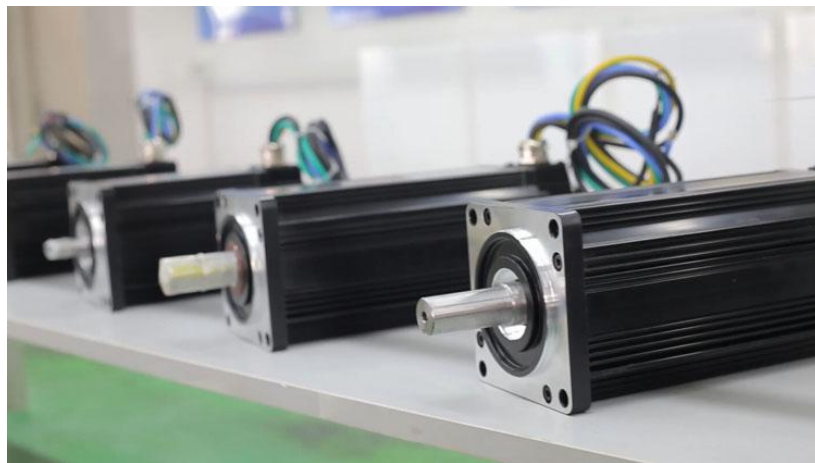


Jinan Keya Electronic Science and Technology Co., Ltd, founded in 2001, has been trading in the research & development, manufacturing and sales of DC Servo motor and Servo control system for years. Company set technology, talent, management and other resources advantages, to effectively integrate, has maintained a healthy, stable and rapid growth. The company has adopted ISO9001:2008 quality management system certification, products through the CE certification. More than 3000 large and medium-sized domestic equipment manufacturers designated as supporting products, and exported to the United States, Europe, Southeast Asia and other countries. In recent years, our company research many kinds of intelligent dc motor controller, dc speed controller, Dual channel intelligent dc controller, to realize the intelligent control of dc motor.

Jinan Keya Electron Science And Technology Co.,ltd

BRUSHLESS DC SERVO MOTOR



I. Product Features

Protection grade: IP65, insulation grade: F

Winding overhang structure optimization, to minimize the copper loss and iron loss minimization, small volume, light weight, low temperature rise, high efficiency.

Super high coercivity, the maximum magnetic energy product NdFe35 permanent magnetic materials, strong resistance to demagnetization, motor performance is stable.

Low noise, low vibration, low moment of inertia.

High torque, fast dynamic response, wide speed range, strong overload capacity (four times)

Features

*High Torque to inertia ratio&up to 25000Nm/kgm²

*Fast dynamic response *time constant <20ms

*Wide speed adjusting&feedback up to 1000:1

*Steady speed precision up to 0.5%

*High overload,2Mn/30s,3.5N.m/10s

*Small volume and light

*Silent,the lowest noise is only 45dB(A)

*Protected with IP55, Class F insulation

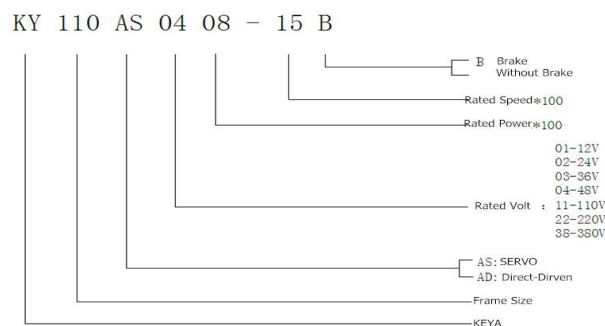
Industry class

1.The altitude should be over 1000 meters above sea level

2.Environment temperature: -25°C~+50°C

3.The month average tallest relative humidity is 90%,at the same the month average lowest temperature is less than 25°C

II. Type Description



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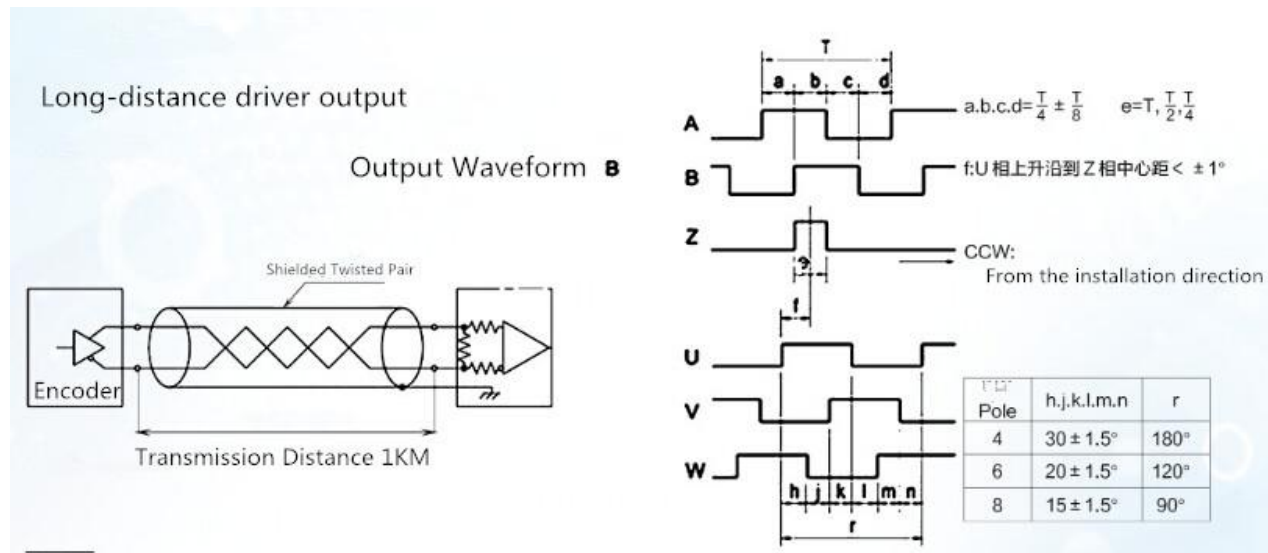
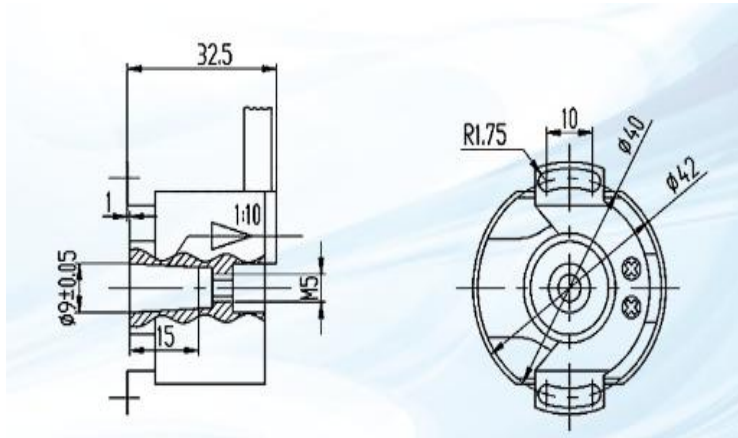
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III. Specification

Model	Volt	Power	Rated Torque	Rated Speed	Rated Current	Peak Torque	Line Resistance	Rotor Constant	Torque constant	Back EMF Constant	Rotor Inertia	Mechanical Time Constant	Electrical Time Constant	Encoder	Weight
Unit	V	W	Nm	r/min	A	Nm	Ω	mH	Nm/A	v/kr/min	$\text{Kg.m}^2 \times 10^{-6}$	ms	ms	P/R	kg
KY60AS0201-30	24	100	0.318	3000	5.4	0.95	2.36	0.225	0.058	6	21	0.65	0.6	2500	1.5
KY60AS0202-30	24	200	0.63	3000	10.4	1.89	1.3	0.12	0.06	6.5	21	0.8	0.6	2500	1.5
KY80AS0102-15	12	200	1.27	1500	22	3.8	0.016	0.28	0.17	17.3	418	0.56	0.5	2500	2.2
KY80AS0202-15	24	200	1.27	1500	9.4	3.8	0.06	0.28	0.17	17.3	418	0.56	0.5	2500	2.2
KY80AS0104-15	12	400	2.55	1500	44	7.65	0.025	0.066	0.119	10.9	250	0.63	0.5	2500	3.6
KY80AS0204-15	24	400	2.55	1500	21.3	7.65	0.025	0.066	0.119	10.9	250	0.63	0.5	2500	3.6
KY80AS0104-30	12	400	1.27	3000	44	3.8	0.05	0.56	0.06	10	281	0.6	0.5	2500	2.2
KY80AS0204-30	24	400	1.27	3000	18.8	3.8	0.05	0.56	0.06	10	281	0.6	0.5	2500	2.2

Model	Volt	Power	Rated Torque	Rated Speed	Rated Current	Peak Torque	Line Resistance	Rotor Constant	Torque constant	Back EMF Constant	Rotor Inertia	Mechanical Time Constant	Electrical Time Constant	Encoder	Weight
KY110AS0405-15	48	500	3.1	1500	14	10.8	0.13	0.18	0.22	12.4	560	2.1	1.5	2500	6
KY110AS0207-15	24	750	4.77	1500	41	16.6	1.13	0.92	0.11	11	740	1.6	3.3	2500	6.6
KY110AS0408-15	48	800	5	1500	22	17.9	0.11	0.05	0.23	15.6	740	1.8	1.8	2500	6.6
KY110AS0210-15	24	1000	6.3	1500	55	21.4	0.027	0.09	0.14	15.1	1070	2.1	3.6	2500	10
KY110AS0410-15	48	1000	6.3	1500	28	22	0.11	0.05	0.225	15.6	740	2.1	1.8	2500	7.8
KY110AS0412-12	48	1200	4.5	2500	33	15.7	0.04	0.26	0.13	24	740	2.8	1.7	2500	7.8
KY110AS0415-15	48	1500	9.5	1500	37.5	28	0.02	0.13	0.25	24	1070	2.7	1.8	2500	10
KY110AS0420-25	48	2000	7.6	2500	55	26	0.08	0.12	0.14	27.9	1070	3	2.1	2500	10
KY130AS0410-15	48	1000	6.3	1500	26	19	0.095	0.21	0.24	22	1600	3.9	3.0	2500	7.5
KY130AS0415-15	48	1500	9.55	1500	37.5	27	0.08	0.03	0.25	25	2400	3.4	3.2	2500	10
KY130AS0430-15	48	3000	19	1500	73	57	0.08	0.03	0.26	23.5	4800	4	3.4	2500	14.2

IV. Encoder Information



Electrical Parameter	Value
Output form (TTL)	Square Wave
Power Voltage (DV) V	$5V \pm 5\%$
Current Consumption (mA)	< 200
Output Voltage VH (V)	≥ 2.5
Output Voltage VL(V)	≤ 0.5
Max Response Frequency (KHZ)	0-350
Rise/fall time (ns)	≤ 200
Ambient Temperature ($^\circ\text{C}$)	-30~+85
Storage Temperature ($^\circ\text{C}$)	-40~+95
Weight (kg)	0.3
Protection grade	IP40
General Maximum Speed(rpm)	3000
Max speed(rpm)	6000
Starting Torque [N.m (25 $^\circ\text{C}$)]	5×10^{-3}
Inertia Moment(kg m 2)	5×10^{-6}
Shaft Max Load(N.m)	Radial Direction 10
Shaft Max Load(N.m)	Axial Direction 10
maximum permissible acceleration(Rad/S 2)	10000

Mechanical parameter

Max.slew speed	Starting Torque	Max. allow able load		Moment of inertia	Allow angular velocity
(r/min)	(25°C) (N.m)	Radial(N)	Axial(N)	(kg*m ²)	(Rad/s ²)
6000	≤5X10-3	10	10	≤1x10-6	10000

Wiring definition

Color	Red	Green	Gray	Yellow	Brown	Bule	Orange	Shell
Output	5V	A	B	Z	U	V	W	Shield
Color	Black	Whhite/Green	White/Gray	White/Yellow	White/Brown	White/Bule	White/Orange	
Output	0V	\overline{A}	\overline{B}	\overline{Z}	\overline{U}	\overline{V}	\overline{W}	

V. Brake



Cost-saving in a compact structure

Applied to various working conditions with high voltage-withstanding, qualified insulation,as well as F-class insulation(155°C).

Long service life guaranteed by applying wear-proof friction disc without lead and asbestos.

The installation aperture us optional for convenient installation.

Various installation ways to satisfy customer's requiremen

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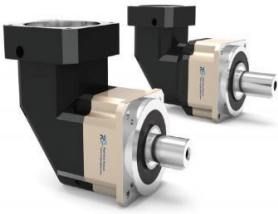
Precision Planetary Reducer



Size		Grade	Gear ratio	PGL060	PGL090	PGL115	PGL142
Rated output Torque T_{2n}	N.m	1	3	55	130	208	342
			4	50	140	290	542
			5	60	160	330	650
			7	50	140	300	550
			8	45	120	260	700
			10	23	48	140	370
		2	12	55	130	208	342
			15	55	130	208	342
			20	50	140	290	542
			25	60	160	330	650
			30	60	160	330	650
			35	60	160	330	650
			40	60	160	330	650
			50	60	160	330	650
			70	35	140	300	550
			80	35	120	260	500
			100	23	48	140	370

Max.output torque T_{2B}	N.m	1,2	3~100	3 times rated output torque			
Rated input speed n_1	rpm	1,2	3~100	5000	4000	4000	3000
Max. input speed n_{1B}	rpm	1,2	3~100	10000	8000	8000	6000
Precision backlash P1	arcmin	1	3~10	≤ 6	≤ 6	≤ 6	≤ 6
		2	12~100	≤ 8	≤ 8	≤ 8	≤ 8
Standard backlash P2	arcmin	1	3~10	≤ 8	≤ 8	≤ 8	≤ 8
		2	12~100	≤ 10	≤ 10	≤ 10	≤ 10
Torque stiffness F_{2rB}^2	N.m/arcmin	1	3~100	7	14	25	50
Allowable radial force F_{2a1B}^2	N	2	3~100	1530	3250	6700	9400
Allowable axial force F_{2a2B}^2	N	1,2	3~100	630	1300	3000	4000
Allowable axial force	N	1,2	3~100	765	1625	3350	4700
Service life	Hr	1,2	3~100	20000*			
Efficiency	%	1	3~10	$\geq 97\%$			
		2	12~100	$\geq 94\%$			
Weight	kg	1	3~10	1.3	3.7	7.8	14.5
		2	12~100	1.9	4.1	9	17.5
operating temperature	$^{\circ}\text{C}$	1,2	3~100	-10 $^{\circ}\text{C}$ -+90 $^{\circ}\text{C}$			
lubrication		1,2	3~100	Synthetic lubricating oil and grease			
IP Grade		1,2	3~100	IP65			
Installation direction		1,2	3~100	Arbitrary direction			
Noise level $n_1=3000\text{rpm}$	dB	1,2	3~100	≤ 58	≤ 60	≤ 63	≤ 65

Right Angle planetary reducer



Size		Grade	Gear ratio	PGRH 042	PGRH 060	PGRH 090	PGRH 115	PGRH 142
Rated output Torque T_{2n}	N.m	1	3	20	55	130	208	342
			4	19	50	140	290	542
			5	22	60	160	330	650
			6	20	55	150	310	600
			7	19	35	140	300	550
			8	17	35	120	260	700
			10	14	23	48	140	370
			14	--	35	140	300	550
			20	--	23	48	140	370
		2	15	20	55	130	208	342
		20	19	50	140	290	542	
		25	22	60	160	330	650	
		30	22	60	160	330	650	
		35	22	60	160	330	650	
		40	22	60	160	330	650	
		50	22	60	160	330	650	
70	22	60	160	300	650			
80	22	60	160	330	650			

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			100	22	60	160	330	650
			120	--	--	150	310	600
			140	--	--	140	300	550
			160	--	--	120	260	500
			200	--	--	48	140	370
Max.output torque T_{2B}	N.m	1,2	3~200	3 times rated output torque				
Rated input speed n_1	rpm	1,2	3~20	5000	5000	4000	4000	3000
Max. input speed n_{1B}	rpm	1,2	3~200	10000	10000	8000	8000	6000
Precision backlash P_0	arcmin	1	3~20	--	--	≤ 2	≤ 2	≤ 2
		2	15~200	--	--	≤ 4	≤ 4	≤ 4
Ultra precision backlash P_1	arcmin	1	3~20	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4
		2	15~200	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7
Standard backlash P_2	arcmin	1	3~20	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
		2	15~200	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
Torque stiffness F_{2rB^2}	N.m/arc min	1	3~100	3	7	14	25	50
Allowable radial force F_{2a1B^2}	N	2	3~100	780	1530	3250	6700	9400
Allowable axial force F_{2a2B^2}	N	1,2	3~100	350	630	1300	3000	4000
Allowable axial force	N	1,2	3~100	390	765	1625	3350	4700
Service life	Hr	1,2	3~100	20000*				
Efficiency	%	1	3~10	95				
		2	12~100	≥ 92				
Weight	kg	1	3~10	0.9	2.1	6.4	13	24.5
		2	12~100	1.2	1.5	7.8	14.2	27.5

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operating temperature	°C	1,2	3~100	-10°C -+90°C				
lubrication		1,2	3~100	Synthetic lubricating oil and grease				
IP Grade		1,2	3~100	IP65				
Installation direction		1,2	3~100	Arbitrary direction				
Noise level n ₁ =3000rpm	dB	1,2	3~100	≤61	≤63	≤65	≤68	≤70

Worm gear and worm reducer



Type: Worm Gear Speed Reducer

Model: NMRV30 NMRV40 MRV50 NMRV63 MRV75

Ratio: 1:7.5,10,15,20,25,30,40,50,60,80,100

Efficiency: 40%-50%

Color: Blue/Silver Or On Customer Request

Material: Housing: Die-Cast Aluminum Alloy

Worm Gear-Copper-10-3#Worm-20CrMn Ti with carburizing and quenching, surface hardness is 56-62HRC

Shaft-chromium steel-45#

Packing: Carton and Wooden Case

Bearing: C&U Bearing Seal:NAK SKF

Warranty: 1 Year

Input Power: 0.12kw,0.18kw,0.22kw,0.25kw,0.37kw,0.55kw,0.75kw,1.1kw,1.5kw,2.2kw,4kw, 5kw,7.5kw

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Usages: Industrial Machine: Food Stuff, Ceramics,CHEMICAL,Packing,Dyeing,

Lubricant: Synthetic&Mineral

Competitive Advantage:

1. Compact structure, high efficiency,
2. mechanical properties, heat exchanger,
3. easy installation, flexible connection form,
4. superior performance, easy maintenance,
5. transmission speed, torque, withstand high overload ability,
6. smooth operation, low noise, durable, probation, safety and reliability

Use and Safety Guarantee

1. Please check and confirm the matching intensity between worm gear reducer and mechanical equipment before use to assure that it is in the safety range of worm gear reducer performance parameters.
2. Worm gear reducer has filled with WA460 lubricating oil.Please replace the lubricating oil after the first starting of 400hours and after then 4000 hours for lubricating oil replacing cycle.
3. There should be enough lubrication in worm gear box and keep regular check with the oil level.
4. When installation,please be careful to avoid sharp instruments bruising the oil seals in output shaft to cause leakage.
5. Please confirm the rotation direction before mechanical connection.If the rotation direction is not correct,it will possible injury or damage the devices.
6. Please set safety covers in rotating position to avoid of injuring.

Helical-Hypoid Gear Units



TKM TKB series helical-hypoid gear units is a new generation of product. with a compromise of advanced technology both at home and aboard,its main feathens are as follows:

Driven by hypois gear,has big ratios

2. Large in output torque,high efficiency,energy saving and environmental production.

3. Made of high-quality aluminum alloy,light in weight and nonrusting.

4. Smooth in runing and low in noise,can work long time in dreadful conditions.

5. Goog-looking in appearance,durable in service life and small in volume.

6. Suitable for all round installation,wide application and easy of use.

7. Modulaw and multiatructure can meet the swmands of verious.

10. Gear Ratio:1:7.5,1:10,1:12.5,1:15,1:20,1:25,1:30,1:40,1:50,1:60,1:70,1:90,1:100,1:110,1:125,1:1:50,1:180

Relevant parameter:

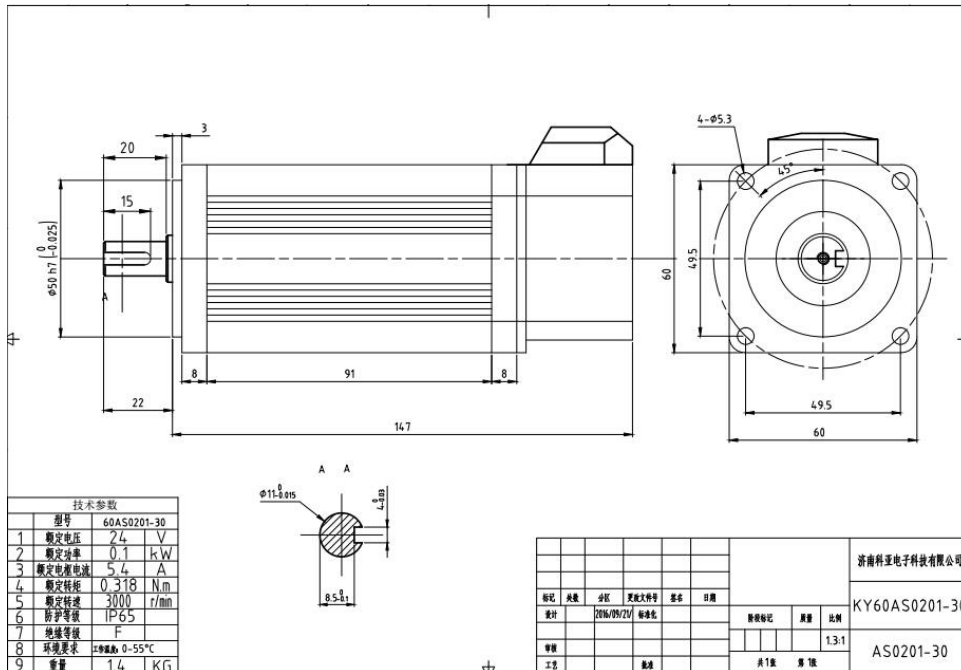
$$P_1 = \frac{P_2}{\eta} \text{ [kW]}$$
$$P_{1n} \geq P_1 \cdot f_s \text{ [kW]}$$

P_1	Input power
P_2	Output power
P_{1n}	Rated power driving motor
f_s	Service factor
η	Transmission efficiency

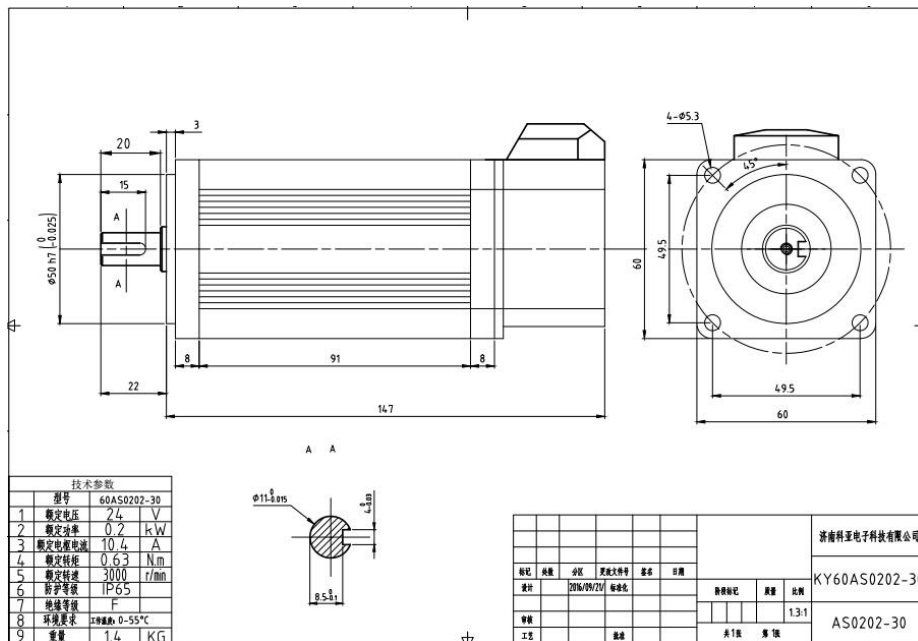
The efficiency of TKM, TKB gear units varies with the number of gear stages ,between 92% (2-stage), 90%(3-stage)

Motor drawing

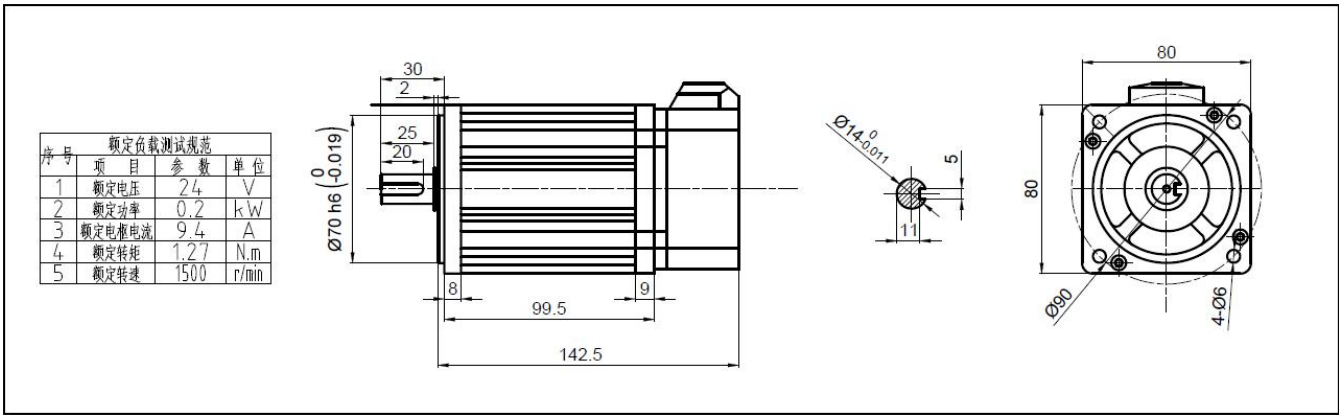
1. KY60AS0201-30



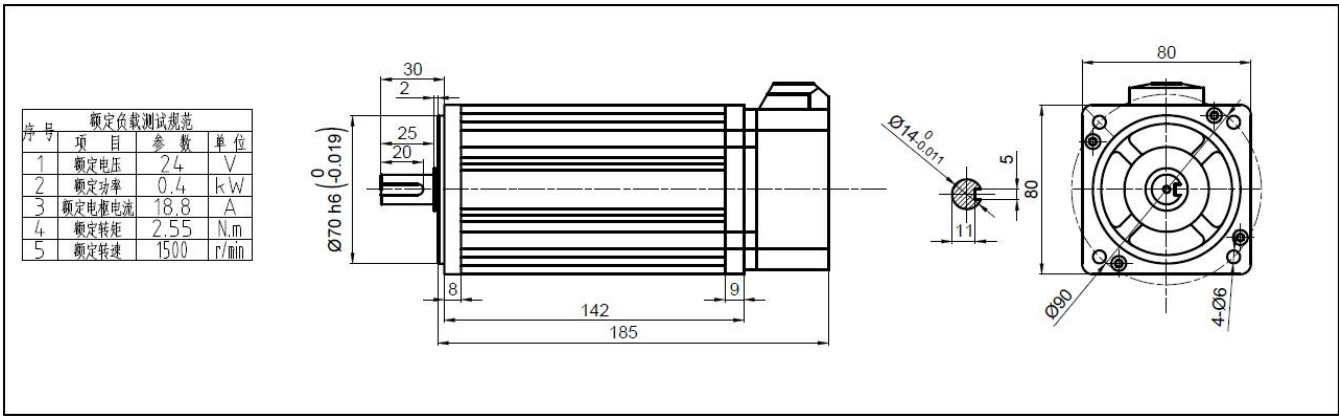
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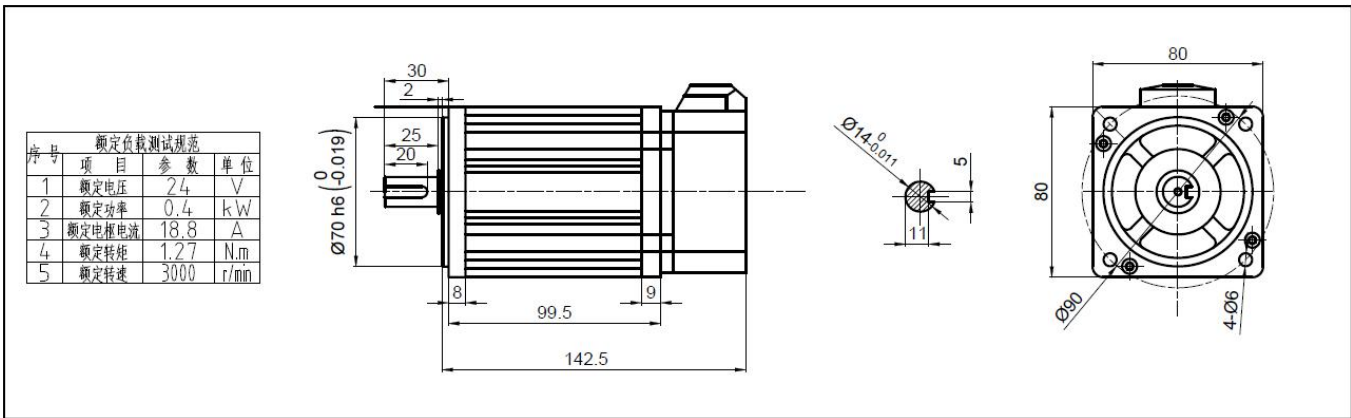
3. KY80AS0202-15



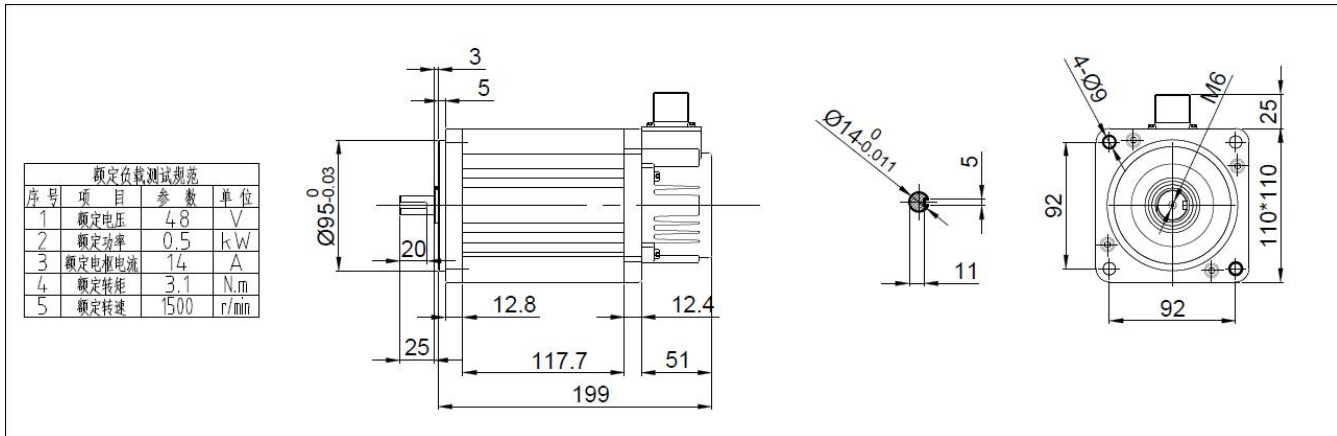
4. KY80AS0204-15



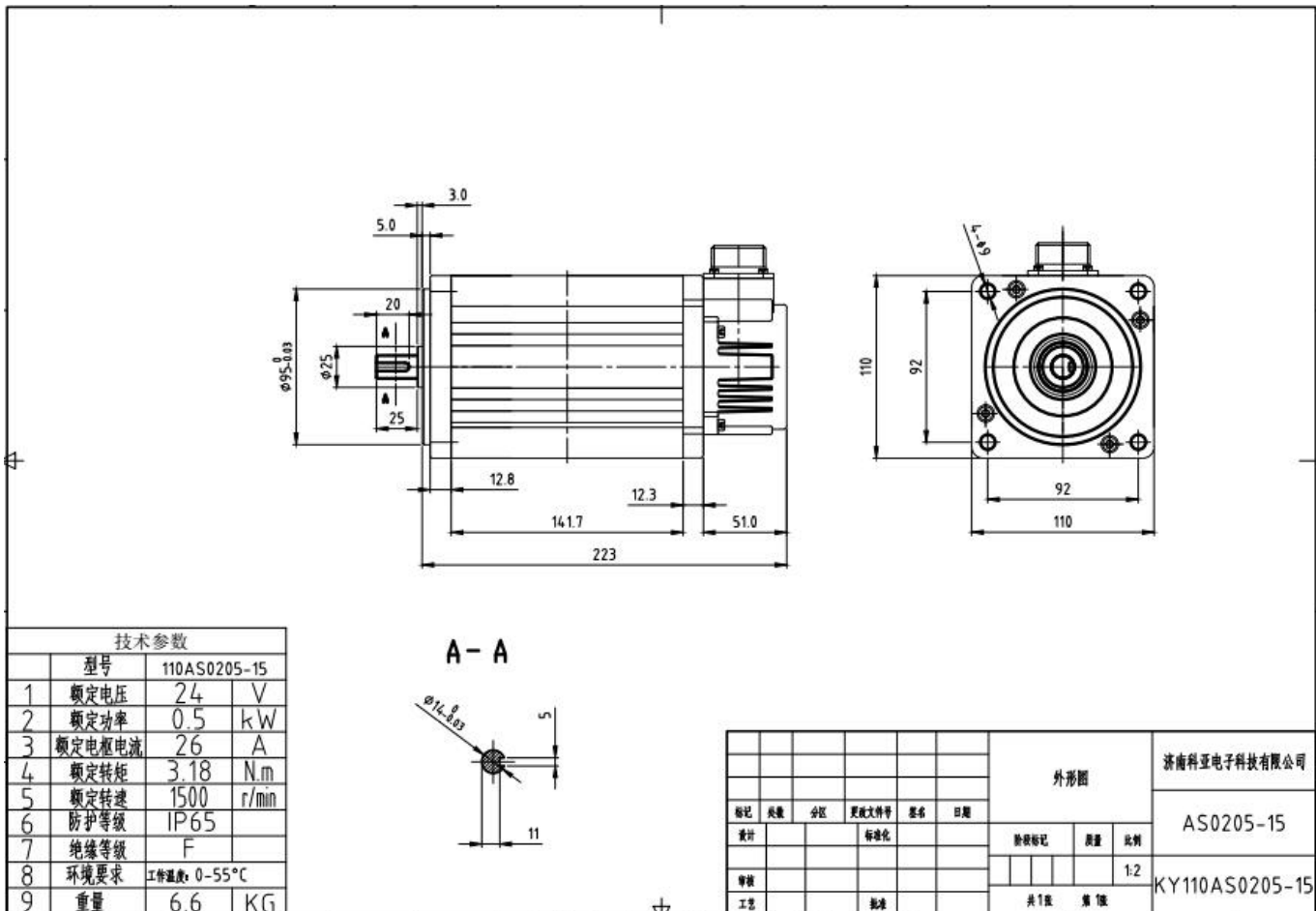
5. KY80AS0204-30



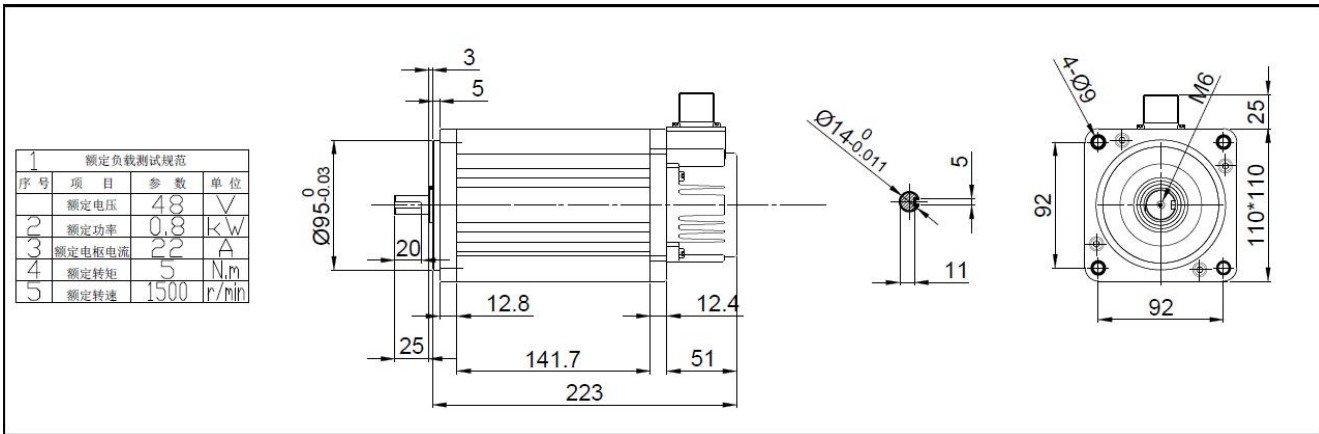
6. KY110AS0405-15



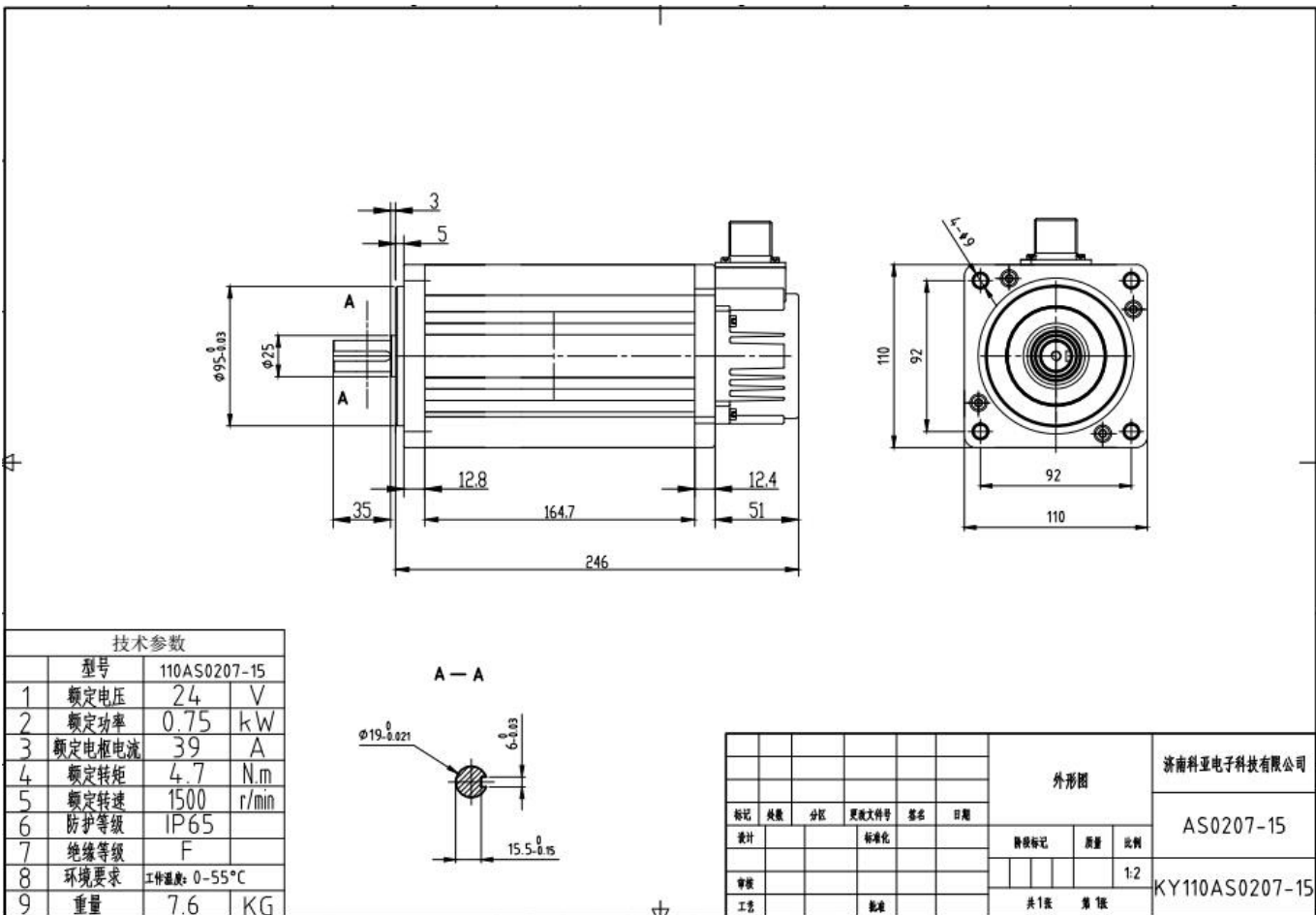
7. KY110AS0205-15



8. KY110AS0408-15

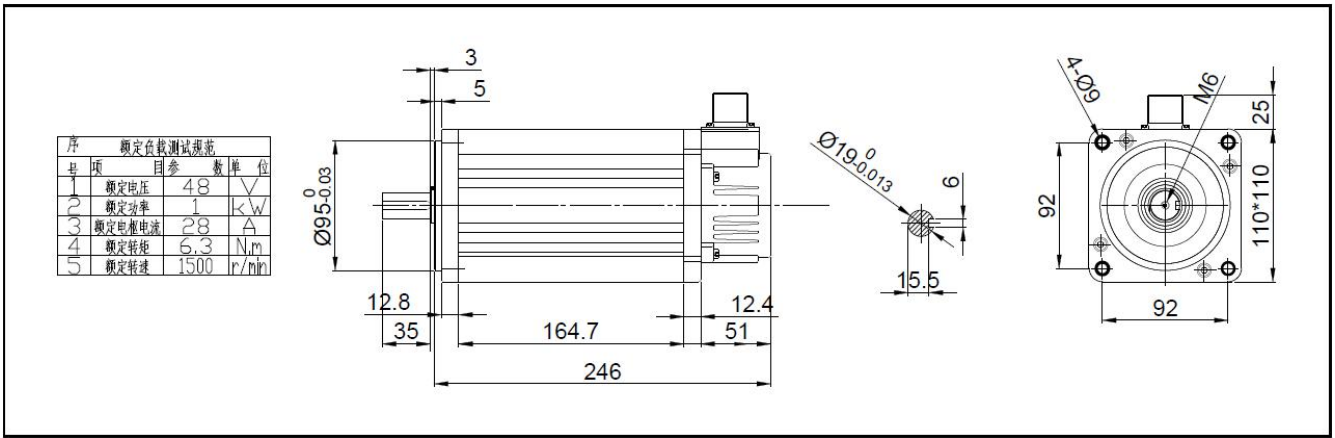


9. KY110AS0207-15

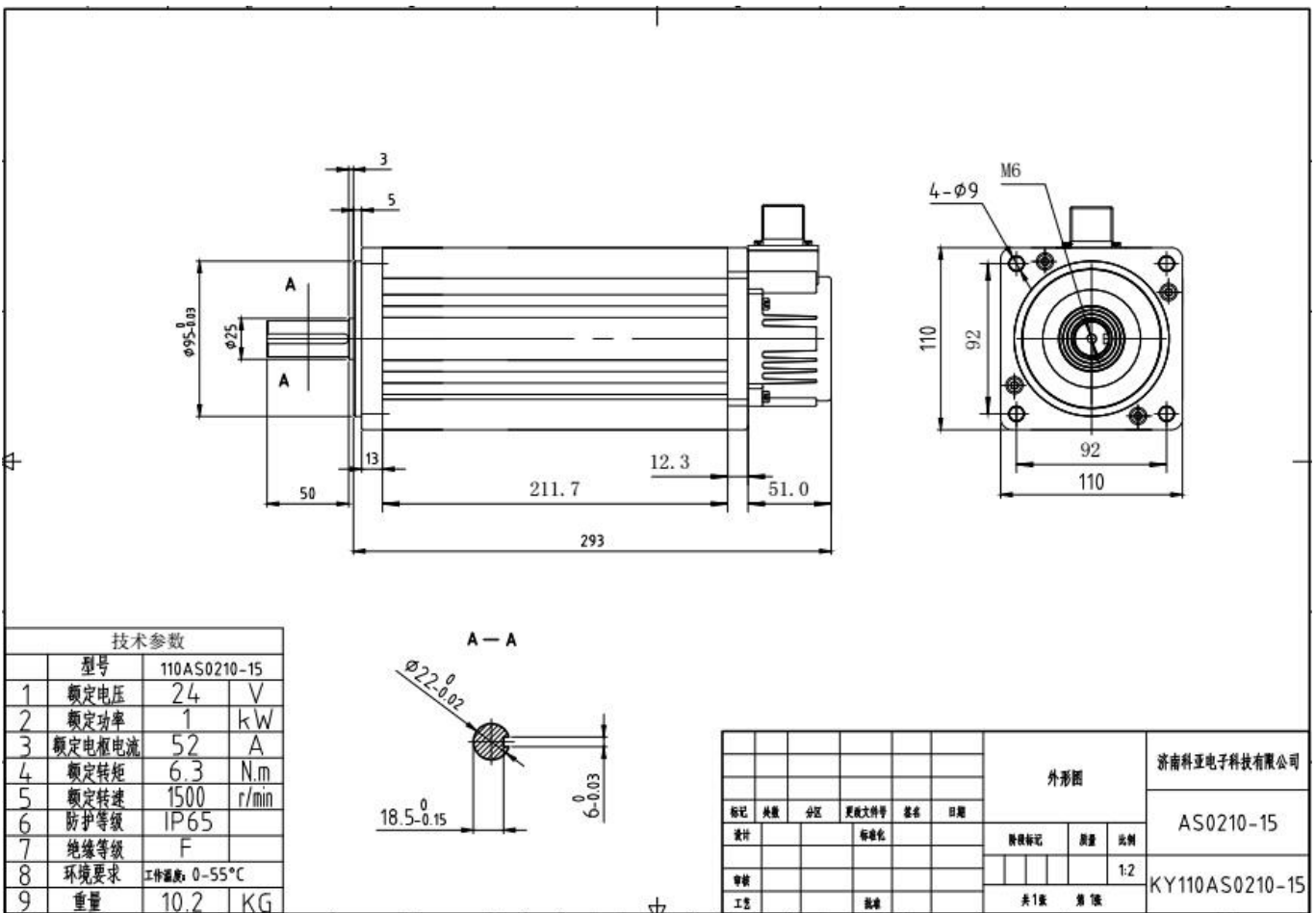


10. KY110AS0410-15

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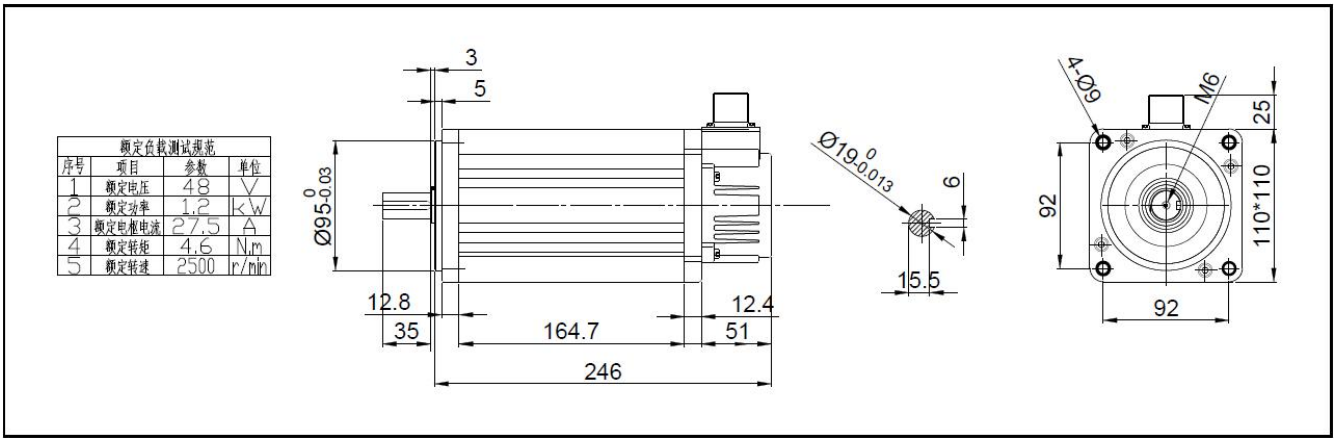


11. KY110AS0210-15

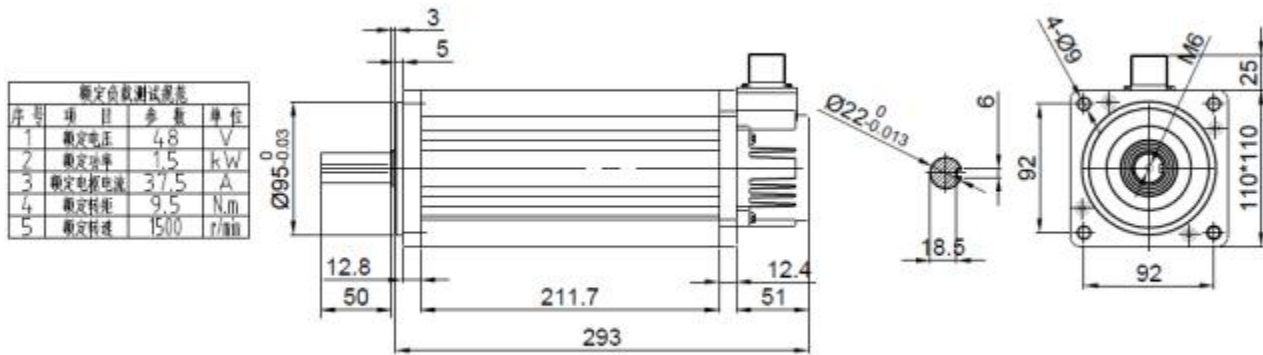


12. KY110AS0412-25

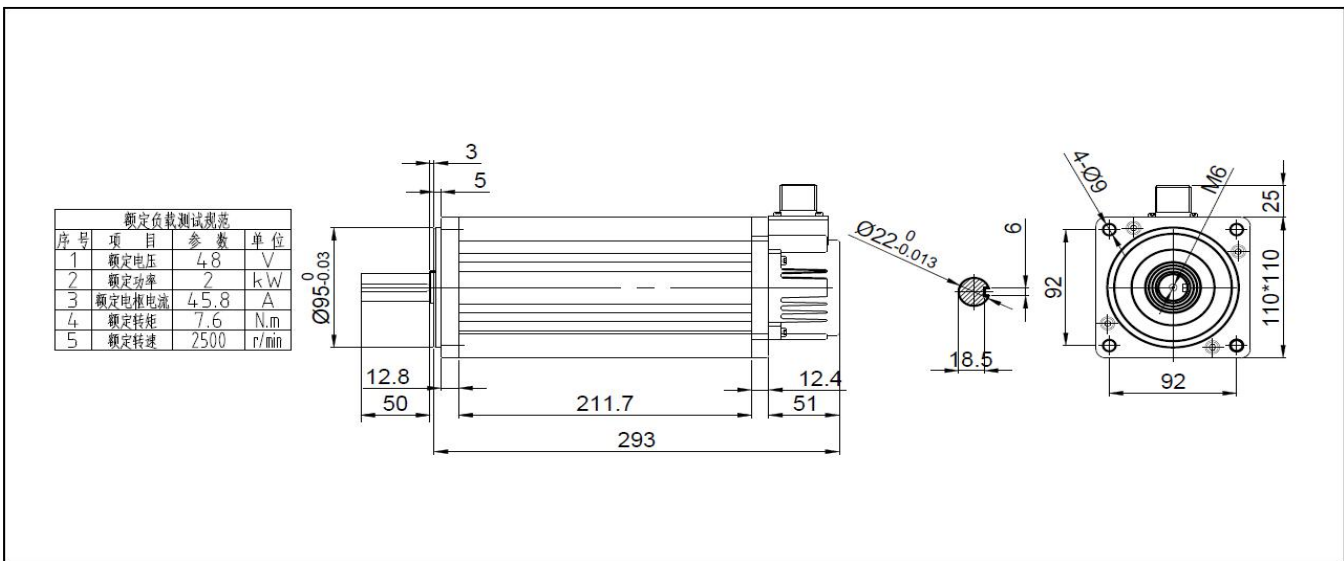
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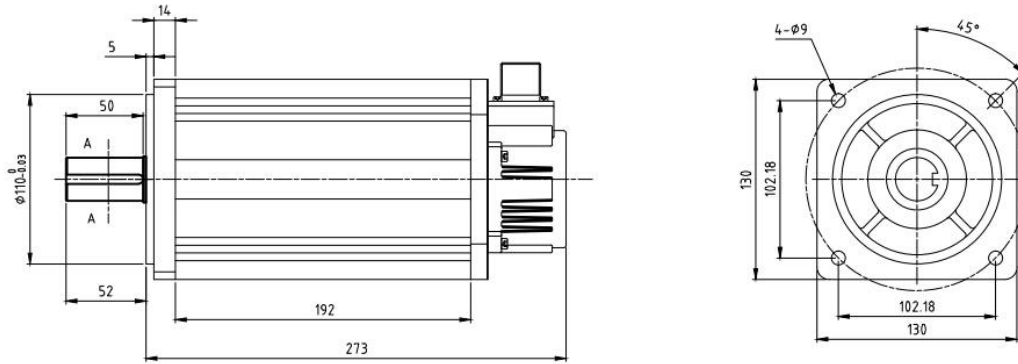
13. KY110AS0415-15



14. KY110AS0420-25

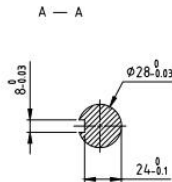


15. KY130AS0430-15



F

技术参数		
型号	130AS0430-15	
1 额定电压	48	V
2 额定功率	3	kW
3 额定电枢电流	73	A
4 额定转矩	19.1	N.m
5 额定转速	1500	r/min
6 防护等级	IP65	
7 绝缘等级	F	
8 环境要求	工作温度: 0-55°C	
9 重量	14.2	KG



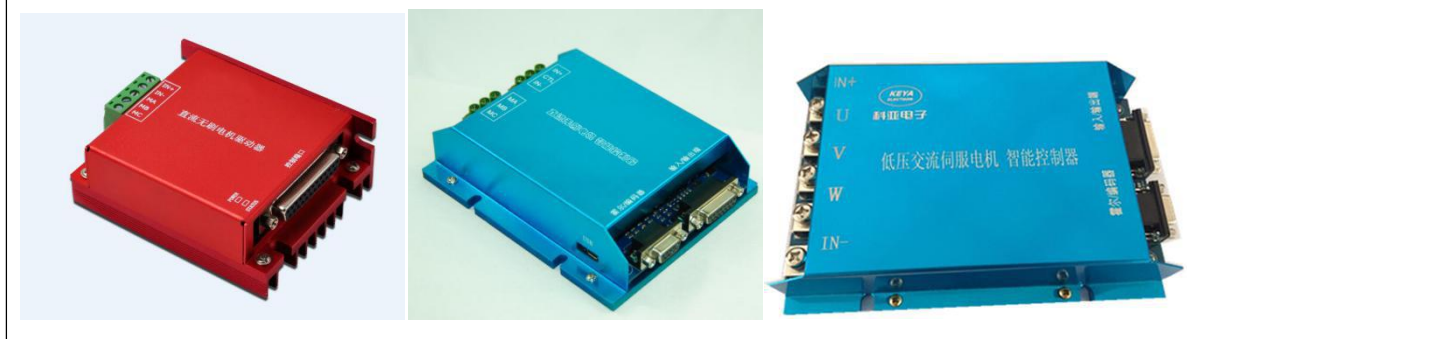
外形图						济南科亚电子科技有限公司		
标记	数量	分区	更改文件号	签名	日期	AS0430-15		
设计			标准化			数量标记	质量	比例
审核								1:2
工艺			检验			共1张	第1张	KY130AS0430-15

Matching Controller

INTELLIGENT SINGLE CHANNEL BLDC CONTROLLER

Model	Input Volt	Output Volt	Rated Amp	Max Amp	Control Mode	REGEN	Weight Dimension
KYDBL2430-1E	10-55VDC	0-55VDC	15A	30A	Potentiometer, 0-5V, PWM, CAN, RS232, R/C, CLK	YES	0.185KG 90*75*35mm
KYDBL4850-1E	10-55VDC	0-55VDC	25A	50A	Potentiometer, 0-5V, PWM, CAN, RS232, R/C, CLK	YES	0.80KG 148*117*40mm
KYDBL4875-1E	10-55VDC	0-55VDC	40A	75A	Potentiometer, 0-5V, PWM, CAN, RS232, R/C, CLK	YES	0.80KG 148*117*40mm

KYDBL48120-1 E	10-55VDC	0-55V	55A	120A	Potentiometer, 0-5V, PWM, CAN, RS232, R/C, CLK	YES	1.40KG 190*130*77mm
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It adopts 32-bit high-performance MCU, Advanced motion control algorithm is suitable to the outside of the quadrature encoder input to complete the open loop and closed loop speed, under the closed loop torque of motor sport. Controller with multiple analog input port, the pulse input port and digital I/O port, can through the special software to redefine its functions. Universal RS232 serial port communication, CAN bus, the USB communication, CAN be widely used in automation.

Wide-range voltage input, 10-55V.

Intelligent PID control loop.

Working mode: Speed open-loop, close-loop control, torque close-loop control, position close-loop control.

External potentiometer, 0-5V analog quantity or pulse command control mode, RC (pulse width signal outputted by the receiver of aeromodelling remote control) control mode.

Safety forward & reverse control, four-quadrant operation, support regeneration.

Enable control function.

Maximum current control.

4-way input port; the function can be defined as analog input, pulse input or digital input functions.

2-way digital (MOS tube open-drain) output, Generally as 24V 1A output (maximum load capacity of 40V 1A), can be used to loosen the brake or other attachments.

Abnormalities like overcurrent, overheating, overvoltage and short circuit will start the protection function.

LED status indicator.

CAN bus communication, see the detailed communication protocol when using it.

RS232 communication, see the detailed communication protocol when using it.

USB communication, see the detailed communication protocol when using it.

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INTELLIGENT DUAL CHANNEL BLDC CONTROLLER

Model	Input Volt	Output Volt	Rated Amp	Max Amp	Control Mode	REGEN	Weight Dimension
KYDBL2430-2E	10-55VDC	0-55VDC	15A	30A	Potentiometer, 0-5V, PWM, CAN, RS232, R/C, CLK	YES	0.60KG 142*116.5*34mm
KYDBL4850-2E	10-55VDC	0-55VDC	25A	50A	Potentiometer, 0-5V, PWM, CAN, RS232, R/C, CLK	YES	1.0KG 190*130*40mm
KYDBL4875-2E	10-55VDC	0-55VDC	40A	100A	Potentiometer, 0-5V, PWM, CAN, RS232, R/C, CLK	YES	1.75KG 190*130*77mm



Intelligent brushless DC dual-motor controller. The brushless dual-motor driver can control two brushless DC motors at the same time. It adopts 32-bit high-performance MCU and advanced movement processing algorithm to realize internal electric differential function. The controller uses the Hall signal inside the motor as the rotor position feedback and works with the external incremental encoder (1000—2500 line) signal to control the movement of motor, realizing speed open-loop, close-loop modes, position mode and torque mode. **It has two-way independent driver chip, two-way encoder processing chip, two-way Hall signal processing chip.** Meanwhile, it has multiple failure alarm functions. It has two working modes: independent mode and mixed mode.

Independent mode: It can realize fully independent control of two-way motor, and the control signal part is controlled by two-way input signals. Two-way brushless DC motor can control the speed and direction of motor, separately.

Mixed mode: It can realize the synchronous control (forward, backward, left and right rotation) of two brushless motors.

The control signal has as many as 8 modes (wireless remote control, rocker, potentiometer, analog quantity, frequency, pulse width, RS232, CAN bus).

* Wide-range voltage input, 10-55V, max current 60V.

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- * Intelligent PID control loop.
- * Working mode: Speed open-loop, close-loop control, torque close-loop control, position close-loop control.
- * External potentiometer, 0-5V analog quantity or pulse command control mode, RC (pulse width signal outputted by the receiver of aeromodelling remote control) control mode.
- * Safety forward & reverse control, four-quadrant operation, support regeneration.
- * Enable control function.
- * Maximum current control.
- * 4-way input port; the function can be defined as analog input, pulse input or digital input functions.
- * 6-way digital (MOS tube open-drain) output, which can serve as the failure alarm status output of controller and can control the external relay to realize actions such as automatic disconnection of power.
- * Abnormalities like overcurrent, overheating, overvoltage and short circuit will start the protection function.
- * LED status indicator.
- * CAN bus communication, see the detailed communication protocol when using it.
- * RS232 communication, see the detailed communication protocol when using it.
- * USB communication, see the detailed communication protocol when using it.

Model	Unit Price USD\$	Single channal Controller model	Unit price USD\$	Dual channal Controller model	Unit price USD\$
KY60AS0201-30		KYDBL2430-1E		KYDBL2430-2E	
KY60AS0202-30		KYDBL2430-1E		KYDBL2430-1E	
KY80AS0202-15		KYDBL2430-1E		KYDBL2430-2E	
KY80AS0204-15		KYDBL2450-1E		KYDBL2450-2E	
KY80AS0204-30		KYDBL2450-1E		KYDBL2450-2E	
KY110AS0405-15		KYDBL4830-1E		KYDBL4830-2E	
KY110AS0408-15		KYDBL4850-1E		KYDBL4850-2E	
KY110AS0410-15		KYDBL4850-1E		KYDBL4850-2E	
KY110AS0412-25		KYDBL4875-1E		KYDBL4875-2E	
KY110AS0415-15		KYDBL4875-1E		KYDBL4875-2E	
KY110AS0415-30		KYDBL4875-1E		KYDBL4875-2E	
KY110AS0420-25		KYDBL48120-1E			
KY130AS0430-15		KYDBL48300-1E			

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