nouncement of System Maintenance] Please be informed that Automation Controls Website will be not available on Sunday, November 7, 2021, from 2:00 to 7:00 (GMT).



*Photo may vary from actual product.



Part Number	MBDLN25SE
Product	Servo Driver
Details	A6SE series Position control type (Incremental system only, Pulse train only) without the safety function
Product name	MINAS A6 Family Servo Driver
Features	50 W to 22 kW, Input power supply for Driver: Voltage DC 24 V/48 V · AC 100 V/200 V/400 V, 23 bit Absolute/Incremental · battery-less Absolute/Incremental encoder, Frequency response 3.2 kHz

Spec Detail

ltem	Specifications			
Part Number	MBDLN25SE			
Details	A6SE series Position control type (Incremental system only, Pulse train only) without the safety function			
Family Name	MINAS A6			
Series	A6SE series			
Туре	Position control type			
Frame	B-Frame			
Frequency response	3.2 kHz			
Control method	Position control			
About control method	A6SE series driver (Position control only) does not correspond to the absolute system of using the serial communication with the host device. It supports incremental system only.			
Safety Function	without			
Supply voltage	Single/3-phase 200 V			
I/F Classification of type	Pulse train only			
Dimensions (W) (Unit mm)	55			
Dimensions (H) (Unit: mm)	150			
Dimensions (D) (Unit: mm)	130			
Mass (kg)	1.0			
Environment	For more details, please refer to the instruction manual.			

Basic Specifications

Item Specifications				
Input power: Main circuit	Single/3-phase 200 to 240V +10% -15% 50/60 Hz			
Input power: Control circuit	Single phase 200 to 240V +10% -15% 50/60 Hz			
Encoder feedback	23-bit (8388608 resolution) absolute encoder, 7-wire serial			

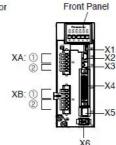
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 Specifications and design of the products are subject to change without notice for the product improvement.
 For more detail of this product, please contact us or consult to the dealer from whom you have purchased this product.

About Encoder feedback	* Since it can be used only as an incremental system, do not connect the battery for absolute encoder. Parameter Pr. 0.15 must be set to "1" (factory settings).			
Parallel I/O connector: Control signal Input	General purpose 10 inputs The function of general-purpose input is selected by parameters.			
Parallel I/O connector: Control signal Output	General purpose 6 output The function of general-purpose output is selected by parameters.			
Parallel I/O connector: Analog signal Output	2 outputs (Analog monitor: 2 output)			
Parallel I/O connector: Pulse signal Input	2 inputs (Photo-coupler input, Line receiver input)			
Parallel I/O connector: Pulse signal Output	4 outputs (Line driver: 3 output, open collector: 1 output)			
Communication function	USB			
Communication function: USB	USB interface to connect to computers for parameter setting or status monitoring.			
Regeneration	No built-in regenerative resistor (external resistor only)			
Control mode	Switching among the following 3 mode is enabled, (1) Position control, (2) Internal velocity command, (3) Position/Internal velocity command			

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Connector specification

- XA: 1) Main power input terminals
 - ② Control power input terminals
- XB: 1) Terminals for external regenerative resistor
 - ② Terminals for motor connection
- X1: USB connector
- X2: RS232/485 communication connector
- X3: Safety function connector
- X4: Interface connector
- X5: For external scale connection
- X6: For encoder connection



Connector of driver side		Multifunction type	RS485 communication type	Basic type	
Connector XA S0	5B-F32SK-GGXR	J.S.T. Mfg. Co., Ltd.	•	•	•
Connector XB S0	6B-F32SK-GGXR	J.S.T. Mfg. Co., Ltd.	•	•	•
Connector X1 UB	B-M5BR-DMP14-4S (or equivalent)	J.S.T. Mfg. Co., Ltd.	•	•	•
Connector X2 1-2	2040537-1 (or equivalent)	Tyco Electronics Japan G.K.	•	•	——————————————————————————————————————
Connector X3 204	40537-1 (or equivalent)	Tyco Electronics Japan G.K.	•	_	-
Connector X4 102	250-52A2PE (or equivalent)	Sumitomo 3M	•	•	•
Connector X5 ML	UF-RS10DK-GKXR (or equivalent)	J.S.T. Mfg. Co., Ltd.	•	_	_
Connector X6 3E	106-2230 KV (or equivalent)	Sumitomo 3M	•	•	•

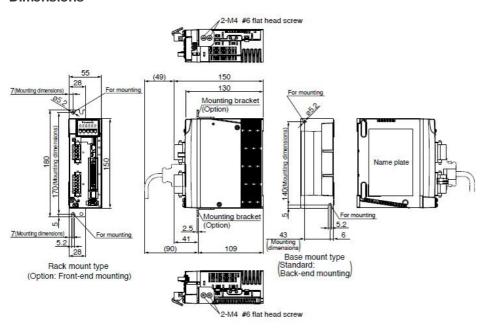
Attached to the driver>

Connector of power and motor side		Multifunction type	RS485 communication type	Basic type	
Connector XA	05JFAT-SAXGF	J.S.T. Mfg. Co., Ltd.	•	•	•
Connector XB	06JFAT-SAXGF	J.S.T. Mfg. Co., Ltd.	•		•

 $^{^{\}star}$ The dimension is for the A6SF Series, but outer dimension is the same as the A6SE and A6SG Series. Please refer to the catalog for detail dimension.

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Dimensions



^{*} The dimension is for the A6SF Series, but outer dimension is the same as the A6SE and A6SG Series. Please refer to the catalog for detail dimension.

Before purchasing our products

Creation Date : November 02, 2021

Before Purchasing and Using the Products (Motors for FA & Industrial Application)

Specifications and design of the products displayed on this website are subject to change without notice for the product improvement. (including specification change, manufacturing location change, End Of Sales, End Of Life). Therefore, be sure to request and confirm in advance the most current specifications, which explain the specifications in detail, before the final stage of your design, purchasing or use for any application.

Safety Precautions

- Important Notes on exporting this product or equipment containing this product;
- If the end-user or application of this product is related to military affairs or weapons, its export may be controlled by "Foreign Exchange and Foreign Trade Control Law" of Japan where export license will be required before product can be exported from Japan.
- This product is designed and manufactured for use in General Purpose Industrial Equipment and it is not intended to be used in equipment or system that may cause personal injury or death
- · All servicing such as installation, wiring, operation, maintenance and etc., should be performed by qualified personnel only.
- Tighten mounting screws with an adequate torque by taking into consideration strength of the screws and the characteristics of material to which the product will be mounted. Over tightening can damage the screw and/or material; under tightening can result in loosening.

*Example: apply 2.7 N·m - 3.3 N·m torque when tightening steel screw (M5) to steel surface.

- · Install safety equipment to prevent serious accidents or loss that is expected in case of failure of this product.
- · Consult us before using this product under such special conditions and environments as nuclear energy control, aerospace, transportation, medical equipment, various safety equipments or equipments which require a lesser air contamination.
- We have been making the best effort to ensure the highest quality of our products, however, some applications with exceptionally large external noise disturbance and static electricity, or failure in input power, wiring and components may result in unexpected action. It is highly recommended that you make a fail-safe design and secure the safety in the operative range.
- If the motor shaft is not electrically grounded, it may cause an electrolytic corrosion to the bearing, depending on the condition of the machine and its mounting environment, and may result in the bearing noise. Checking and verification by customer is required
- Failure of this product depending on its content may generate smoke of about one cigarette. Take this into consideration when the application of the machine is clean
- Please be careful when using the product in an environment with high concentrations of sulfur or sulfuric gases, as sulfuration can lead to disconnection from the chip resistor or a poor contact connection
- Do not input a supply voltage which significantly exceeds the rated range to the power supply of this product. Failure to heed this caution may lead to damage of the internal parts, causing smoke and/or fire and other troubles
- The user is responsible for matching between machine and components in terms of configuration, dimensions, life expectancy, characteristics, when installing the machine or changing specification of the machine. The user is also responsible for complying with applicable laws and regulations.
- · Manufacturer's warranty will be invalid if the product has been used outside its stated specifications.
- · Component parts are subject to minor change to improve performance
- Read and observe the instruction manual to ensure correct use of the product.

Warranty period

The warranty period is one year from the date of purchase or 18 months from the month of manufacture in our plant.

Warranty information

- ·Should any defect develop during warranty period under standard service conditions as described in the manual, the company agrees to make repairs free of charge. Even during warranty period, the company makes fee-based repair on product containing:
- [1] Failure or damage due to misuse, improper repair or alteration.
- [2] Failure or damage due to falling, or damage during transportation, after the original delivery
- [3] Defects resulting from neglect of the specification in use of the product
- [4] Failure or damage due to unregulated voltage and fire, and act of natural disasters such as earthquake, lightning, wind, flood and salt pollution.
- [5] Defects resulting from invasion of foreign materials such as water, oil and metal pieces. Parts exceeding their standard lifetime specified in this document are
- •The company shall not be liable for any indirect, incidental or consequential damage or loss of any nature that may arise in connection with the product

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