



Shanghai TongYi Automation Technology Co., Ltd

IxLII/IxLs/IxH Series Low&High-Voltage Servo Driver Selection Guide

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1. Company Profile

Creating Value for Customers

Shanghai TongYi Automation Technology Co., Ltd. was established in November 2014, originating from the Robotics and Intelligent Systems Research Laboratory of Tongji University. The company is headquartered in Shanghai and has production and research centers in Suzhou and Changzhou. The company's mission is to create value for customers and focuses on the research and development of industrial controllers and drive systems, providing complete solutions for industrial automation equipment. The company's main products include low-voltage (DC) servo motors, low-voltage (DC) servo drives, industrial controllers, remote I/O, AGV steering wheel and other independent brand products, serving more than 1000 customers. The products are widely used in mobile robots, heavy-duty AGVs, unmanned forklifts, inspection robots, medical equipment, collaborative robots, servo presses, corrugated packaging and other industries.

The company adheres to the concept of technological innovation and currently has a team of dozens of R&D and industry application engineers. In 2016, the company was selected as one of the "Top 50 Entrepreneurs with the Most Investment Potential in Shanghai", and in 2017, it was selected as a "National High tech Enterprise" and "Academician Expert Workstation" in Shanghai. In 2018, it was awarded the "Excellent Enterprise Award" by the Growth Group of the National Innovation and Entrepreneurship Competition, the "Technology Giant Enterprise in YangPu District, Shanghai", and the "Top 30 Manufacturing New Power Enterprises in China" selected by Yiou.

On a global scale, the demand for industrial controllers, drives, and other automation industries is increasing. We hope to collaborate with global partners to supply and contribute to the development of the global manufacturing industry.

2. IxLII/IxLs/IxH Series Servo Driver Introduction

➤ Introduction of IxLII Series Low-Voltage Servo Driver



- ◆ Peak Output Current(A): 500A
- ◆ Input Voltage Range: 20~ 120VDC
- ◆ Supporting Motor: Three phase(BLDC, PMSM)、Single phase(Brushed)
- ◆ Supporting Bus: Modbus/CanOpen/EtherCAT
- ◆ Supporting Feedback: Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors, Resolver
- ◆ Dual- STO architecture achieves up to PL=D, category 2 functional

➤ Introduction of IxLS Series Low-Voltage Servo Driver



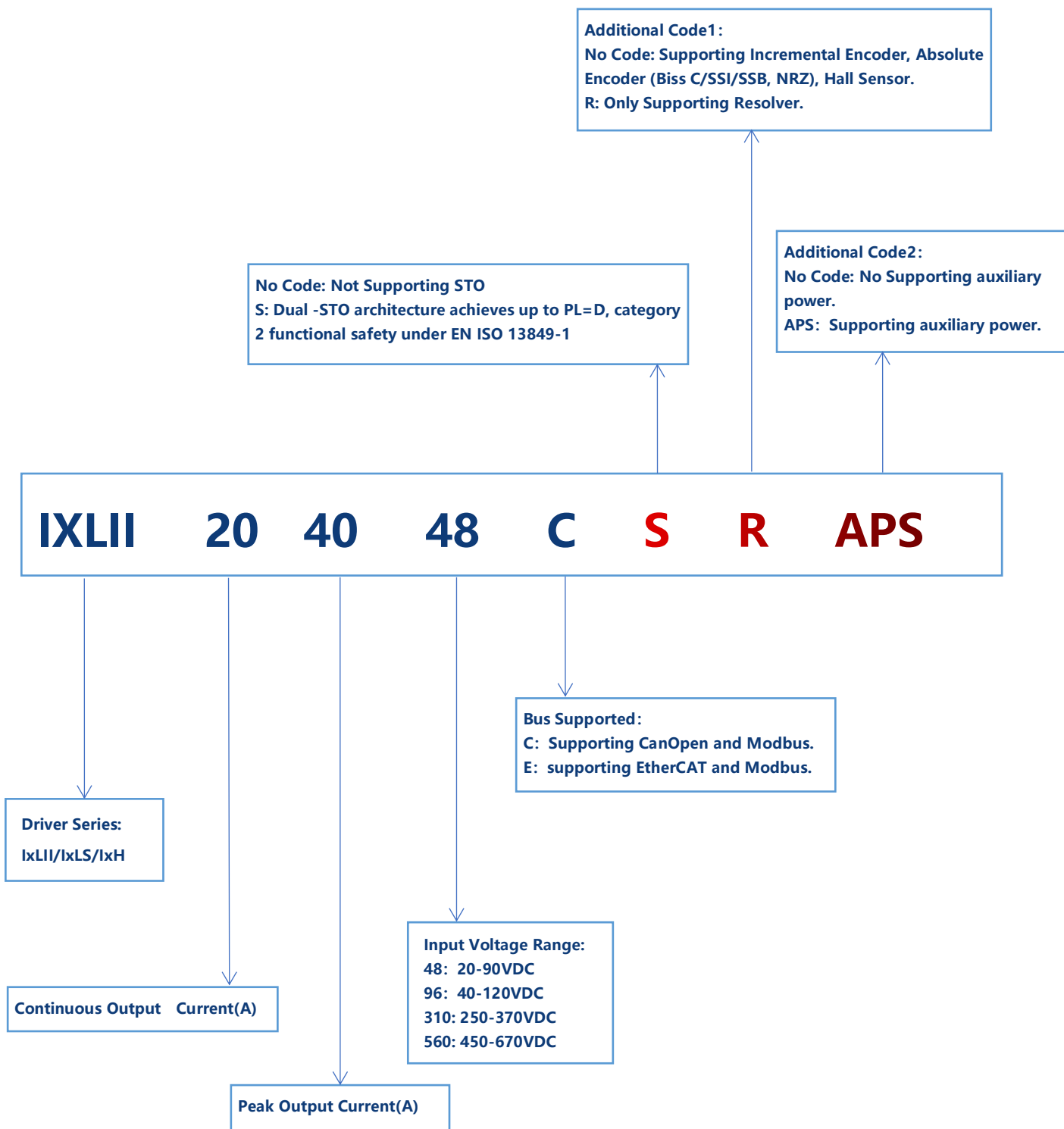
- ◆ Peak Output Current(A): 30A
- ◆ Input Voltage Range: 20~90VDC
- ◆ Supporting Motor: Three phase(BLDC, PMSM)、Single phase(Brushed)
- ◆ Supporting Bus: Modbus/CanOpen
- ◆ Supporting Feedback: Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors

➤ Introduction of IxH Series High-Voltage Servo Driver



- ◆ Peak Output Current(A): 30A
- ◆ Input Voltage Range: 250-650VDC
- ◆ Supporting Motor: Three phase(BLDC, PMSM)、Single phase(Brushed)
- ◆ Supporting Bus: Modbus/CanOpen/EtherCAT
- ◆ Supporting Feedback: Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors, Resolver

2.1. Driver Model Definition



3. IxLII Series Low-Voltage Servo Drive

3.1. IxLII Series Servo Driver Electrical Features

Electrical features of IxLII series low-voltage servo driver								
Model	IxLII 20.40	IxLII 25.50	IxLII 30.60	IxLII 35.70	IxLII 40.80	IxLII 50.100	IxLII 70.140	IxLII 80.160
Input Voltage Range	20-110VDC	40-120VDC	20-90VDC	40-120VDC	20-	20-90VDC	40-120VDC	20-90VDC
Maximum Continuous Output Current(A)	20	25	30	35	40	80	70	80
Peak Output Current(A)	40	50	60	70	80	160	140	160
PWM Frequency	10KHz							
Motors Supported	Three phase(BLDC、PMSM)、Single phase(Brushed)							
Inputs& Outputs	Analogy Input	2AI, -10V—+10V						
	Digital Input	8DO,12—30VDC						
	Digital Output	8DI,12—30VDC						
Bus Supported	Modbus	RS485 interface、Standard Modbus Protocol						
	CanOpen	Standard CanOpen Protocol, CiA301/402						
	EtherCAT	Standard CoE Protocol						
Feedback Supported	Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors,Resolver							
Control	Control Mode	PV、PT、PP、IP、CSP、CSV、CST						
	SBC&STO	No						
Ambient Parameters	Operation Place	Indoor, places free from direct sunlight, dust, corrosive gases, flammable gases, oil mist, anhydrous vapors, etc						
	Ambient	-40°C—50°C, Derating for use above 40 °C						
	Altitude	The altitude is below 1000m. Derating usage above 1000m						
	Relative Humidity	Below 95% RH, No condensation of water droplets						
	Vibration	Less than 0.5G (4.9m/s ²), less than 10Hz						
	Temperature	-40°C—70°C						
Cooling	Natural Cooling							
Size Model	2040	3060(2530)	3060(2530)	4080(3570)	4080(357)	80160(50100)	95200(70140)	80160(50100)
Weight(KG)	0.6	0.7	0.7	0.8	0.8	1.85	2	1.85

Electrical features of IxLII series low-voltage servo driver								
Model	IxLII 95.200	IXLII100.200	IxLII150.300	IxLII 250.500				
Input Voltage Range	20-90VDC	20-90VDC	20-120VDC	20-120VDC				
Maximum Continuous Output Current(A)	95	100	150	250				
Peak Output Current(A)	200	200	300	500				
PWM Frequency	10KHz							
Motors Supported	Three phase(BLDC、PMSM)、Single phase(Brushed)							
Inputs& Outputs	Analogy Input	2AI, -10V—+10V						
	Digital Input	8DO,12—30VDC						
	Digital Output	8DI,12—30VDC						
Bus Supported	Modbus	RS485 interface、Standard Modbus Protocol						
	CanOpen	Standard CanOpen Protocol, CiA301/402						
	EtherCAT	Standard CoE Protocol						
Feedback Supported	Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors,Resolver							
Control	Control Mode	PV、PT、PP、IP、CSP、CSV、CST						
	SBC&STO	No						
Ambient Parameters	Operation Place	Indoor, places free from direct sunlight, dust, corrosive gases, flammable gases, oil mist, anhydrous vapors, etc						
	Ambient	-40°C—50°C, Derating for use above 40 °C						
	Altitude	The altitude is below 1000m. Derating usage above 1000m						
	Relative Humidity	Below 95% RH, No condensation of water droplets						
	Vibration	Less than 0.5G (4.9m/s ²), less than 10Hz						
	Temperature	-40°C—70°C						
Cooling	Natural Cooling							
Size Model	95200(70140)	100200	150300	250500				
Weight(KG)	2	2	2.7	4.5				

3.2. IxLII Series Servo Driver Ordering Model

IxLII Series Servo Driver Ordering Model(CanOpen Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.C	20-90VDC	20	40	Incremental Encoder, Absolute Encoder (SSI/BISSB/BISSC,NRZ), Hall Sensors	Analog Input Pulse Modbus CanOpen	No	-40°-50°	2040
IxLII 20.40.96.C	40-120VDC							
IxLII 25.50.96.C	40-120VDC	25	50					3060
IxLII 30.60.48.C	20-90VDC	30	60					
IxLII 35.70.96.C	40-120VDC	35	70					4080
IxLII 40.80.48.C	20-90VDC	40	80					
IxLII 50.100.48.C	20-90VDC	50	100					80160
IxLII 70.140.96.C	40-120VDC	70	140					
IxLII 80.160.48.C	20-90VDC	80	160					95200
IxLII 95.200.48.C	20-90VDC	95	200					
IxLII 100.200.48.C	20-90VDC	100	200					100200
IxLII 150.300.48.C	20-90VDC	150	300					
IxLII 150.300.96.C	40-120VDC							
IxLII 250.500.48.C	20-90VDC	250	500					150300
IxLII 250.500.96.C	40-120VDC							

IxLII Series Servo Driver Ordering Model(EtherCAT Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.E	20-90VDC	20	40	Incremental Encoder, Absolute Encoder (SSI/BISSB/BISSC,NRZ), Hall Sensors	Analog Input Pulse Modbus EtherCAT	No	-40°-50°	2040
IxLII 20.40.96.E	40-120VDC							
IxLII 25.50.96.E	40-120VDC	25	50					3060
IxLII 30.60.48.E	20-90VDC	30	60					
IxLII 35.70.96.E	40-120VDC	35	70					4080
IxLII 40.80.48.E	20-90VDC	40	80					
IxLII 50.100.48.E	20-90VDC	50	100					80160
IxLII 70.140.96.E	40-120VDC	70	140					
IxLII 80.160.48.E	20-90VDC	80	160					95200
IxLII 95.200.48.E	20-90VDC	95	200					
IxLII 100.200.48.E	20-90VDC	100	200					100200
IxLII 150.300.48.E	20-90VDC	150	300					
IxLII 150.300.96.E	40-120VDC							
IxLII 250.500.48.E	20-90VDC	250	500					150300
IxLII 250.500.96.E	40-120VDC							

IxLII Series Servo Driver Ordering Model(CanOpen&Resolver Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.C.R	20-90VDC	20	40	Resolver	Analog Input Pulse	No	-40°-50°	2040
IxLII 20.40.96.C.R	40-120VDC							
IxLII 25.50.96.C.R	40-120VDC	25	50					3060

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IxLII 30.60.48.C.R	20-90VDC	30	60		Modbus			
IxLII 35.70.96.C.R	40-120VDC	35	70		CanOpen			
IxLII 40.80.48.C.R	20-90VDC	40	80		4080			
IxLII 50.100.48.C.R	20-90VDC	50	100		80160			
IxLII 70.140.96.C.R	40-120VDC	70	140		95200			
IxLII 80.160.48.C.R	20-90VDC	80	160		80160			
IxLII 95.200.48.C.R	20-90VDC	95	200		95200			
IxLII 100.200.48.C.R	20-90VDC	100	200		100200			
IxLII 150.300.48.C.R	20-90VDC	150	300		150300			
IxLII 150.300.96.C.R	40-120VDC							
IxLII 250.500.48.C.R	20-90VDC	250	500		250500			
IxLII 250.500.96.C.R	40-120VDC							

IxLII Series Servo Driver Ordering Model(EtherCAT&Resolver Supported)

Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.E.R	20-90VDC	20	40	Resolver	Analog Input Pulse Modbus EtherCAT	No	-40°-50°	2040
IxLII 20.40.96.E.R	40-120VDC							
IxLII 25.50.96.E.R	40-120VDC	25	50					3060
IxLII 30.60.48.E.R	20-90VDC	30	60					
IxLII 35.70.96.E.R	40-120VDC	35	70					4080
IxLII 40.80.48.E.R	20-90VDC	40	80					
IxLII 50.100.48.E.R	20-90VDC	50	100					80160
IxLII 70.140.96.E.R	40-120VDC	70	140					
IxLII 80.160.48.E.R	20-90VDC	80	160					95200
IxLII 95.200.48.E.R	20-90VDC	95	200					
IxLII 100.200.48.E.R	20-90VDC	100	200					100200
IxLII 150.300.48.E.R	20-90VDC	150	300					
IxLII 150.300.96.E.R	40-120VDC							
IxLII 250.500.48.E.R	20-90VDC	250	500					250500
IxLII 250.500.96.E.R	40-120VDC							

3.3. IxLII Series Safety Servo Driver Electrical Features

Electrical features of IxLII Series Safety Servo Drivers					
Model	IxLII 20.40	IxLII 30.60	IxLII 40.80	IxLII 100.200	IxLII 150.300
Input Voltage Range	20-72VDC	20-72VDC	20-72VDC	20-72VDC	20-72VDC
Maximum Continuous Output Current(A)	20	30	30	100	150
Peak Output Current(A)	40	60	60	200	300
PWM Frequency	10KHz				
Motors Supported	Three phase(BLDC、PMSM)、Single phase(Brushed)				
Inputs&Outputs	Analogy Input	2AI, -10V—+10V			
	Digital Input	8DO,12—30VDC			
	Digital Output	8DI,12—30VDC			
Bus Supported	Modbus	RS485 interface、Standard Modbus Protocol			
	CanOpen	Standard CanOpen Protocol, CIA301/402			
	EtherCAT	Standard CoE Protocol			
Feedback Supported	Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors,Resolver				
Control	Control Mode	PV、PT、PP、IP、CSP、CSV、CST			
	SBC&STO	Dual STO architectures up to PL=D, category 2 functional safety under EN ISO 13849-1			
Ambient Parameters	Operation Place	Indoor, places free from direct sunlight, dust, corrosive gases, flammable gases, oil mist, anhydrous vapors, etc			
	Ambient Operating	-40°C—50°C, Derating for use above 40 °C			
	Altitude	The altitude is below 1000m. Derating usage above 1000m			
	Relative Humidity	Below 95% RH, No condensation of water droplets			
	Vibration	Less than 0.5G (4.9m/s ²), less than 10Hz			
	Storage Temperature	-40°C—70°C			
	Cooling	Natural Cooling			
Size Model	2040	3060(2530)	3060(2530)	95200(60120)	150300
Weight (KG)	0.6	0.7	0.8	1.95	2.75

3.4. IxLII Series Safety Servo Driver Ordering Model

IxLII Series Safety Driver Ordering Model(CanOpen Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.C.S	20-72VDC	20	40	Incremental Encoder, Absolute Encoder (SSI/BISSB/BISSC,NRZ), Hall Sensors	Analog	ISO13849-1, PL d	-40°-50°	2040
IxLII 30.60.48.C.S	20-72VDC	30	60		Input			3060
IxLII 40.80.48.C.S	20-72VDC	40	80		Pulse			4080
IxLII 100.200.48.C.S	20-72VDC	100	200		Modbus			95200
IxLII 150.300.48.C.S	20-72VDC	150	300		CanOpen			150300

IxLII Series Safety Driver Ordering Model(EtherCAT Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.E.S	20-72VDC	20	40	Incremental Encoder, Absolute Encoder (SSI/BISSB/BISSC,NRZ), Hall Sensors	Analog	ISO13849-1, PL d	-40°-50°	2040
IxLII 30.60.48.E.S	20-72VDC	30	60		Input			3060
IxLII 40.80.48.E.S	20-72VDC	40	80		Pulse			4080
IxLII 100.200.48.E.S	20-72VDC	100	200		Modbus			95200
IxLII 150.300.48.E.S	20-72VDC	150	300		EtherCat			150300

IxLII Series Safety Driver Ordering Model(CanOpen&Resolver Supported)

Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.C.R.S	20-72VDC	20	40	Resolver	Analog	ISO13849-1, PL d	-40°-50°	2040
IxLII 30.60.48.C.R.S	20-72VDC	30	60		Input			3060
IxLII 40.80.48.C.R.S	20-72VDC	40	80		Pulse			4080
IxLII 100.200.48.C.R.S	20-72VDC	100	200		Modbus			95200
IxLII 150.300.48.C.R.S	20-72VDC	150	300		CanOpen			150300

IxLII Series Safety Driver Ordering Model(EtherCat&Resolver Supported)

Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLII 20.40.48.E.R.S	20-72VDC	20	40	Resolver	Analog	ISO13849-1, PL d	-40°-50°	2040
IxLII 30.60.48.E.R.S	20-72VDC	30	60		Input			3060
IxLII 40.80.48.E.R.S	20-72VDC	40	80		Pulse			4080
IxLII 100.200.48.E.R.S	20-72VDC	100	200		Modbus			95200
IxLII 150.300.48.E.R.S	20-72VDC	150	300		EtherCat			150300

4. IxLs Series Low-Voltage Servo Driver

4.1. IxLs Series Servo Driver Electrical Features

Electrical features of IxLs series low-voltage servo driver		IxLs 15.30	IxLs 30.60		
Model					
Input Voltage Range		20-90Vdc			
Maximum Continuous Output Current(A)		15	30		
Peak Output Current(A)		30	60		
PWM Frequency		10KHz			
Motors Supported		Three phase(BLDC、PMSM)、Single phase(Brushed)			
Inputs&Outputs	Analogy Input	2AI, -10V—+10V			
	Digital Input	8DO,12—30VDC			
	Digital Output	8DI,12—30VDC			
Bus Supported	Modbus	RS485 interface、Standard Modbus Protocol			
	CanOpen	No			
	EtherCAT	Standard CoE Protocol			
Feedback Supported		Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors			
Control	Control Mode	PV、PT、PP、IP、CSP、CSV、CST			
	SBC&STO	NO			
Ambient Parameters	Operation Place	Indoor, places free from direct sunlight, dust, corrosive gases, flammable gases, oil mist, anhydrous vapors, etc			
	Ambient Operating	-40°C—50°C, Derating for use above 40 °C			
	Altitude	The altitude is below 1000m. Derating usage above 1000m			
	Relative Humidity	Below 95% RH, No condensation of water droplets			
	Vibration	Less than 0.5G (4.9m/s ²), less than 10Hz			
	Storage Temperature	-40°C—70°C			
	Cooling	Natural Cooling			
Size Model		IxLs15030	IxLs3060		
Weight (KG)		0.25	0.4		

4.2. IxLs Series Servo Driver Ordering Model

IxLs Series Servo Driver Ordering Model(CanOpen&Resolver Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxLs 15.30.48.C.S	20-90VDC	15	30	Incremental Encoder, Absolute Encoder (SSI/BISSB/BISSC,NRZ), Hall Sensors	Analog Input Pulse Modbus CanOpen	No	-40°-50°	IxLS15030
IxLs 30.60.48.C.S	20-90VDC	30	60		IxLS3060			

5. IxH Series High-Voltage Servo Drive

5.1. IxH Series Servo Driver Electrical Features

Electrical features of IxH series high-voltage servo driver					
Model		IxH 06.12.310	IxH 15.30.310	IxH 06.12.560	IxH 15.30.560
Input Voltage Range		250-370Vdc/AC220V		450-670Vdc/AC380V	
Maximum Continuous Output Current(A)		6	15	6	15
Peak Output Current(A)		12	30	12	30
PWM Frequency		10KHz			
Motors Supported		Three phase(BLDC、PMSM)、Single phase(Brushed)			
Inputs& Outputs	Analogy Input	2AI, -10V—+10V			
	Digital Input	8DO,12—30VDC			
	Digital Output	8DI,12—30VDC			
Bus Supported	Modbus	RS485 interface、 Standard Modbus Protocol			
	CanOpen	Standard CanOpen Protocol, CiA301/402			
	EtherCAT	Standard CoE Protocol			
Feedback Supported		Incremental Encoder,Absolute Encoder(SSI/BISSB/BISSC,NRZ), Hall Sensors, Resolver			
Control	Control Mode	PV、 PT、 PP、 IP、 CSP、 CSV、 CST			
	SBC&STO	No			
Ambient Parameters	Operation Place	Indoor, places free from direct sunlight, dust, corrosive gases, flammable gases, oil mist, anhydrous vapors,			
	Ambient Operating	-40°C—50°C, Derating for use above 40 °C			
	Altitude	The altitude is below 1000m. Derating usage above 1000m			
	Relative Humidity	Below 95% RH, No condensation of water droplets			
	Vibration	Less than 0.5G (4.9m/s2), less than 10Hz			
	Storage Temperature	-40°C—70°C			
	Cooling	Natural Cooling			
Size Model		IxH0612	IxH1530	IxH0612	IxH1530
Weight (KG)		4.15	4.5	4.15	4.5

5.2. IxH Series Servo Driver Ordering Model

IxH Series Servo Driver Ordering Model(CanOpen Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxH 06.12.310.C	250-370VDC 220VAC	6	12	Incremental Encoder, Absolute Encoder (SSI/BISSB/BISSC,NRZ), Hall Sensors	Analog Input Pulse Modbus CanOpen	NO	-40°-50°	IXH0612
IxH 06.12.560.C	450-670VDC 380VAC							
IxH 15.30.310.C	250-370VDC 220VAC	15	30					IXH1530
IxH 15.30.560.C	450-670VDC 380VAC							

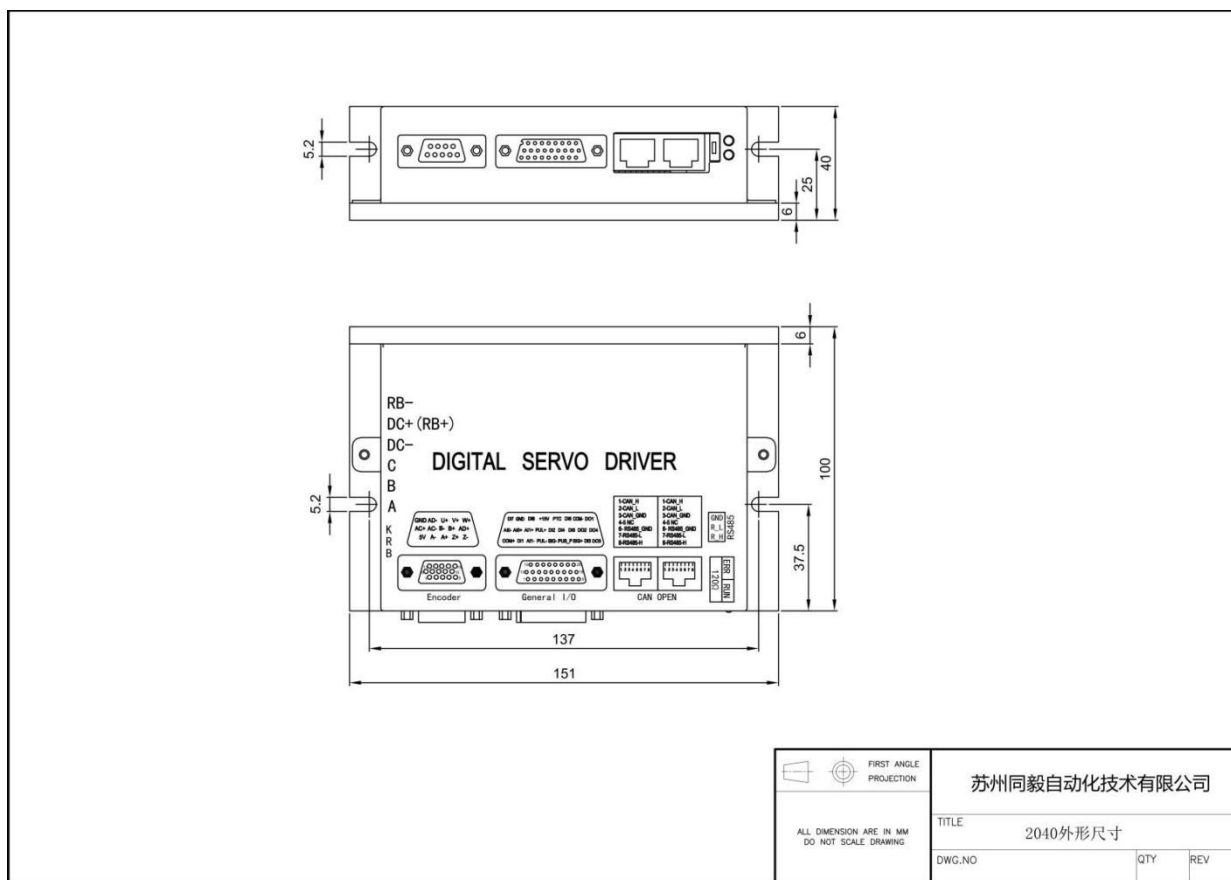
IxH Series Servo Driver Ordering Model(EtherCat Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxH 06.12.310.E	250-370VDC 220VAC	6	12	Incremental Encoder, Absolute Encoder (SSI/BISSB/BISSCNRZ), Hall Sensors	Analog Input Pulse Modbus EtherCat	NO	-40°-50°	IXH0612
IxH 06.12.560.E	450-670VDC 380VAC							
IxH 15.30.310.E	250-370VDC 220VAC	15	30					IXH1530
IxH 15.30.560.E	450-670VDC 380VAC							

IxH Series Servo Driver Ordering Model(CanOpen&Resolver Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxH 06.12.310.C.R	250-370VDC 220VAC	6	12	Resolver	Analog Input Pulse Modbus CanOpen	NO	-40°-50°	IXH0612
IxH 06.12.560.C.R	450-670VDC 380VAC							
IxH 15.30.310.C.R	250-370VDC 220VAC	15	30					IXH1530
IxH 15.30.560.C.R	450-670VDC 380VAC							

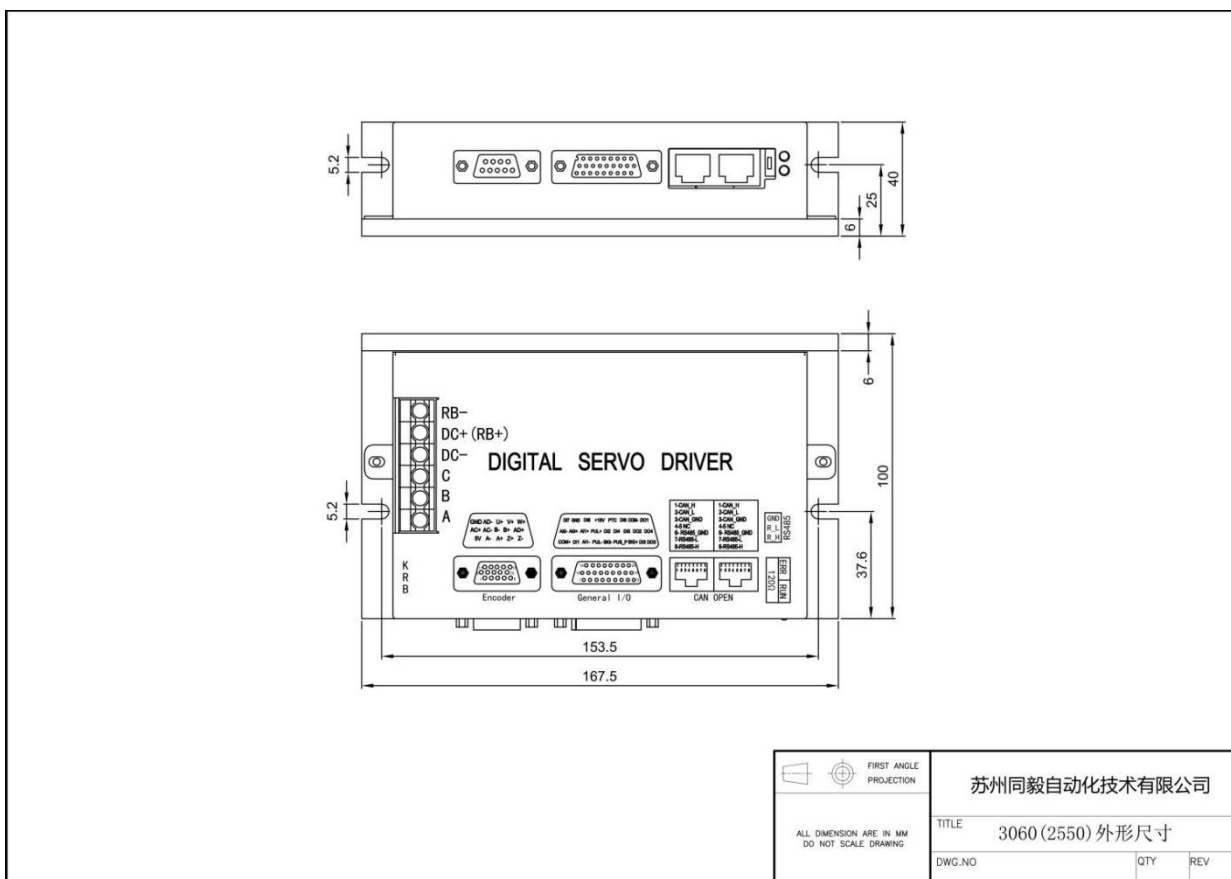
IxH Series Servo Driver Ordering Model(EtherCat&Resolver Supported)								
Ordering Model	Input Voltage	Continuous Current(A)	Peak Current(A)	Feedback Supported	Control Sources	Functional Safety (SBC&STO)	Operating Temperature	Size Model
IxH 06.12.310.E.R	250-370VDC 220VAC	6	12	Resolver	Analog Input Pulse Modbus EtherCat	NO	-40°-50°	IXH0612
IxH 06.12.560.E.R	450-670VDC 380VAC							
IxH 15.30.310.E.R	250-370VDC 220VAC	15	30					IXH1530
IxH 15.30.560.E.R	450-670VDC 380VAC							

6. Driver Shape and Size

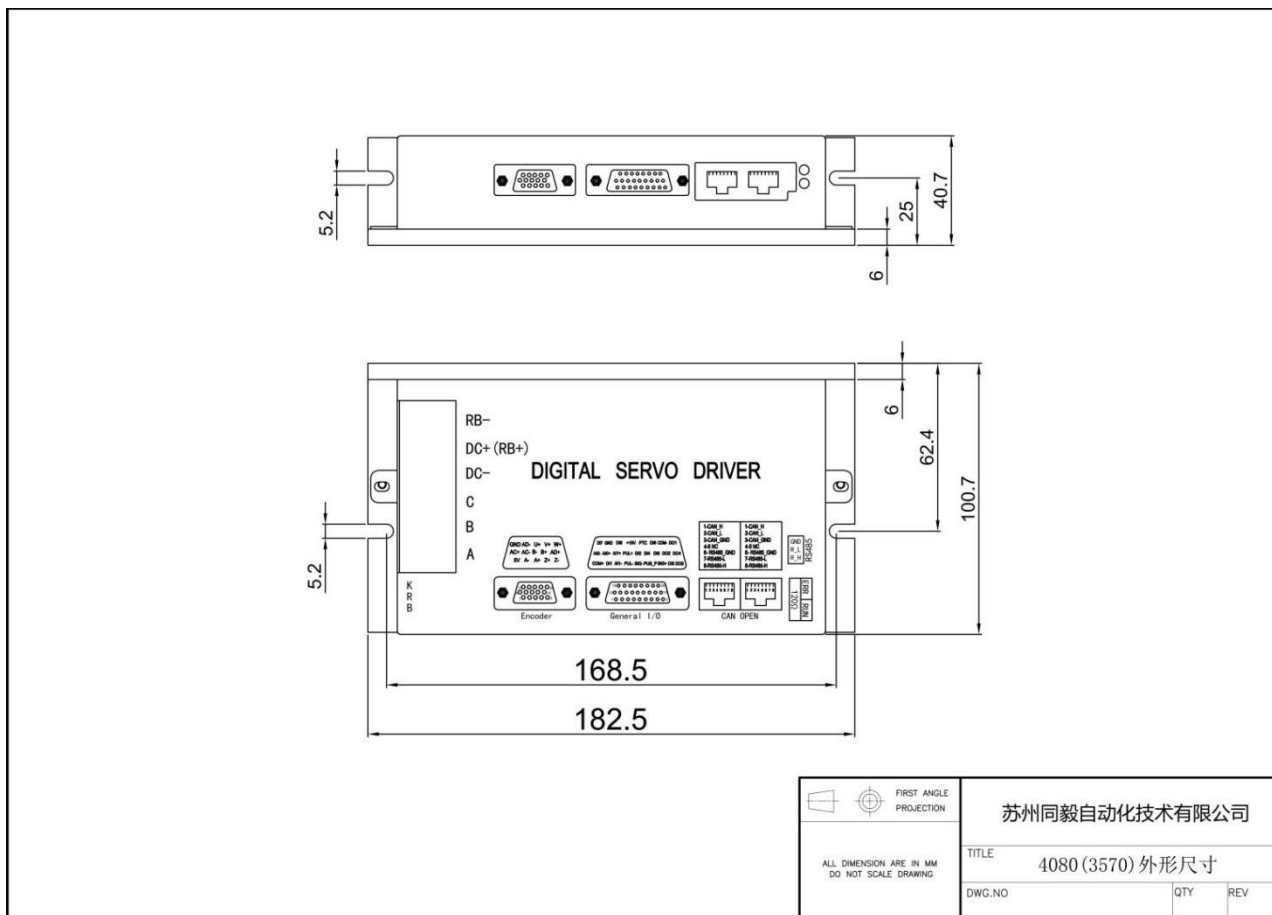
6.1. SIZE: 2040



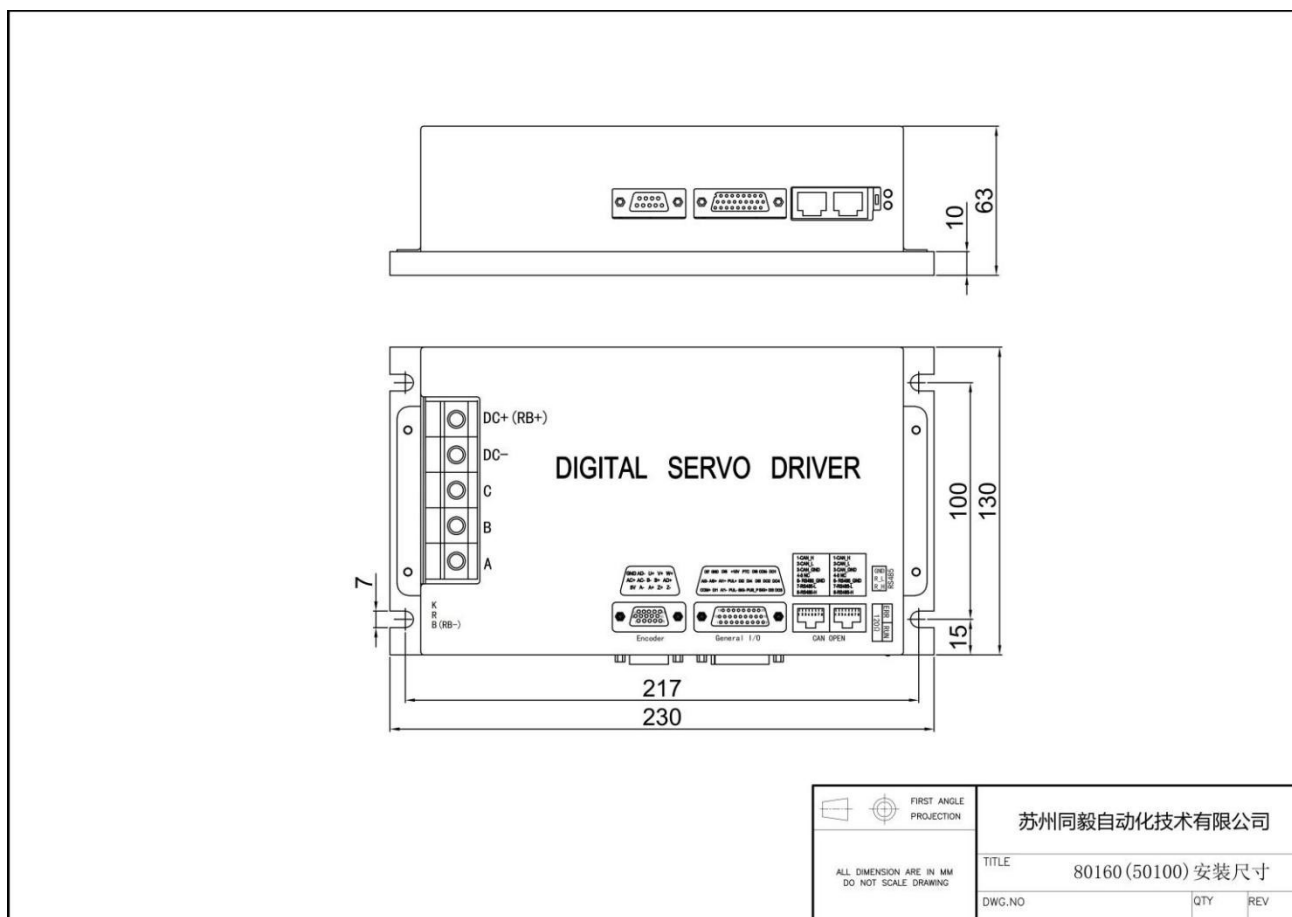
6.2. SIZE: 3060(2550)



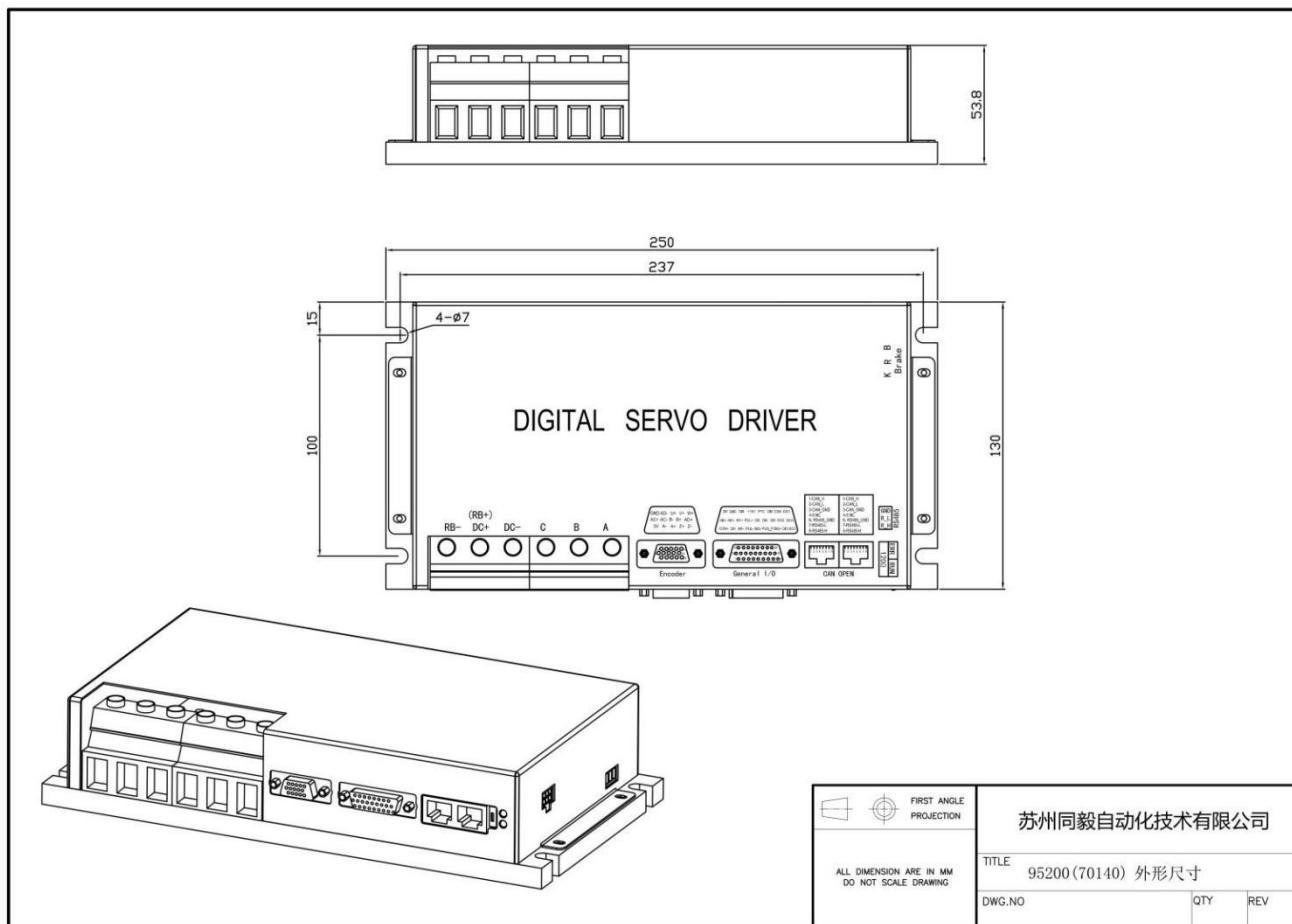
6.3. SIZE: 4080(3570)



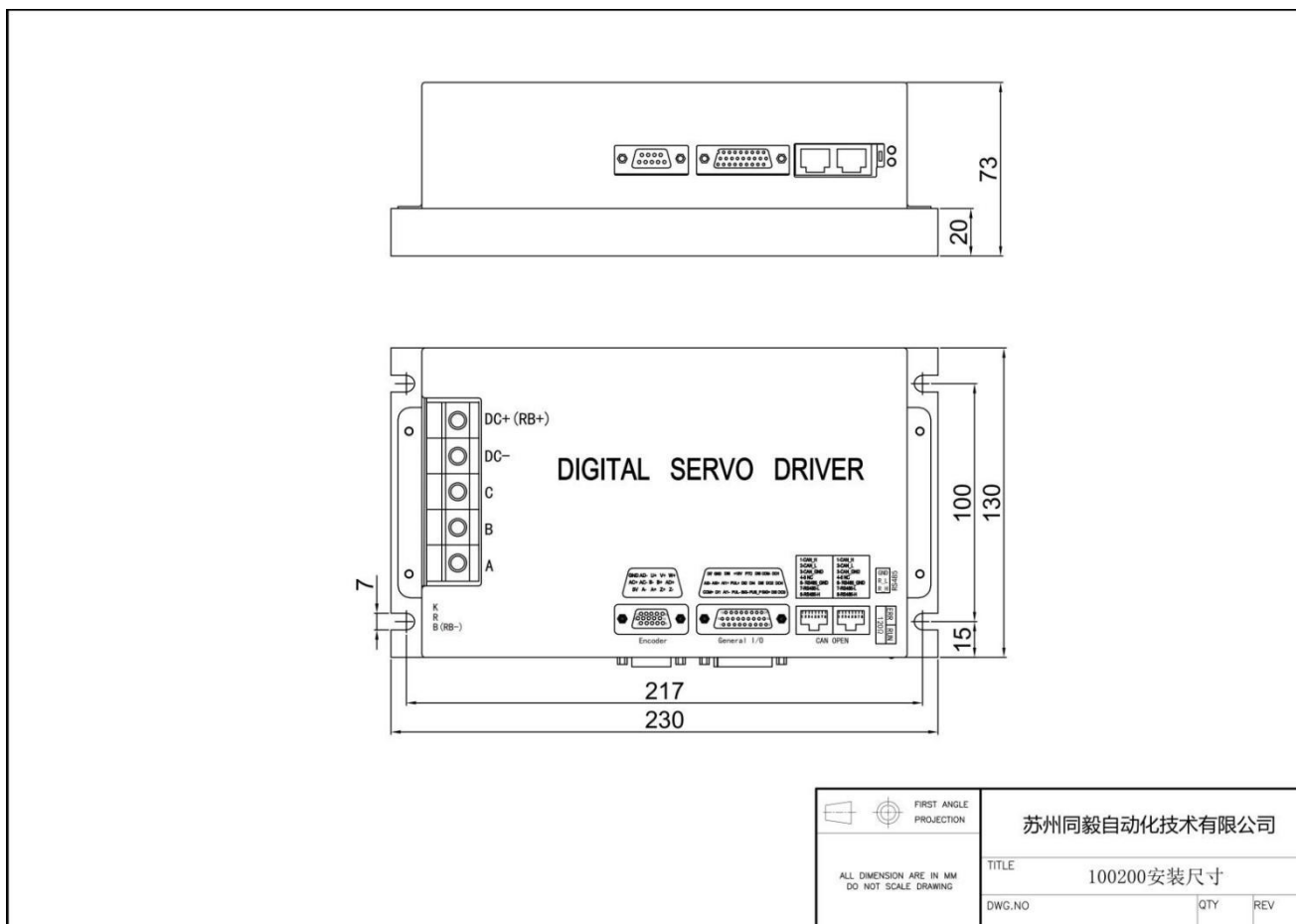
6.4. SIZE: 80160(50100)



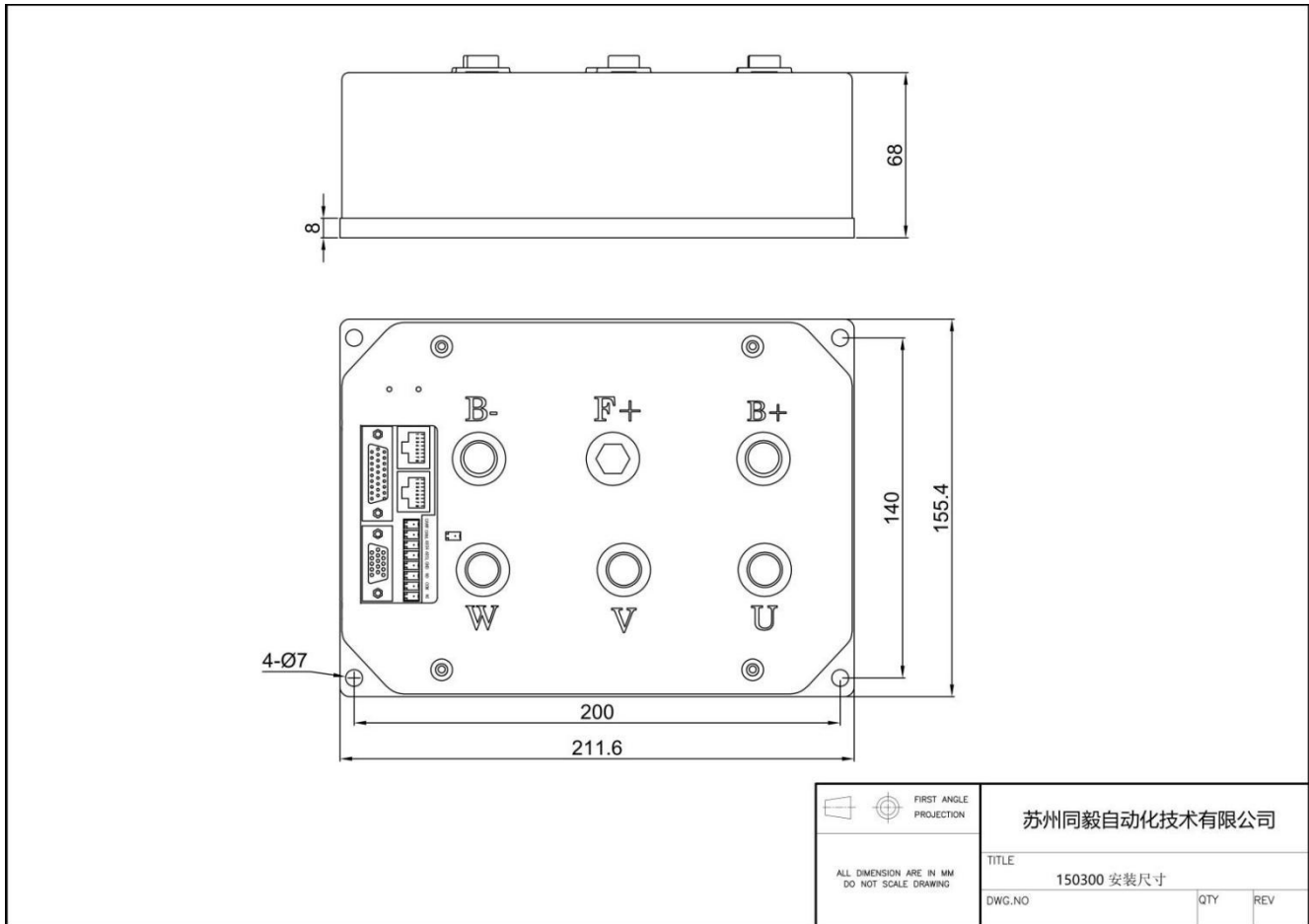
6.5. SIZE: 95200(70140)



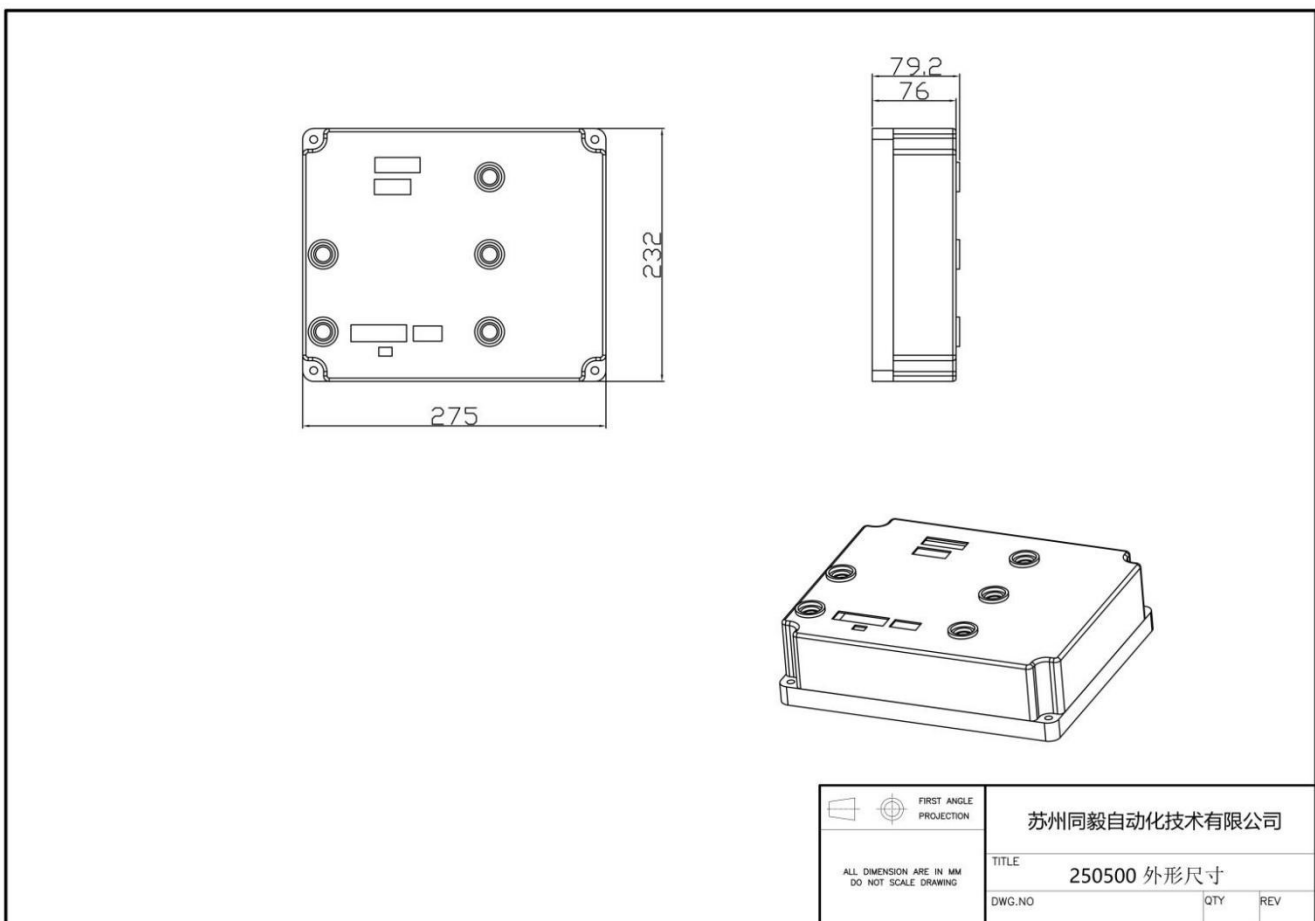
6.6. SIZE: 100200



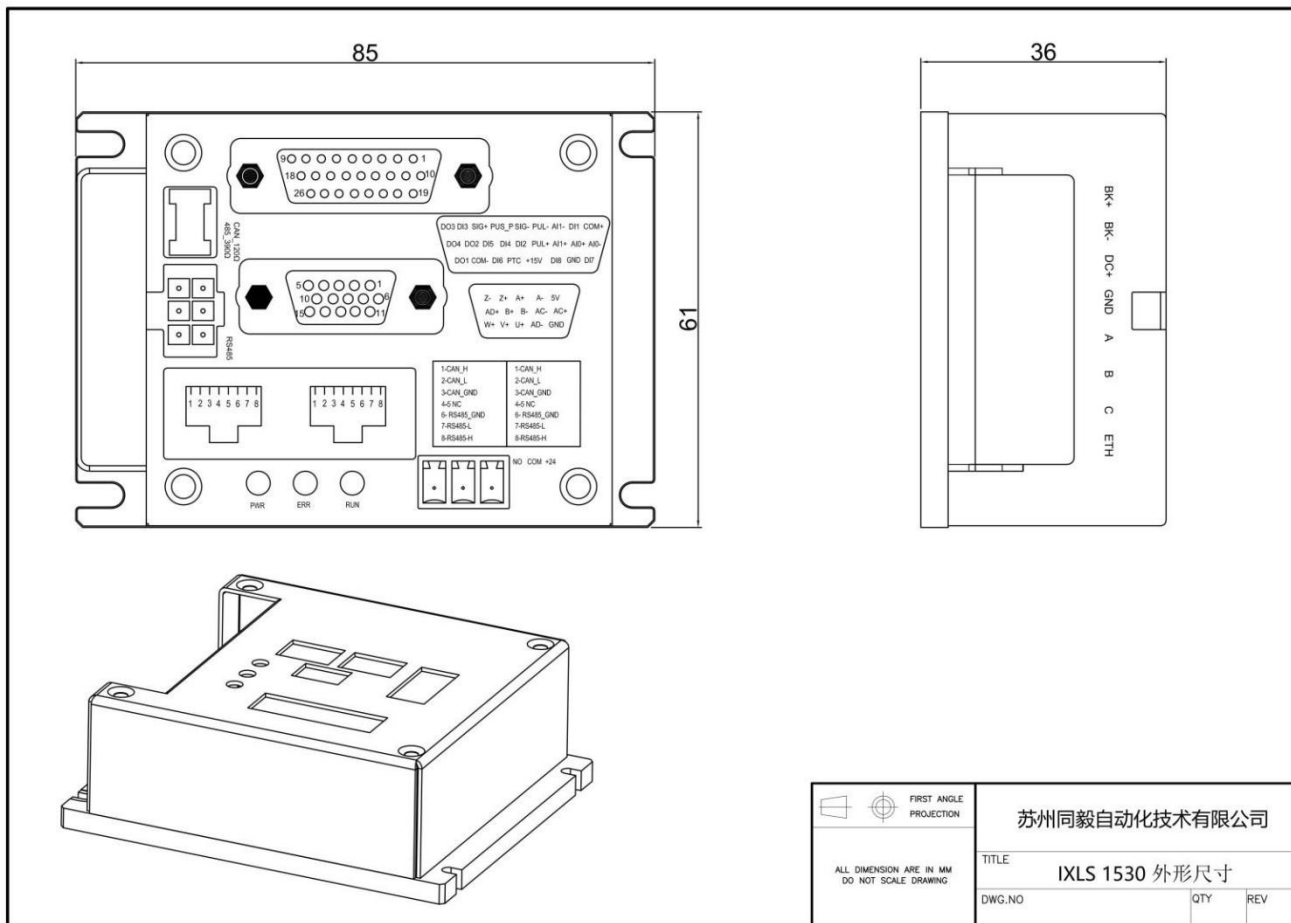
6.7. SIZE: 150300



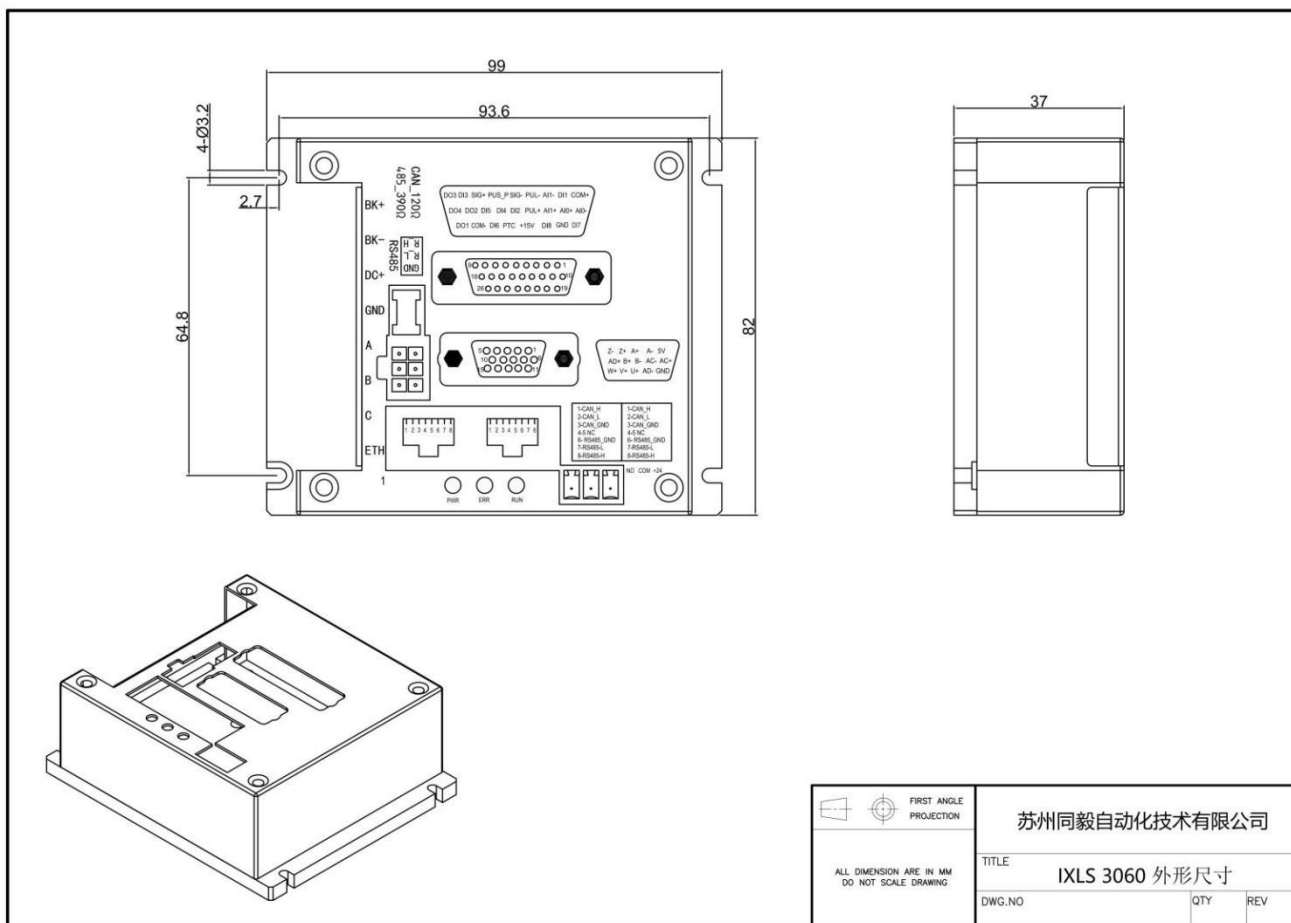
6.8. SIZE: 250500



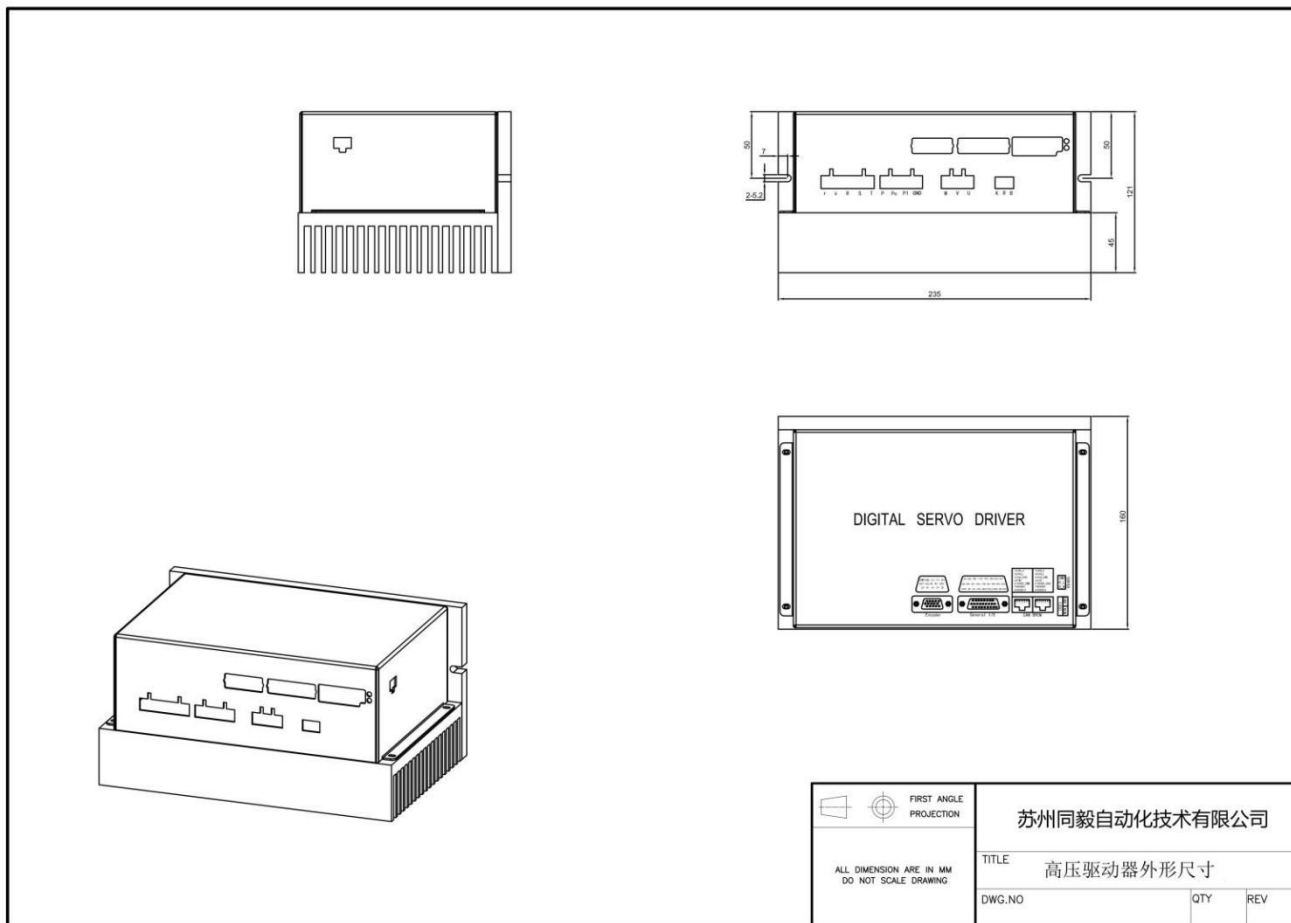
6.9. SIZE: IxLs1530



6.10. SIZE: IxLs3060



6.11. SIZE: IxH0612



6.12. SIZE: IxH1530

