



97x33 mm

San Ace B97 9BMC type

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. 580.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) A-weighted 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 ⁻¹] | Max. airflow [m ³ /min] [CFM] | Max. static pressure [Pa] [inchH ₂ 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 (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 frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

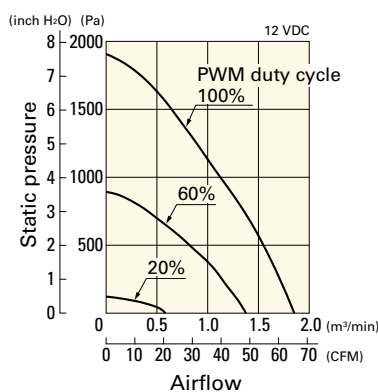
Note 1: Sensor and control options are available for selection. Refer to the table on p. 604.

Note 2: The mark indicates Short LeadTime Service applicable models. See p. 630 for details.

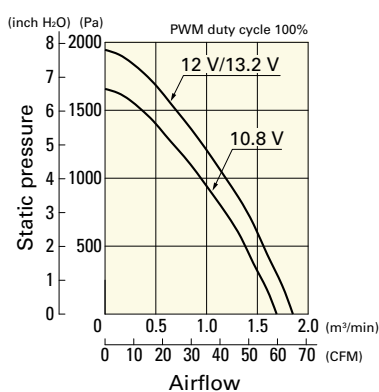
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9BMC12P2G001 With pulse sensor with PWM control function

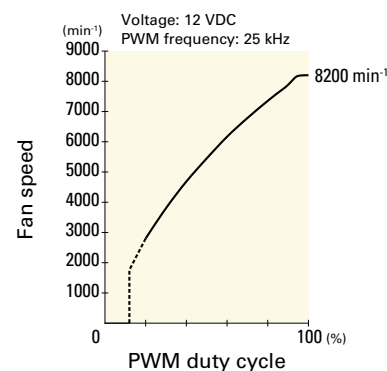
PWM duty cycle



Operating voltage range



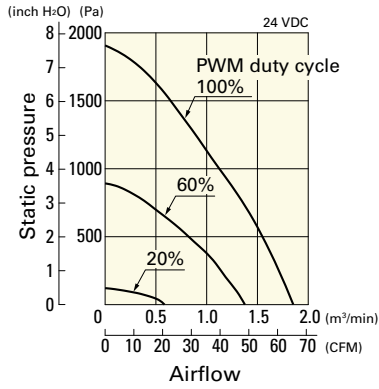
PWM duty - Speed characteristics example



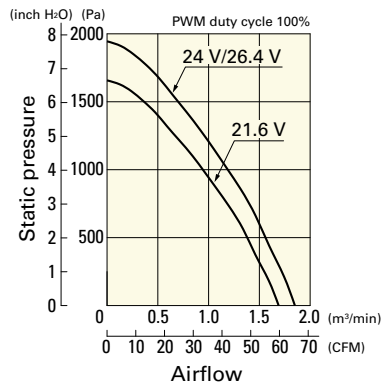
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9BMC24P2G001 With pulse sensor with PWM control function

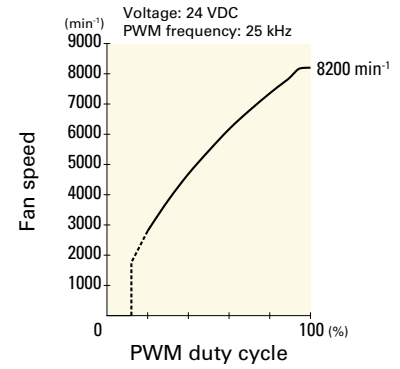
PWM duty cycle



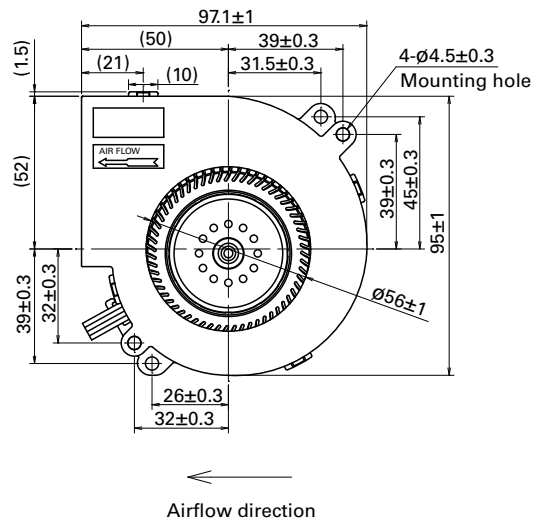
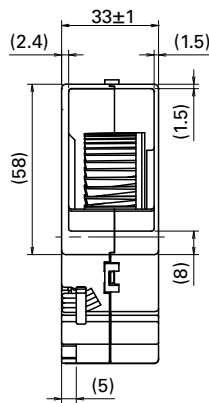
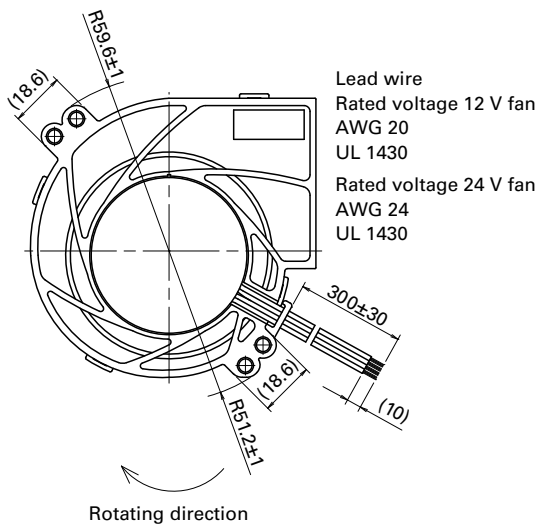
Operating voltage range



PWM duty - Speed characteristics example



Dimensions (unit: mm)



Blower 97 mm DC