



Part Number	MBMU9A1AS
Product	Brushless Motors
Product name	MINAS-BL GV Series
Features	Speed control type, 50 W · 90 W · 130 W, Input power supply for Amplifier: Voltage AC 100 V/200 V, Rated speed 3000 r/min

*Photo may vary from actual product.



Spec Detail

Item	Specifications
Part Number	MBMU9A1AS
Series	MBMU
Rated output	90 W
Voltage specifications	100 V
Flange sq. dimension	90 mm sq.
Shaft	Round shaft
Oil seal	without
Rated rotational speed (r/min)	3000
–About rated rotational speed	Motor shaft speed: to be multiplied by the reduction ratio when the gear head is used.
Speed control range (r/min)	30 to 4000 * Adjustment of the parameters is necessary depending on the workload conditions.
Rated torque (N · m)	0.29
Starting torque (Representative value) (N · m)	0.43
Moment of inertia of rotor (x10 ⁻⁴ kg · m ²)	0.27
Motor insulation class	130(B) (UL certified 105 (A))
Protection class	IP65
–About Enclosure	Excluding the shaft pass-through section and cable end connector. These motors conform to the test conditions specified in EN standards (EN60529, EN60034-5). Do not use these motors in application where water proof performance is required such as continuous wash-down operation.
Mass (kg)	1.0

Remarks

Item	Specifications
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Before purchasing our products

- This datasheet is downloaded from Panasonic Automation Controls Website.
- 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.

Applicable Amplifier	Please refer to catalog.
Applicable Gear Head	Please refer to the page of the brushless motor catalog GV Series. For the reduction ratio, please check the gear characteristics list.
CAD	2D/3D data can be downloaded by selecting the CAD data file format from the external site below. Open CADENAS WEB2CAD Inc.'s Web site. 2D data (DXF) can be batch downloaded per series from the page below.(Provided as compressed file.) Open CAD (2D data) download page. * CAD data is provided in a drawing that combines motor and gearhead.

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Applicable Driver

Part Number	Control method	Supply voltage	Communication function	Regenerating brake	Power cable included
MBEG9A1BCV	Speed control	Single phase AC100 V to 120 V	RS485	Externally connected	without
MBEG9A1BCVC	Speed control	Single phase AC100 V to 120 V	RS485	Externally connected	with
MBEU9A1AAV	Speed control	Single phase AC100 V to 120 V	Without	No connection function	without

[MINAS-BL Series Table of Part Numbers and Options \(PDF\)](#)

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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 room related.
- 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 excluded.

• 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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