

97×33 mm

San Ace B97 9BMC type  c  US

## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)  
Expected life at 40°C is for reference only.
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 599.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... At 1 m away from the air inlet
- Storage temperature ..... -30 to +70°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black ☐Sensor Yellow ☐Control Brown
- Mass ..... 200 g

## Specifications

The models listed below **have pulse sensors with PWM control function.**

| Model no.    | Rated voltage [V] | Operating voltage range [V] | PWM duty cycle [%] | Rated current [A] | Rated input [W] | Rated speed [min <sup>-1</sup> ] | Max. airflow [m <sup>3</sup> /min] [CFM] | Max. static pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB (A)] | Operating temperature [°C] | Expected life [h]          |
|--------------|-------------------|-----------------------------|--------------------|-------------------|-----------------|----------------------------------|------------------------------------------|--------------------------------------------------|--------------|----------------------------|----------------------------|
| 9BMC12P2G001 | 12                | 10.8 to 13.2                | 100                | 6.2               | 74.4            | 8200                             | 1.85 65.3                                | 1950 7.83                                        | 69           | -20 to +70                 | 40000/60°C<br>(70000/40°C) |
|              |                   |                             | 20                 | 0.38              | 4.56            | 2800                             | 0.58 20.4                                | 121.0 0.48                                       | 44           |                            |                            |
| 9BMC24P2G001 | 24                | 21.6 to 26.4                | 100                | 3.1               | 74.4            | 8200                             | 1.85 65.3                                | 1950 7.83                                        | 69           |                            |                            |
|              |                   |                             | 20                 | 0.19              | 4.56            | 2800                             | 0.58 20.4                                | 121.0 0.48                                       | 44           |                            |                            |

\* PWM input frequency is 25 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

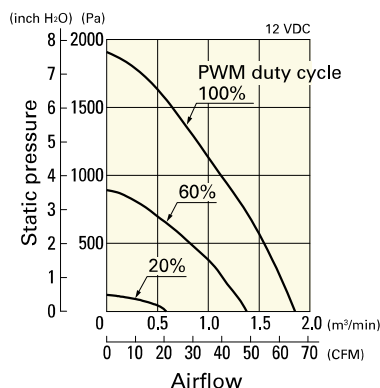
Note 1: Sensor and control options are available for selection. Refer to the table on p. 625.

Note 2: The  mark indicates Short LeadTime Service applicable models. See p. 654 for details.

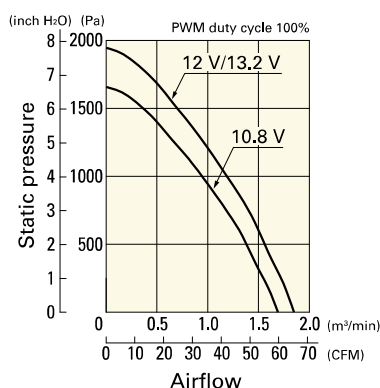
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9BMC12P2G001** With pulse sensor with PWM control function

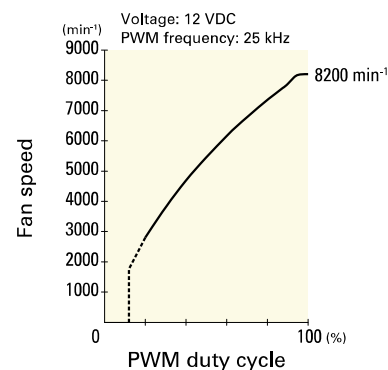
PWM duty cycle



Operating voltage range



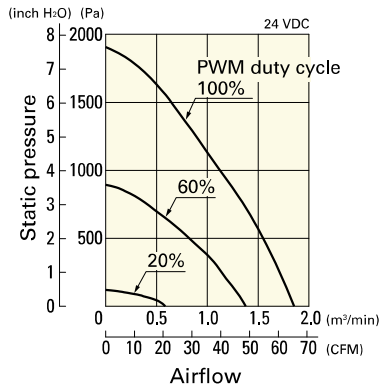
PWM duty - Speed characteristics example



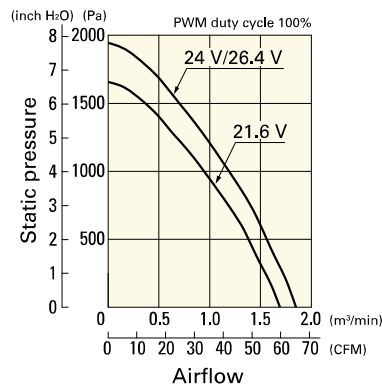
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9BMC24P2G001** With pulse sensor with PWM control function

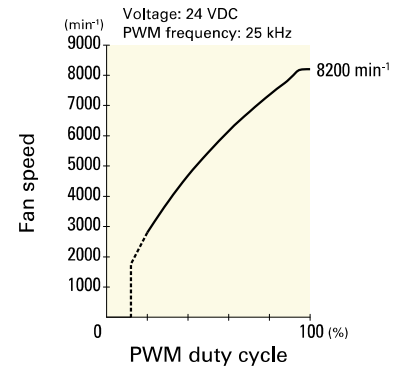
PWM duty cycle



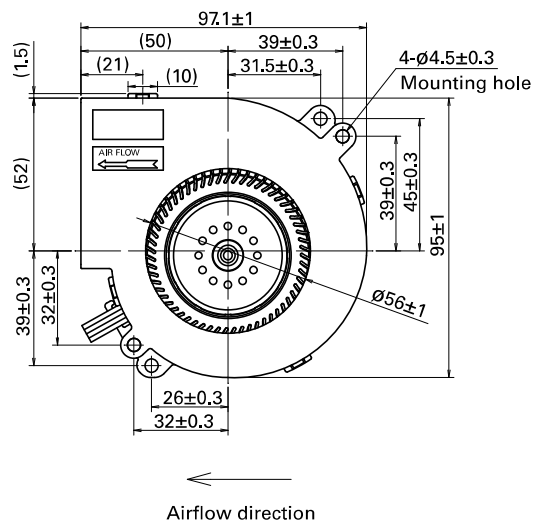
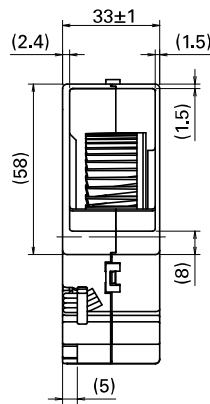
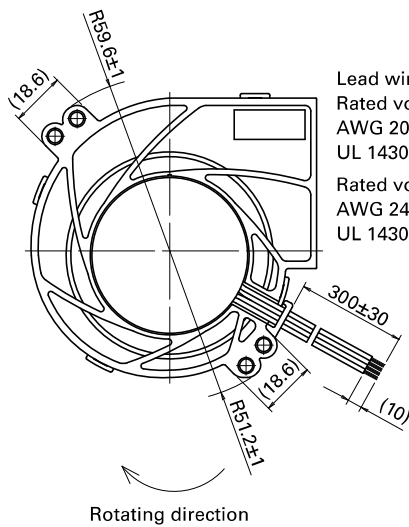
Operating voltage range



PWM duty - Speed characteristics example



## Dimensions (unit: mm)



DC  
Blower 97 mm