

# Product Specifications

## 1. Product Overview

- 1.1 Product Name: JGDSD Servo Drive
- 1.2 Product Model: JGDSD-30D48-N124-C30-RU
- 1.3 Product Description:

The JGDSD series servo drives are designed for low temperature, vibration and shock tolerance scenarios, featuring DSP chips and high-quality IGBT power modules. They offer high integration, reliability, and support for wide temperature and high-altitude operation.

- Rated power 3KW
- 3 times overload capacity
- Multiple control modes: position/speed/torque control
- Comprehensive protection mechanisms
- Operating temperature: -40°C to +85°C
- Supports RS232, RS485, CAN open communication

## 2. Technical Parameters

### 2.1 Parameter Table

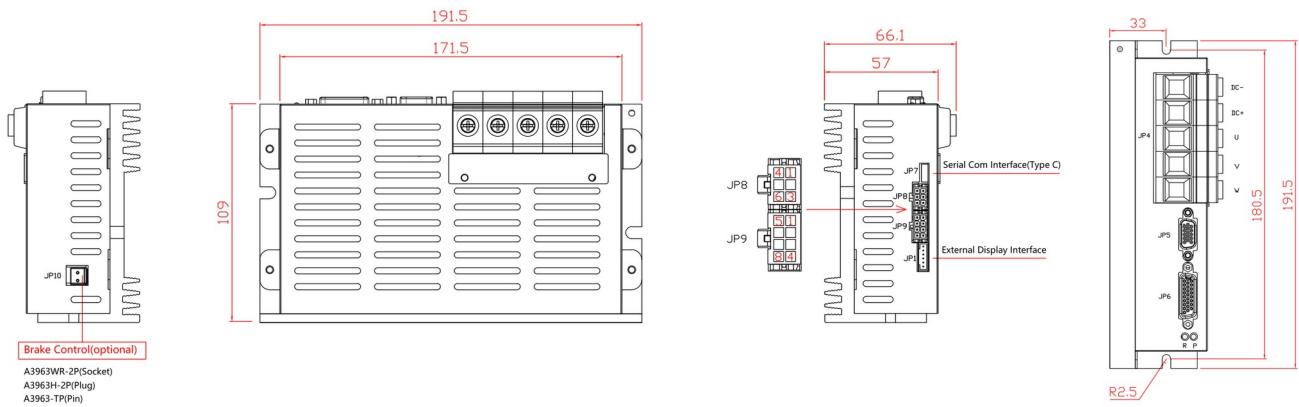
Items		Specification	
Basic Specification	Control	Three-phase full wave rectifier IGBT SVPWM mode	
	Operation conditions	Operation Temperature	-40°C~+85°C
		Storage Temperature	-50°C~+85°C
		Humidity	<85% [No frost]
		Vibration resistance	≤2.5G
	Structure	Wall mounted box type	
Cooling Type	Natural cooling /Fan cooling		
Parameters	Input Voltage	DC 48v	
	Rated Power	3KW	
	Rated Current	80A	
	Peak Current	240A	
	Supported Encoder	Resolver, Multi-Turn Absolute (BISS, Tamagawa), Incremental	
	Monitoring Output	14 Real-time Data Monitoring Items (Speed/Current/Position Deviation, etc.)	
Functions	Protection Functions	Overcurrent, Overload, Overheating, Overspeed, Overvoltage, Undervoltage, Control Power Abnormal:	
	Communication	RS232/RS485/CAN/CANopen	
	Regeneration	Built-in Regeneration Resistor	

### 2.2 Interface Information Table

Type	Interface ID	Connector	Cores Qty.	Interface Definition	Remarks
Power Supply	JP4	GS032-15_5	5	Motor Power out/DC power in	U_out/V_out/W_out, DC+_in/DC-_in
Encoder Interface	JP5	DB15	15	Feedback Encoder interface	
Input & Output	JP6	DB26	26	IO Interface	
Communication	JP8	3046-2*3	6	CAN+RS485	485A/485B/CANH/CANL R/CANL/GND
Communication	JP9	3046-2*4	8	CAN+RS232+RS485	485A/485B/CANH/CANL/232RXD/232TXD/GND/NC
Ext Display	JP1		6	External Panel	
Debugging	JP7		/	Type-c serial	

### 3. Overall Dimensions

#### 3.1 Dimension Drawing



#### 3.2 Appearance Photos



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