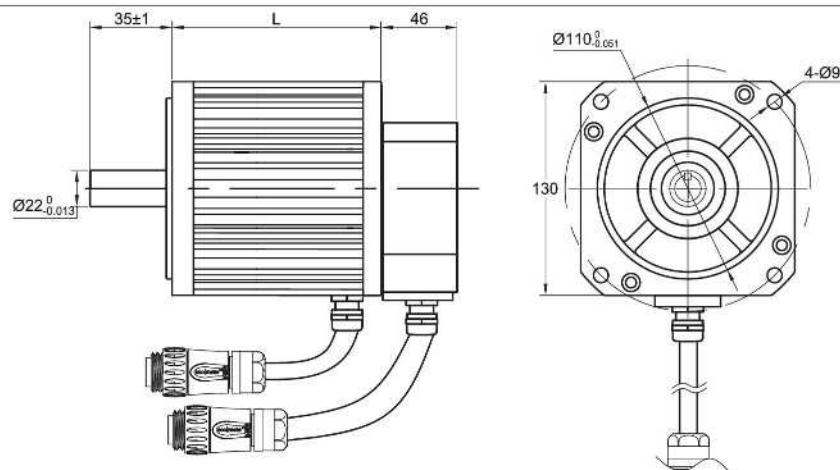
Winding type 绕组连续方式	YWE
Hall effect angle 霍尔分布角度	120 Deg. Electrical angle
Radial play 径向间隙	0.02mm @460g
End play 轴向间隙	0.08mm @450g
Max. radial force 径向最大承受力	220N @ 20mm from the flange
Max. axial force 轴向最大承受力	60N
Insulation class 绝缘等级	B
Dielectric strength 介电强度	500VDC for one minute
Insulation resistance 绝缘电阻	100M Ω min., 500VDC



Performance Data

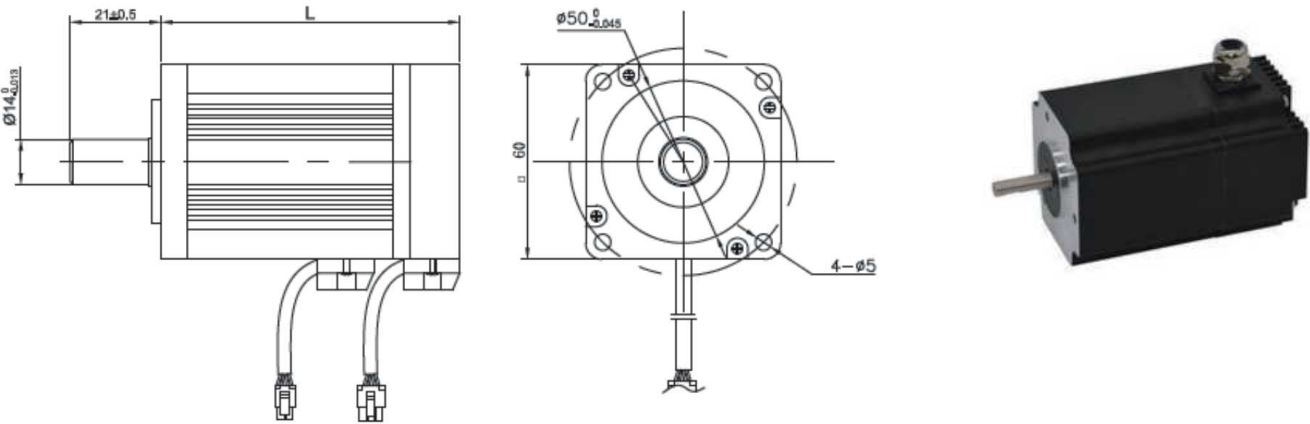
Model 型号	Units	130BSA120D030X-01	130BSA155I030X-01
Number of poles 极数			4
Number of phase 相数			3
Rated voltage 额定电压	VDC	48	310
Rated speed 额定转速	RPM	3000	3000
Continuous stall torque 持续堵转转矩	N.m	2.8	5.5
Rated torque 额定转矩	N.m	2.5	5
Rated power 额定功率	W	785	1570
Peak torque 峰值扭矩	N.m	7.5	15
Peak current 峰值电流	A	70	21.7
Torque constant 转矩常数	Nm/A	0.012	0.077
Back E.M.F 反电势	V/KRPM	8.93	8.93
Rotor inertia 转动惯量	g.cm ²	2.4	4.8
Body length 电机长度	mm	120	155
Voltage range 电压范围	VDC		48 ~ 310
Speed Range 转速范围	RPM		1000 ~ 3000
Weight 重量	Kg	5	7

Dimensions in mm



60BSA Series

Dimensions in mm



Performance Data

Model 型号	Units	60BSA072B010X-01	60BSA092B010X-01	60BSA114B030X-01
Number of poles 极数			8	
Number of phase 相数			3	
Rated voltage 额定电压	VDC		24	
Rated speed 额定转速	RPM	1000	1000	3000
Continuous stall torque 持续堵转转矩	N.m	0.38	0.78	1.2
Rated torque 额定转矩	N.m	0.32	0.65	1
Rated power 额定功率	W	33.5	68	314
Peak torque 峰值转矩	N.m	0.96	1.95	3
Peak current 峰值电流	A	6	12.2	56
Torque constant 转矩常数	Nm/A	0.16	0.16	0.054
Back E.M.F 反电势	V/KRPM	17.14	17.14	6
Rotor inertia 转动惯量	g.cm ²	70	140	210
Body length 电机长度	mm	72	92	114
Voltage range 电压范围	VDC		12~310	
Speed Range 转速范围	RPM		1000~3000	
Weight 重量	Kg	0.55	0.95	1.35

Intergrated Brushless DC Motors



Feature

- Rated Power 50W to 300w
- Speed control, 0-5V potentiometer/PMW
- Direction reversable
- Thermal overload protection with automatic recovery
- Ambient temperature -40°C~+75°C
- Up to IP67 protection
- Vibration standard refer to GB2807-81
- Customized motor specification

42BYA Series

Performance Data

Motor Specifications

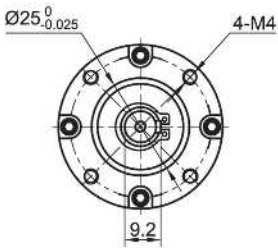
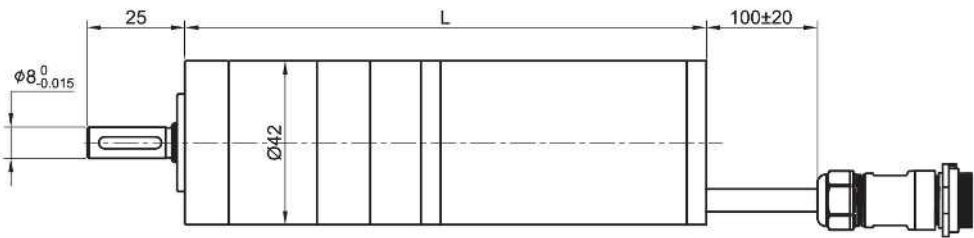
Model 型号	Units	42BYA075B030C-02
Number of poles 极数		4
Number of phase 相数		3
Rated voltage 额定电压	VDC	24
Rated speed 额定转速	RPM	3000
Continuous stall torque 持续堵转转矩	mN.m	0.192
Rated torque 额定转矩	mN.m	0.16
Rated power 额定功率	W	50
Peak torque 峰值转矩	mN.m	0.48
Peak current 峰值电流	A	9.6
Torque constant 转矩常数	Nm/A	0.05
Back E.M.F 反电势	V/KRPM	3.947
Rotor inertia 转动惯量	g.cm ²	14.6
Body length 电机长度	mm	134
Voltage range 电压范围	VDC	24~48
Speed Range 转速范围	rpm	1000~3000
Weight 重量	Kg	1.0

Gearbox Specifications

Voltage 电压	24 VDC
Phase 相数	3
Poles 级数	4
Line to line resistance 线到线电阻	1.45 ± 10% ohms
Line to line inductance 线到线电感	1.27 ± 20% mH
Rated current 额定电流	3.2A
Rated output power 额定功率	50W
No-load speed 空载转速	4300 rpm
Class insulation 绝缘等级	B
Gear Ratio 减速比	1:58.22
Output torque 输出转矩	7.5 N.m
Output speed 输出转速	51.5 rpm



Dimensions in mm



57BYA Series

Performance Data

Motor Specifications

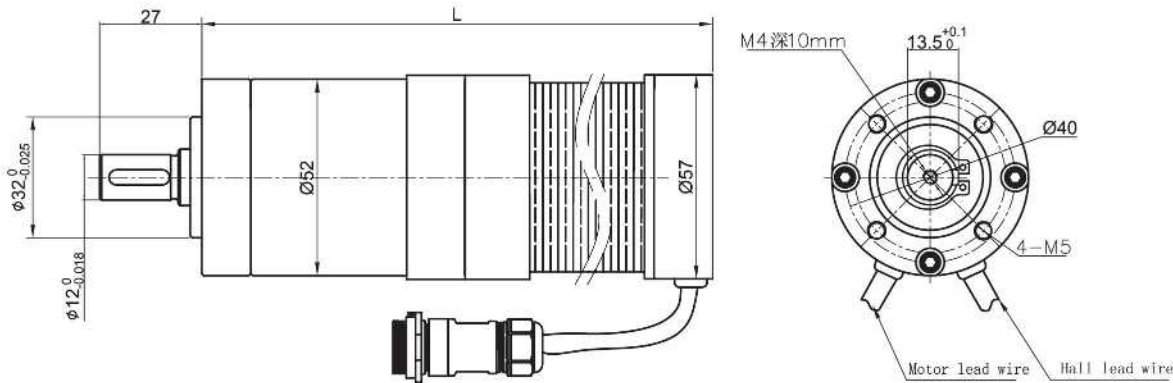
Model 型号	Units	57BYA094B030C-02
Number of poles 极数		4
Number of phase 相数		3
Rated voltage 额定电压	VDC	24
Rated speed 额定转速	RPM	3000
Continuous stall torque 持续堵转转矩	mN.m	0.528
Rated torque 额定转矩	mN.m	0.44
Rated power 额定功率	W	138
Peak torque 峰值转矩	N.m	1.32
Peak current 峰值电流	A	24.6
Torque constant 转矩常数	Nm/A	0.053
Back E.M.F 反电势	V/KRPM	4.24
Rotor inertia 转动惯量	g.cm ²	181.5
Body length 电机长度	mm	164
Voltage range 电压范围	VDC	24~48
Speed Range 转速范围	RPM	1000~3000
Weight 重量	Kg	1.5

Gearbox Specifications

Voltage 电压	24 VDC
Phase 相数	3
Poles 级数	4
Line to line resistance 线到线电阻	0.25 ± 10% ohms
Line to line inductance 线到线电感	0.73 ± 20% mH
Rated current 额定电流	8.2A
Rated output power 额定功率	138W
No-load speed 空载转速	4000 rpm
Class insulation 绝缘等级	B
Gear Ratio 减速比	1:33.92
Output torque 输出转矩	12 N.m
Output speed 输出转速	88.5 rpm



Dimensions in mm



60BYA Series

Performance Data

Motor Specifications

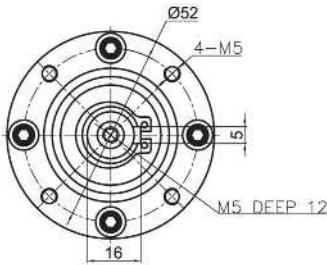
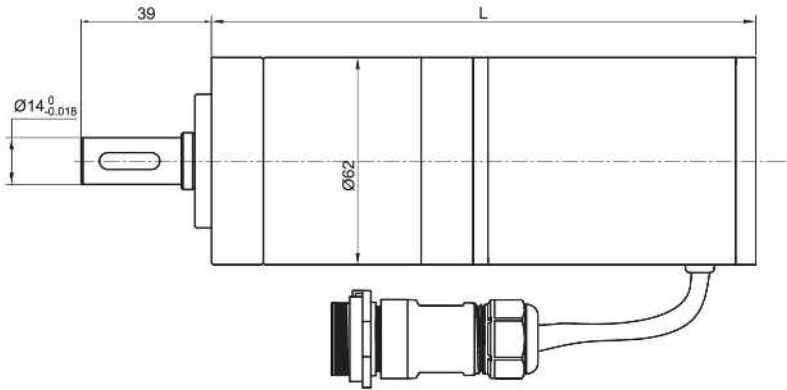
Model 型号	Units	60BYA092B030C-02
Number of poles 极数		8
Number of phase 相数		3
Rated voltage 额定电压	VDC	24
Rated speed 额定转速	RPM	3000
Continuous stall torque 持续堵转转矩	N.m	0.7644
Rated torque 额定转矩	N.m	0.637
Rated power 额定功率	W	200
Peak torque 峰值转矩	N.m	1.911
Peak current 峰值电流	A	36
Torque constant 转矩常数	Nm/A	0.053
Back E.M.F 反电势	V/KRPM	4.24
Rotor inertia 转动惯量	g.cm ²	140
Body length 电机长度	mm	163
Voltage range 电压范围	VDC	24~48
Speed Range 转速范围	RPM	1000~3000
Weight 重量	Kg	1.8

Gearbox Specifications

Voltage 电压	24 VDC
Phase 相数	3
Poles 级数	4
Line to line resistance 线到线电阻	0.15 ± 10%ohms
Line to line inductance 线到线电感	0.33 ± 20% mH
Rated current 额定电流	12A
Rated output power 额定功率	200W
No-load speed 空载转速	4000-rpm
Class insulation 绝缘等级	B
Gear Ratio 减速比	1:44.69
Output torque 输出转矩	23 N.m
Output speed 输出转速	67 rpm



Dimensions in mm



80BYA Series

Performance Data

Motor Specifications

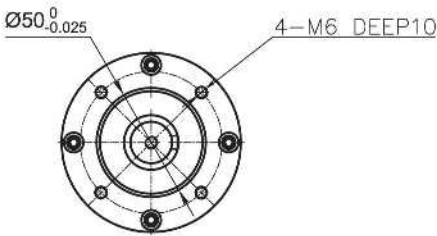
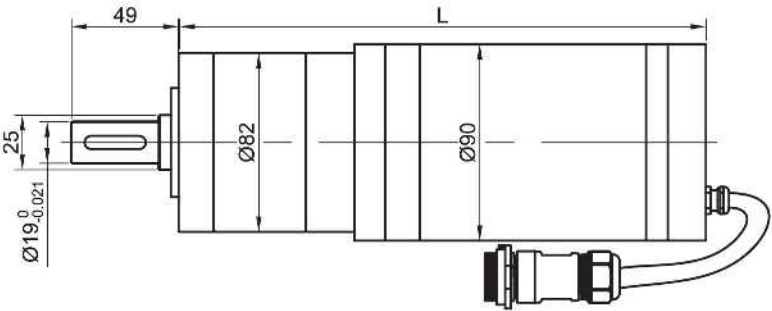
Model 型号	Units	80BYA122D030C-02
Number of poles 极数		8
Number of phase 相数		3
Rated voltage 额定电压	VDC	48
Rated speed 额定转速	RPM	3000
Continuous stall torque 持续堵转转矩	N.m	2.64
Rated torque 额定转矩	N.m	2.2
Rated power 额定功率	W	691
Peak torque 峰值转矩	N.m	6.6
Peak current 峰值电流	A	61.5
Torque constant 转矩常数	Nm/A	0.107
Back E.M.F 反电势	V/KRPM	4.24
Rotor inertia 转动惯量	g.cm ²	1.82
Body length 电机长度	mm	242
Voltage range 电压范围	VDC	48~310
Speed Range 转速范围	RPM	1000~3000
Weight 重量	Kg	3.2

Gearbox Specifications

Voltage 电压	48 VDC
Phase 相数	3
Poles 级数	4
Line to line resistance 线到线电阻	0.56 ± 10% ohms
Line to line inductance 线到线电感	1.187 ± 20% mH
Rated current 额定电流	20.5A
Rated output power 额定功率	691W
No-load speed 空载转速	4000 rpm
Class insulation 绝缘等级	B
Gear Ratio 减速比	1:33.92
Output torque 输出转矩	60 N.m
Output speed 输出转速	88.5 rpm



Dimensions in mm



90BYB Series

Performance Data

Motor Specifications

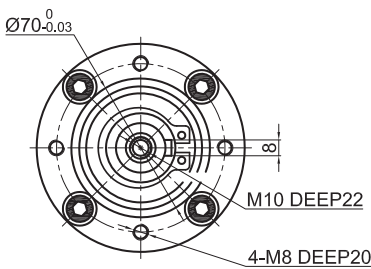
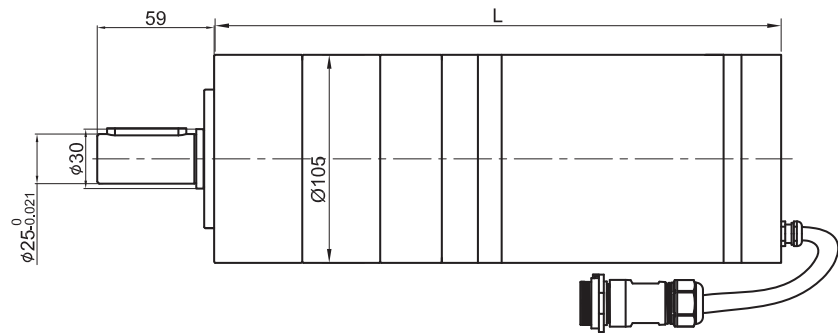
Model 型号	Units	90BYB136D030C-02
Number of poles 极数		4
Number of phase 相数		3
Rated voltage 额定电压	VDC	48
Rated speed 额定转速	RPM	3000
Continuous stall torque 持续堵转转矩	N.m	2.64
Rated torque 额定转矩	N.m	2.2
Rated power 额定功率	W	691
Peak torque 峰值转矩	N.m	6.6
Peak current 峰值电流	A	61.5
Torque constant 转矩常数	Nm/A	0.107
Back E.M.F 反电势	V/KRPM	4.24
Rotor inertia 转动惯量	g.cm ²	2.95
Body length 电机长度	mm	286
Voltage range 电压范围	VDC	48~310
Speed Range 转速范围	RPM	1000~3000
Weight 重量	Kg	5



Gearbox Specifications

Voltage 电压	48 VDC
Phase 相数	3
Poles 级数	4
Line to line resistance 线到线电阻	0.13 ± 10%ohms
Line to line inductance 线到线电感	0.46 ± 20% mH
Rated current 额定电流	21A
Rated output power 额定功率	691W
No-load speed 空载转速	4000 rpm
Class insulation 绝缘等级	B
Gear Ratio 减速比	1:58.22
Output torque 输出转矩	105 N.m
Output speed 输出转速	51.5 rpm

Dimensions in mm



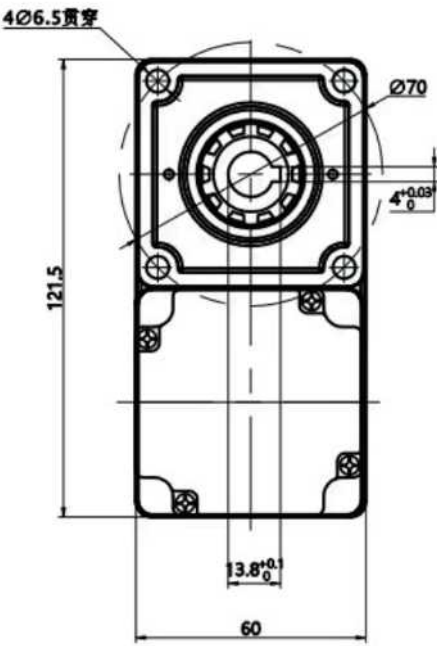
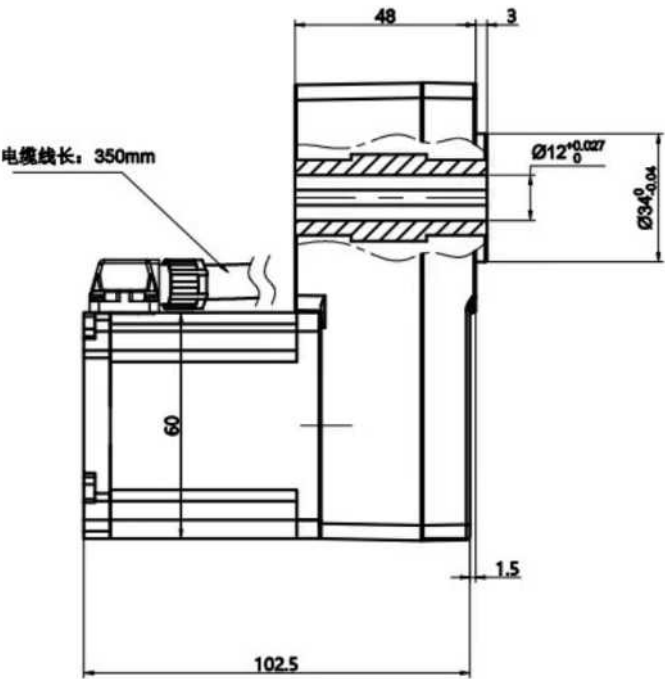
60BSD Series

Performance Data

Model 型号	Units	60BSD060B025C-01
Poles 极对数	/	8
Rated Voltage 额定电压	VDC	24
Rated Power 额定功率	W	30w
Rated Torque 额定力矩	N.m	0.11
Rated Speed 额定转速	rpm	2500±10%
Maximum Speed 最大转速	rpm	2800±10%
Rated Current 额定电流	A	≤1.8
Back E.M.F 反电势常数	V/Krpm	5.6±5%
Gear Ratio 齿轮箱减速比		1:20
Output Torque 输出力矩	N.m	1.61
Output speed 输出转速	rpm	125±10%
Insulation Class 热绝缘等级	Class	B
Safety Class 防护等级	IP	65
Environment 运行环境	°C	-40°C ~ 50°C
Weight 重量	Kg	1.25



Dimensions in mm



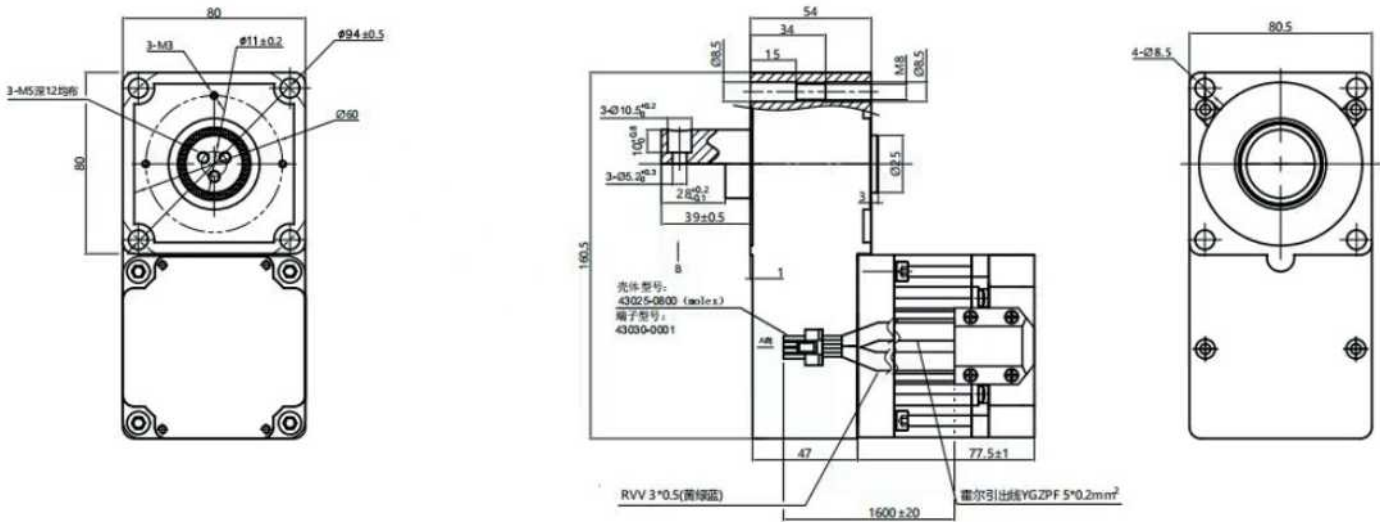
80BSD Series

Performance Data

Model 型号	Units	80BSD060B036C-01
Poles 极对数	/	8
Rated Voltage 额定电压	VDC	24
Rated Power 额定功率	W	67
Rated Torque 额定力矩	N.m	0.16
Rated Speed 额定转速	rpm	4000±10%
Rated Current 额定电流	A	4.5
Maximum Speed 最大转速	rpm	4500±10%
Back E.M.F 反电势常数	V/Krpm	3.7±5%
Gear Ratio 齿轮箱减速比		1:60
Output Torque 输出力矩	N.m	6.97
Output speed 输出转速	rpm	66.67±10%
Reducer efficiency 减速机效率		73%
Insulation Class 绝缘等级	Class	B
Safety Class 防护等级	IP	65
Environment 运行环境	°C	-40°C ~ 50°C
Weight 重量	Kg	TBD



Dimensions in mm



CERTIFICATE



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