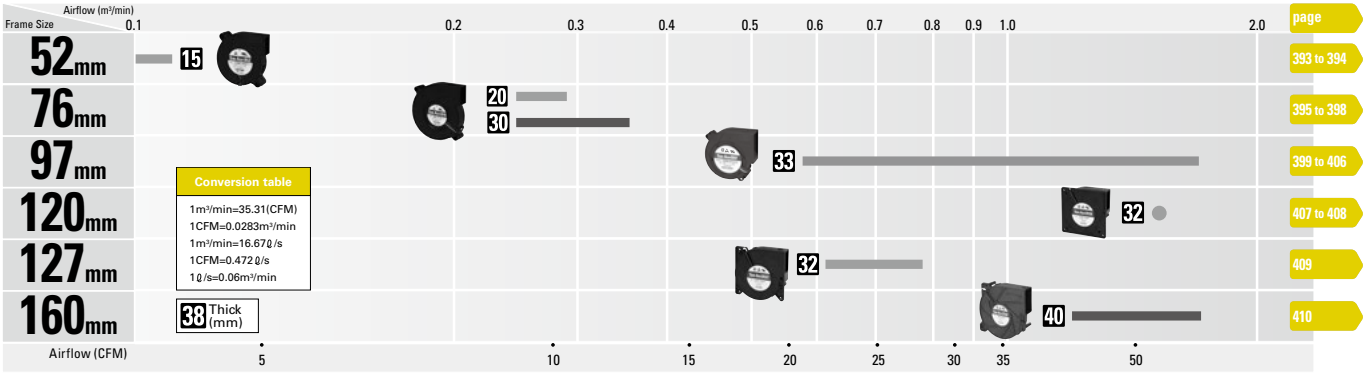
Blower

Cooling fan specialized for high static pressure

Domain Diagram



Model Numbering System

Not every combination of the following codes or characters is available. Contact us for an available combination.

109B	C	12	H	C	2	-1
Type name / frame material 109B ／ Plastics 9B ／ Plastics	**Frame size** C : 52mm D : 76mm M : 97mm F : 120mm J : 127mm G : 160mm	**Voltage** 12 : 12V 24 : 24V etc	**Speed code** F,G,H,K,M,S etc	**Sensor specifications** A : Without a sensor C : With a pulse sensor D : With a lock sensor	**Frame thickness** 1 : 40mm thick 2 : 30mm thick, 32mm thick, 33mm thick 7 : 15mm thick 6 : 20mm thick	**Individual customer's spec**

9B	MB	12	G	2	01	-1
Type name / frame material 9B ／ Plastics	**Frame size** MB : 97mm FB : 120mm	**Voltage** 12 : 12V 24 : 24V	**Speed code** G ／ S ／ H etc	**Frame thickness** 2 : 32mm thick ／ 33mm thick	**Sensor specifications** 01 : With a pulse sensor 02 : Without a sensor	**Individual customer's spec**

Fans with PWM control function

Example :

9B	MB	12	P	2	G	01
Type name / frame material 9B ／ Plastics	**Frame size** MB : 97mm FB : 120mm	**Voltage** 12 : 12V	**PWM control function**	**Frame thickness** 2 : 32mm thick ／ 33mm thick	**Speed code**	**Individual customer's spec** 2 or 3 digits

How to Read Specifications

DC Fan DC

Model No.	① Rated Voltage [V]	② Operating Voltage Range [V]	③ Rated Current [A]	④ Rated Input [W]	⑤ Rated Speed [min⁻¹]	⑥ Max. Airflow [m³/min]	⑥ Max. Airflow [CFM]	⑦ Max. Static Pressure [Pa]	⑦ Max. Static Pressure [inchH₂O]	⑧ SPL [dB(A)]	⑨ Operating Temperature [℃]	⑩ Expected Life [h]
9GA0412G7001	12	7 to 13.8	0.17	2.04	13,100	0.36	12.7	192	0.77	42	−20 to +70	40,000/60℃ (70,000/40℃)

①Rated Voltage ····· This is the necessary voltage to drive the fan. 12VDC, 24VDC and 48VDC are available.
②Operating Voltage Range ··· The voltage range over which fan operation is guaranteed
③Rated Current ····· The current value during the fan's rated operation without load
④Rated Input ····· The input value during the fan's rated operation without load
⑤Rated Speed ····· The rotating speed during the fan's rated operation without load
⑥Max. Airflow ····· The maximum air volume that the fan can output during rated operation (according to the company's dual-chamber device).
The volume of air generated by the fan in a given time period
⑦Max. Static Pressure ····· The maximum static pressure value that the fan can output during rated operation (according to the company's dual-chamber device). The static pressure is the fan's force to propel air by overcoming the resistance of the device that uses the fan when it propels air.
⑧SPL ····· "SPL" is Sound Pressure Level. The noise level during the fan's rated operation.
Please refer to the technical material section for the method used to measure the noise level.
⑨Operating Temperature ····· The temperature range over which fan operation is guaranteed (Non- condensing)
⑩Expected Life ····· The fan's expected operating life when the fan operates continuously at the rated voltage at a temperature of 60˚C and at relative humidity of 90%. Expected life at 40℃ ambient is just reference value.
Please refer to the technical material section for the expected operating life.

DC Fan Common Specifications

Material ····· Frame,Impeller:Plastics / Frame:Aluminum,Impeller:Plastics
* For details, refer to the appropriate page.

Expected Life ····· Varies for each model (L10:Survival rate:90% at 60℃ ,rated voltage, and continuously run in a free air state)
* Splash proof fan: Varies for each model (Indoor, L10:Survival rate:90% at 60℃ ,rated voltage, and continuously run in a free air state)

Motor Protection ····· Burnout protection at locked rotor condition and Reverse polarity protection

Dielectric Strength ····· AC50/60Hz 500VAC 1minute(between lead conductor and frame)

Insulation Resistance ····· 10M Ω or more at 500VDC megger (between lead conductor and frame)

Sound Pressure Level(SPL) ·· Expressed as the value at 1m from air inlet side

Lead Wire ····· For details, refer to the appropriate page.

Overheating protection function

Protection Functions:
If the fan blades are restricted, an overcurrent occurs and leads to a rise in the fan coil temperature. This can result in reduced performance, damage, or a fire. To prevent this from occurring, SANYO DENKI's fans incorporate an overheating protection function. Refer to the catalog for the types of protection functions.

Burnout protection function at locked rotor condition

● Current cutoff system
If the fan blades are restricted, the coil current is cut off at regular cycles to prevent overheating of the coil. When the hindrance is removed, the fan restarts automatically.

Reverse polarity protection function

No problem about fan even if positive & negative lead are connected in reverse.
However, when wiring fans with sensors or PWM speed control function, connecting positive and negative leads in reverse may damage the fans.

52mm San Ace B52

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0),
  Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃ , rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black (Sensor) yellow
- Storage Temperature ···−30℃ to +70℃ (Non-condensing)

52mm×15mm (Mass : 33g) 9BC type

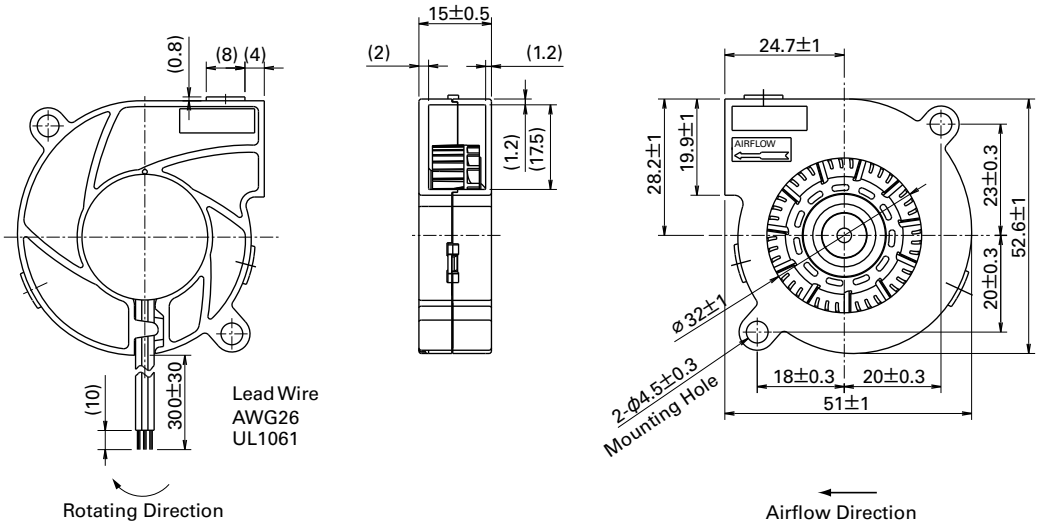
Specifications

The following nos. **have pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
109BC12GC7-1	12	6 to 13.8	0.12	1.44	6,200	0.125	4.4	215	0.86	43	−20 to +70	40,000/60℃ (70,000/40℃)
109BC12HC7-1			0.10	1.20	5,600	0.112	4.0	165	0.66	40		
109BC12FC7-1			0.08	0.96	5,100	0.101	3.6	130	0.52	38		
109BC12MC7-1			0.06	0.72	4,600	0.091	3.2	100	0.40	35		
109BC24GC7-1	24	12 to 27.6	0.07	1.68	6,200	0.125	4.4	215	0.86	43		
109BC24HC7-1			0.05	1.20	5,600	0.112	4.0	165	0.66	40		
109BC24FC7-1			0.04	0.96	5,100	0.101	3.6	130	0.52	38		

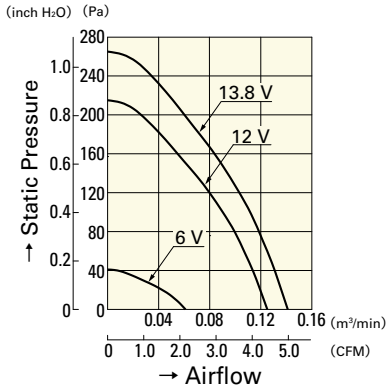
Other sensor specifications are available as options. Please refer to the index (p. 495).

Dimensions (unit: mm)



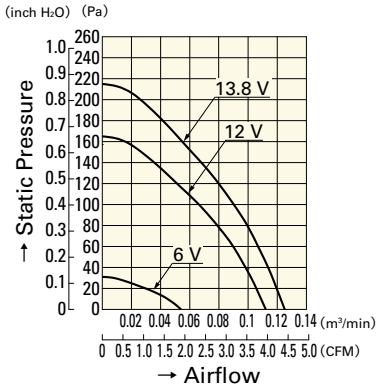
Airflow - Static Pressure Characteristics

G speed



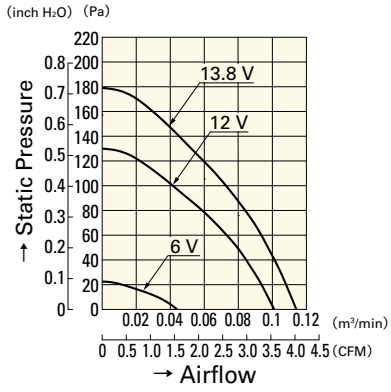
109BC12GC7-1

H speed



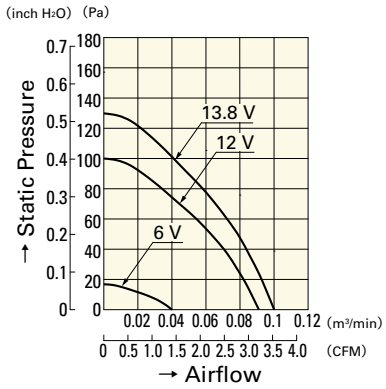
109BC12HC7-1

F speed



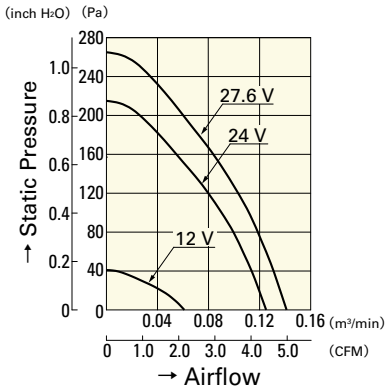
109BC12FC7-1

M speed



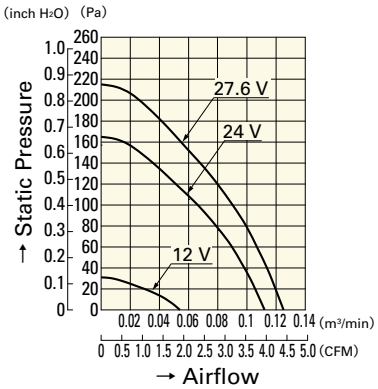
109BC12MC7-1

G speed



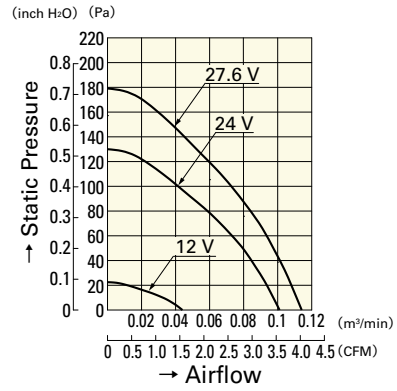
109BC24GC7-1

H speed



109BC24HC7-1

F speed



109BC24FC7-1

76mm San Ace B76

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0),
  Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃ , rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black (Sensor) yellow
- Storage Temperature ···−30℃ to +70℃ (Non-condensing)

76mm×20mm (Mass：58g) 9BD type

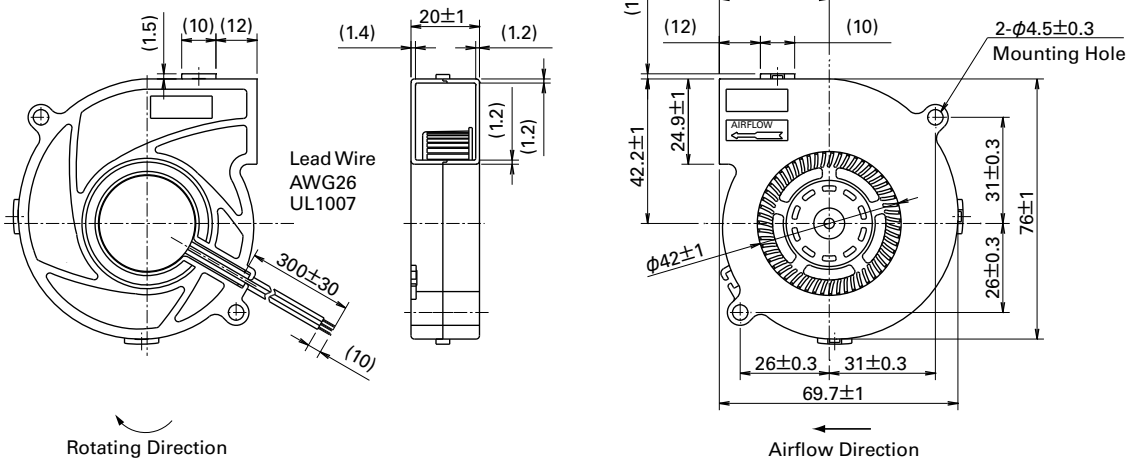
Specifications

The following nos. **have pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
9BD12SC6-1	12	5 to 13.8	0.28	3.36	4,500	0.29	10.2	300	1.20	43	−20 to +70	40,000/60℃ (70,000/40℃)
9BD12HC6-1		5.5 to 13.8	0.21	2.52	4,200	0.27	9.5	230	0.92	41		
9BD12FC6-1			0.18	2.16	3,900	0.25	8.8	200	0.80	39		
9BD24SC6-1	24	10 to 27.6	0.14	3.36	4,500	0.29	10.2	300	1.20	43		
9BD24HC6-1			0.12	2.88	4,200	0.27	9.5	230	0.92	41		
9BD24FC6-1			0.10	2.4	3,900	0.25	8.8	200	0.80	39		

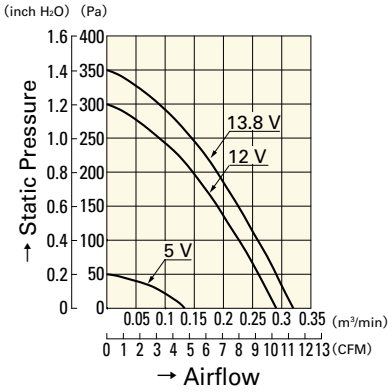
Other sensor specifications are available as options. Please refer to the index (p. 500).

Dimensions (unit: mm)



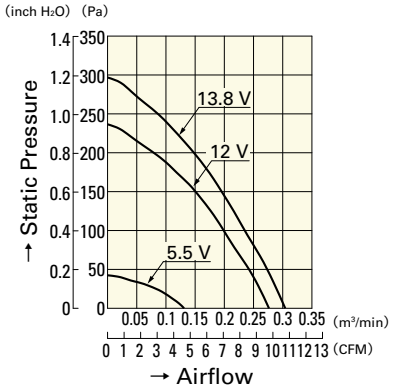
Airflow - Static Pressure Characteristics

S speed



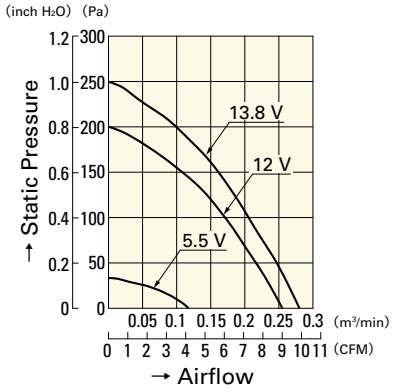
9BD12SC6-1

H speed



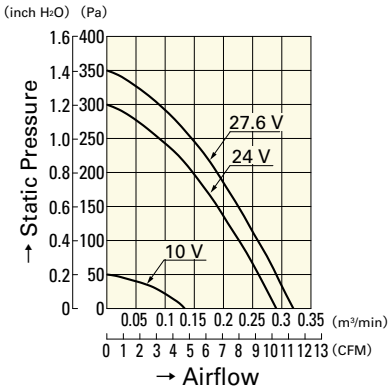
9BD12HC6-1

F speed



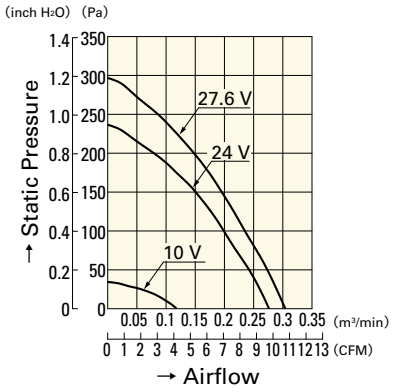
9BD12FC6-1

S speed



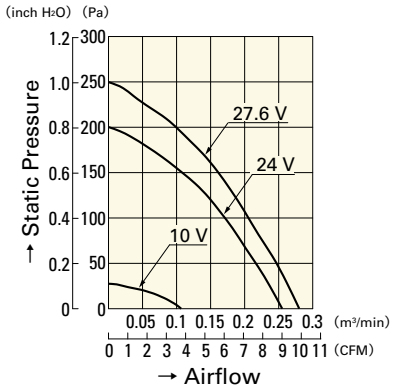
9BD24SC6-1

H speed



9BD24HC6-1

F speed



9BD24FC6-1

76mm San Ace B76

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0), Impeller: Plastics (Flammability: UL94V-1)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃, rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black or blue (Sensor) yellow
- Storage Temperature ···· −30℃ to +70℃ (Non-condensing)

76mm×30mm (Mass：100g) 9BD type

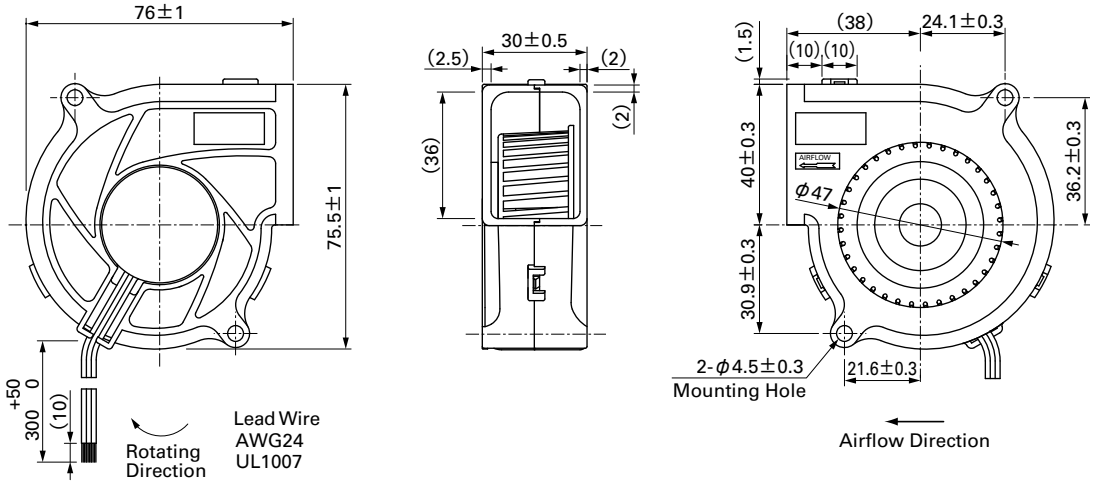
Specifications

The following nos. **have pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
109BD12HC2	12	10.2 to 13.8	0.37	4.44	3,000	0.36	12.7	151.9	0.610	41.5	−20 to +60	40,000/60℃
109BD12FC2			0.27	3.24	2,600	0.31	10.9	98	0.394	37	−20 to +70	
109BD12MC2			0.14	1.68	2,100	0.25	8.8	58.8	0.236	32.5		
109BD24HC2	24	20.4 to 27.6	0.17	4.08	3,000	0.36	12.7	151.9	0.610	41.5	−20 to +60	
109BD24FC2			0.14	3.36	2,600	0.31	10.9	98	0.394	37	−20 to +70	
109BD24MC2			0.10	2.40	2,100	0.25	8.8	58.8	0.236	32.5		

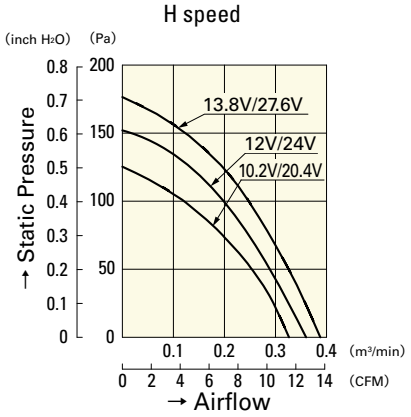
Other sensor specifications are available as options. Please refer to the index (p. 495).

Dimensions (unit: mm)



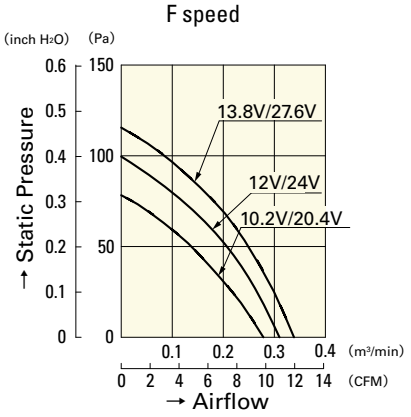
Airflow - Static Pressure Characteristics

H speed



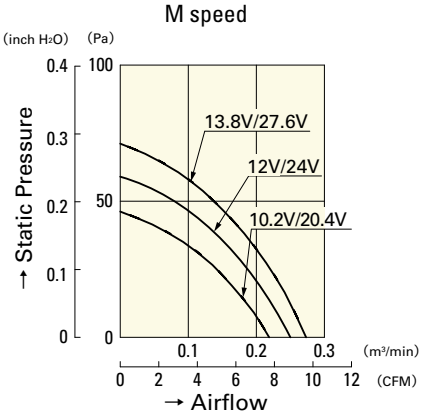
109BD12HC2
109BD24HC2

F speed



109BD12FC2
109BD24FC2

M speed



109BD12MC2
109BD24MC2

97mm San Ace B97

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0),
  Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃ , rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black (Sensor) yellow
- Storage Temperature ··· −30℃ to +70℃ (Non-condensing)

97mm×33mm (Mass : 175g) 9BM type

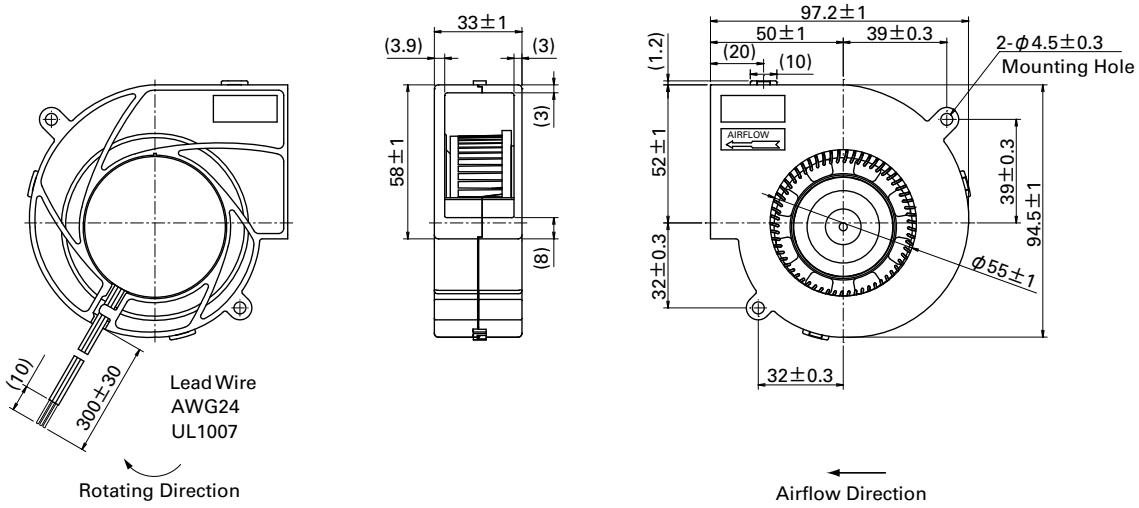
Specifications

The following nos. **have pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
109BM12GC2-1	12	7 to 13.8	0.60	7.20	3,800	0.82	28.9	281	1.129	51.5	−20 to +70	40,000/60℃ (70,000/40℃)
109BM12HC2-1			0.40	4.80	3,300	0.71	25.1	204	0.819	48.5		
109BM12MC2-1			0.26	3.12	2,700	0.58	20.5	119	0.478	43.5		
109BM24GC2-1	24	12 to 27.6	0.31	7.44	3,800	0.82	28.9	281	1.129	51.5		
109BM24HC2-1			0.26	6.24	3,300	0.71	25.1	204	0.819	48.5		
109BM24MC2-1			0.15	3.60	2,700	0.58	20.5	119	0.478	43.5		

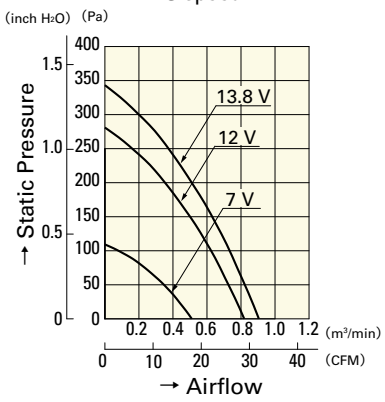
Other sensor specifications are available as options. Please refer to the index (p. 495).

Dimensions (unit: mm)



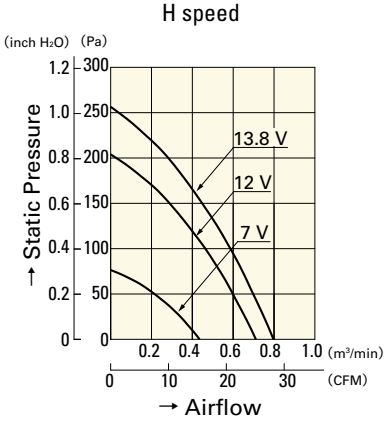
Airflow - Static Pressure Characteristics

G speed



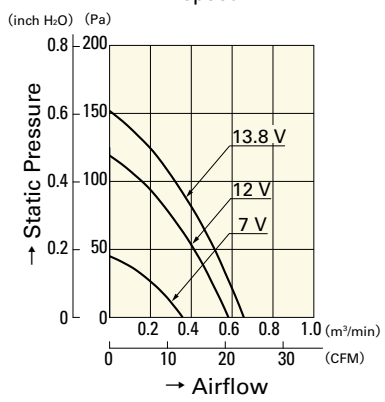
109BM12GC2-1

H speed



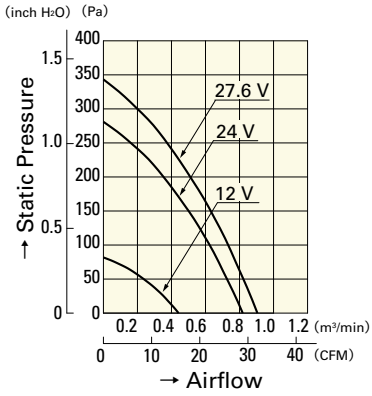
109BM12HC2-1

M speed



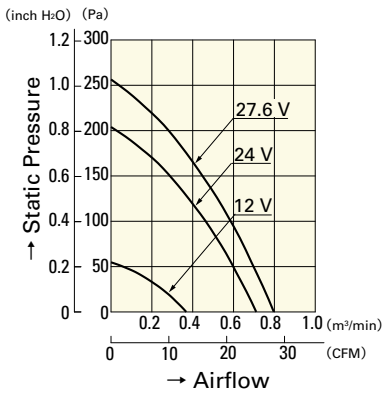
109BM12MC2-1

G speed



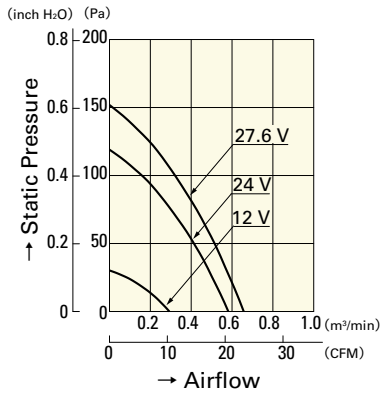
109BM24GC2-1

H speed



109BM24HC2-1

M speed



109BM24MC2-1

97mm San Ace B97

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0), Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃, rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black (Sensor) yellow (Control) brown (For models without PWM control function, there is no speed control wiring.)
- Storage Temperature ···−30℃ to +70℃ (Non-condensing)

97mm×33mm (Mass：190g) 9BMB type

Specifications

The following nos. **have PWM controls and pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM duty cycle※ [%]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
9BMB12P2K01	12	10.8 to 13.2	100	3.4	40.8	6,850	1.61	56.8	1,280	5.14	66	−20 to +70	40,000/60℃
9BMB12P2G01		10.2 to 13.8	100	1.8	21.6	5,750	1.34	47.3	760	3.050	61		
9BMB12P2S01			100	1.4	16.8	5,250	1.22	43.1	610	2.450	59		
9BMB12P2H01			100	1.1	13.2	4,850	1.11	39.2	490	1.968	57		
9BMB12P2F01			100	0.9	10.8	4,500	1.04	36.7	410	1.64	56		
9BMB24P2K01	24	21.6 to 26.4	100	1.62	38.88	6,850	1.61	56.8	1,280	5.14	66		
9BMB24P2G01			100	0.83	19.92	5,750	1.34	47.3	760	3.05	61		
9BMB24P2S01			100	0.7	16.8	5,250	1.22	43.1	610	2.450	59		
9BMB24P2H01			100	0.55	13.2	4,850	1.11	39.2	490	1.968	57		
9BMB24P2F01			100	0.45	10.8	4,500	1.04	36.7	410	1.640	56		

Note: Fan does not rotate when PWM duty cycle is 0%.

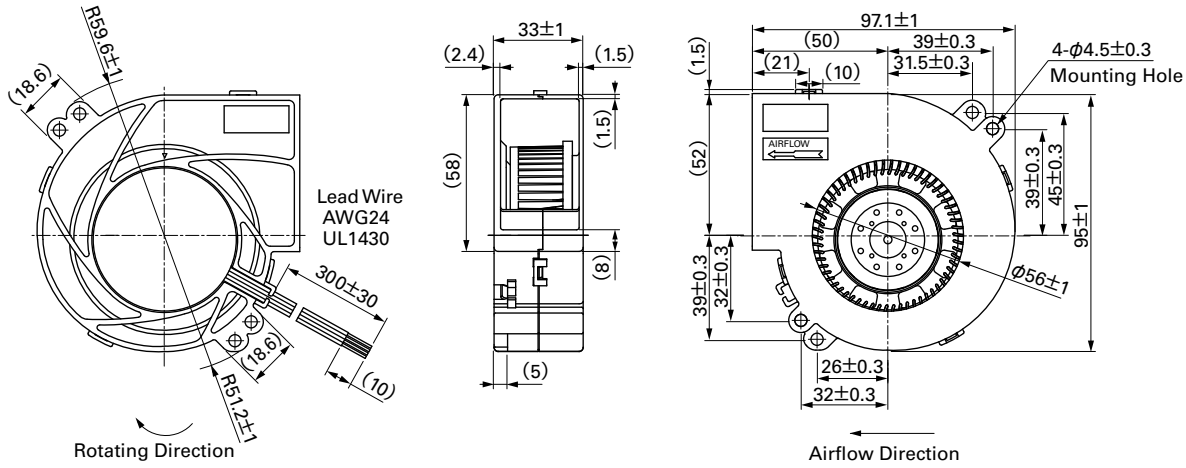
※PWM Frequency：25kHz

The following nos. **have pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
9BMB12K201	12	7 to 13.2	3.4	40.8	6,850	1.61	56.8	1,280	5.14	66	−20 to +70	40,000/60℃
9BMB12G201		7 to 13.8	1.80	21.6	5,750	1.34	47.3	760	3.052	61		
9BMB12S201			1.40	16.8	5,250	1.22	43.1	610	2.450	59		
9BMB12H201			1.10	13.2	4,850	1.11	39.2	490	1.968	57		
9BMB12F201			0.90	10.8	4,500	1.04	36.7	410	1.647	56		
9BMB24K201	24	21.6 to 26.4	1.62	38.88	6,850	1.61	56.8	1,280	5.14	66		
9BMB24G201		12 to 26.4	0.83	19.9	5,750	1.34	47.3	760	3.052	61		
9BMB24S201			0.70	16.8	5,250	1.22	43.1	610	2.450	59		
9BMB24H201			0.55	13.2	4,850	1.11	39.2	490	1.968	57		
9BMB24F201			0.45	10.8	4,500	1.04	36.7	410	1.647	56		

Other sensor specifications are available as options. Please refer to the index (p. 501).

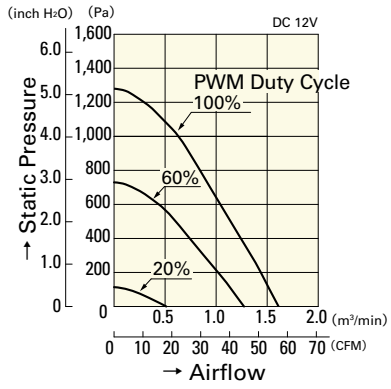
Dimensions (unit: mm) (With PWM control function・With pulse sensor)



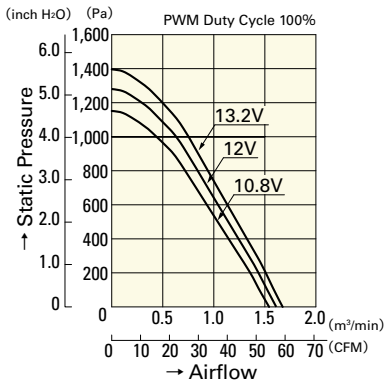
Airflow - Static Pressure Characteristics

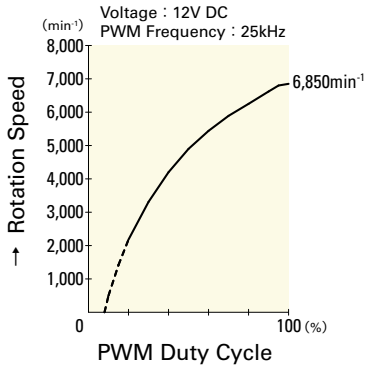
PWM Duty - Speed Characteristics Example

PWM Duty Cycle

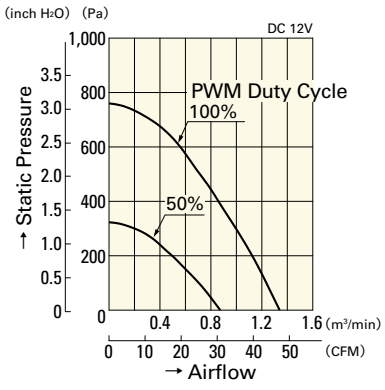


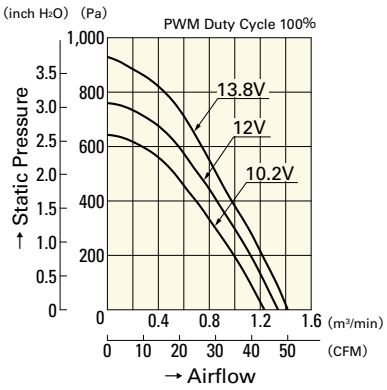
Operating Voltage Range

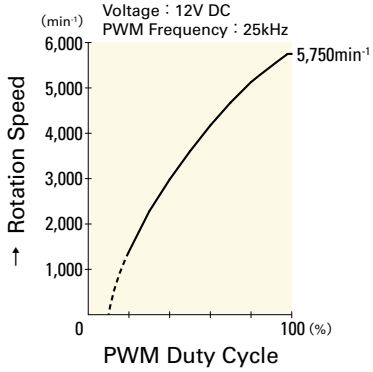




9BMB12P2K01







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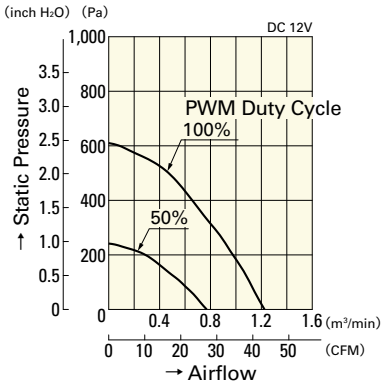

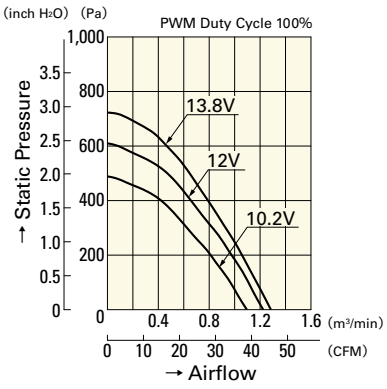

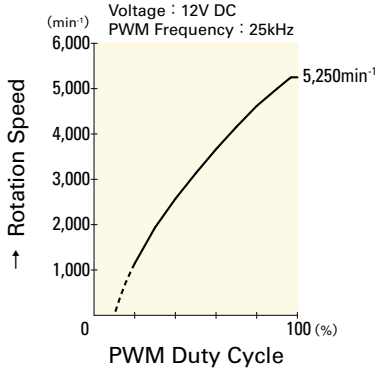

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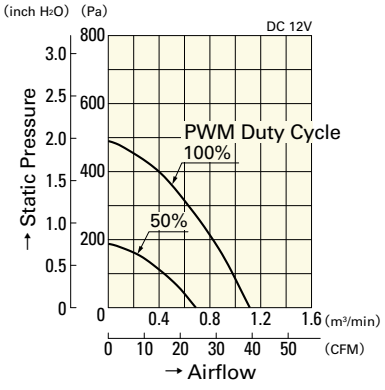
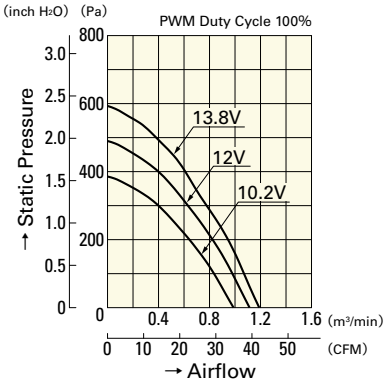
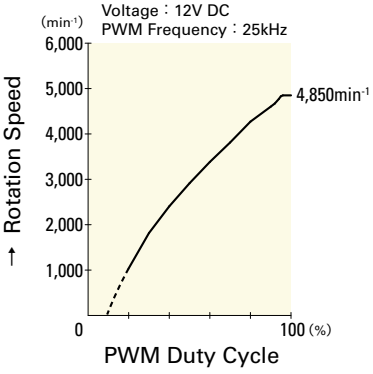






9BMB12P2H01

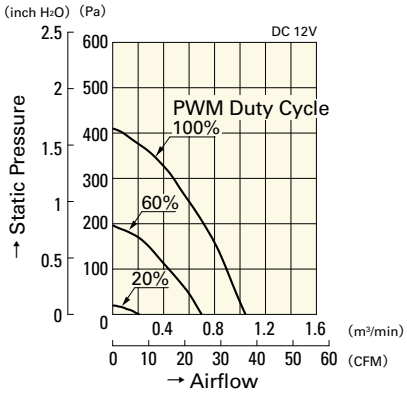
97mm

San Ace B97

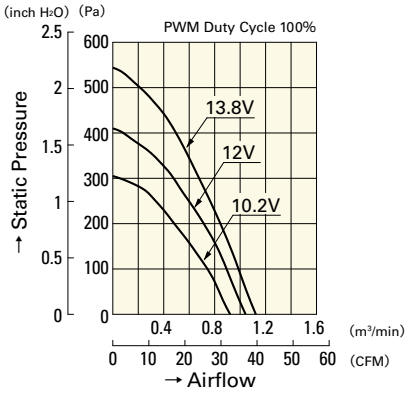
97mm×33mm (Mass : 190g)

Airflow - Static Pressure Characteristics

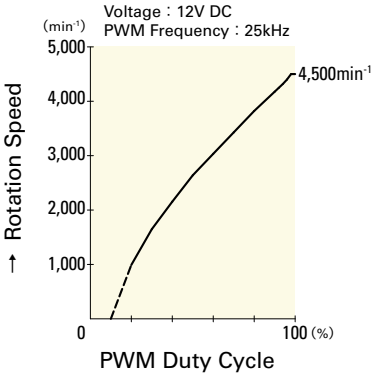
PWM Duty Cycle



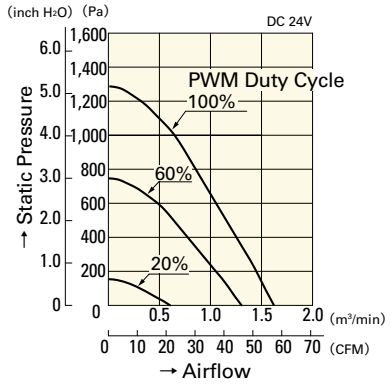
Operating Voltage Range

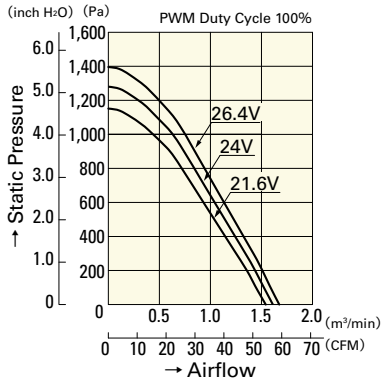


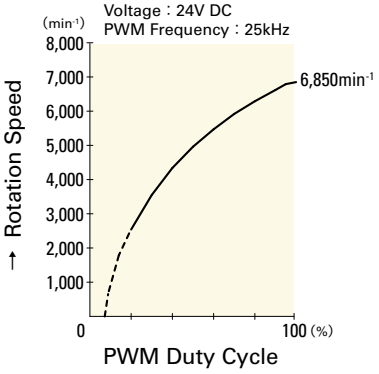
PWM Duty - Speed Characteristics Example



9BMB12P2F01







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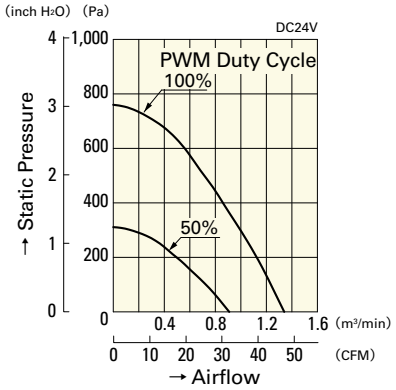
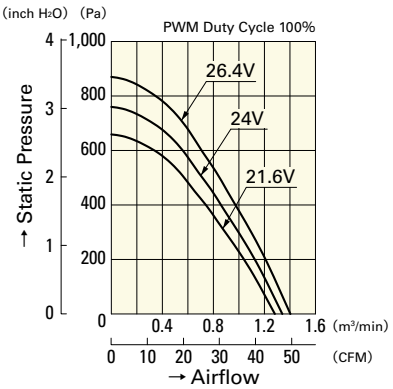
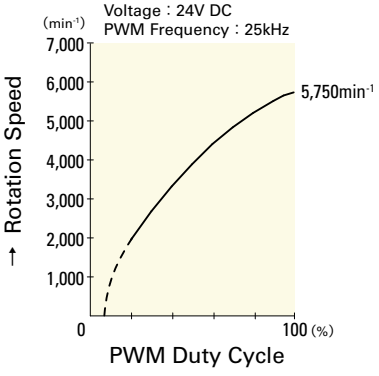


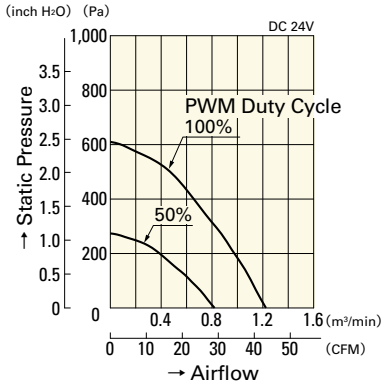




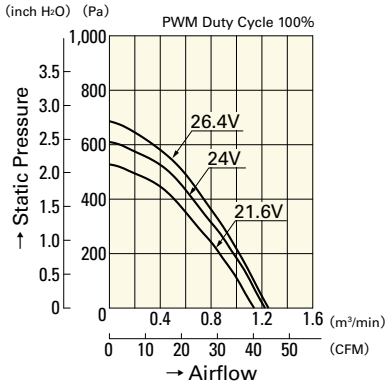
9BMB24P2G01

Airflow - Static Pressure Characteristics

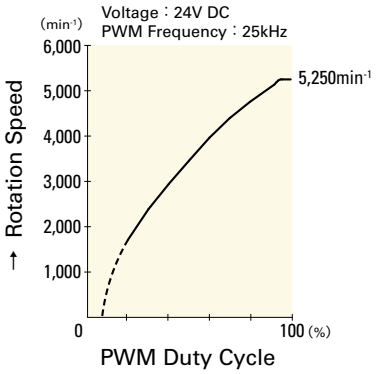
PWM Duty Cycle



Operating Voltage Range



PWM Duty - Speed Characteristics Example



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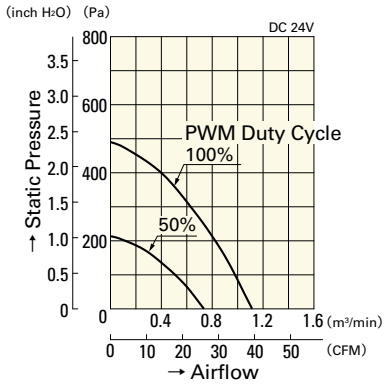

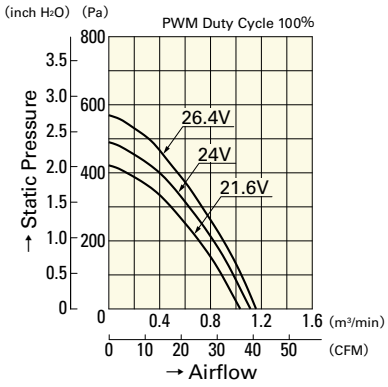

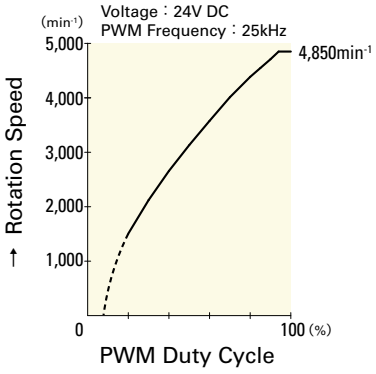

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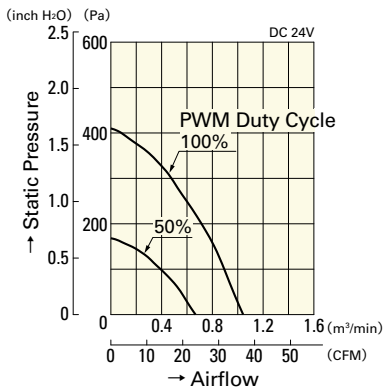
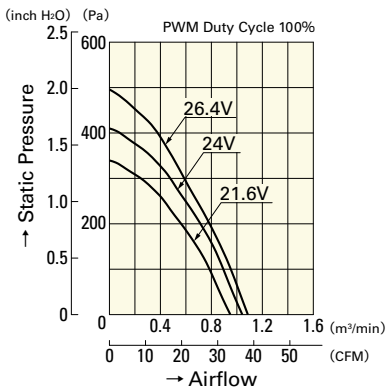
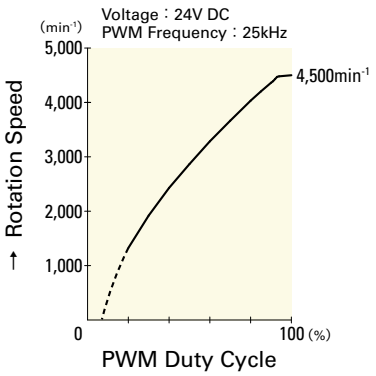






9BMB24P2F01

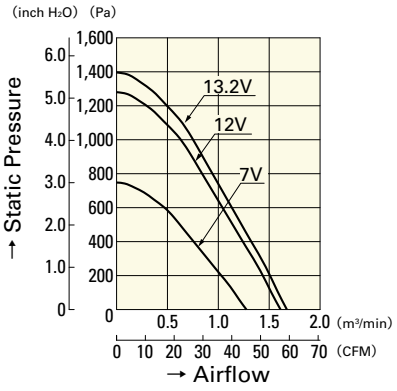
97mm

San Ace B97

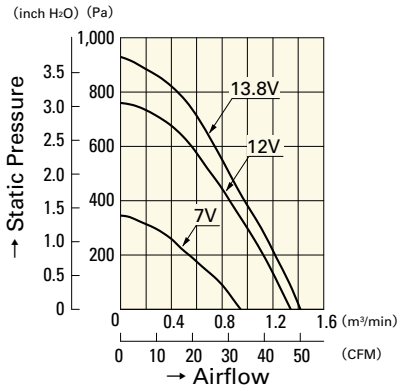
97mm×33mm (Mass : 190g)

Airflow - Static Pressure Characteristics

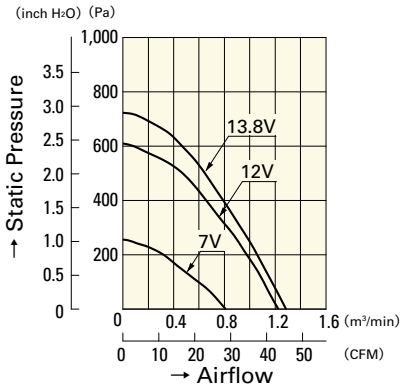
Operating Voltage Range



9BMB12K201



9BMB12G201



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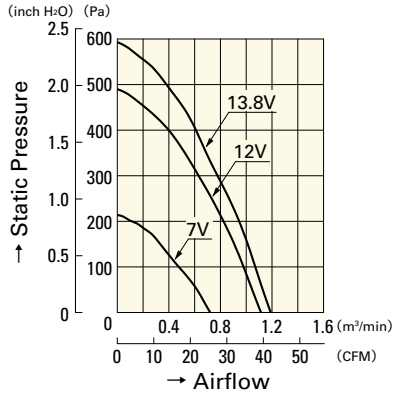

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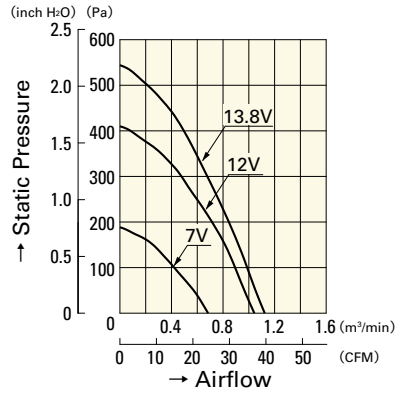

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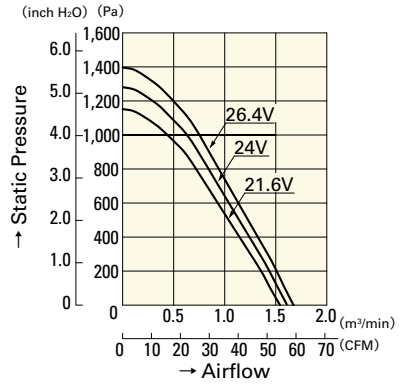

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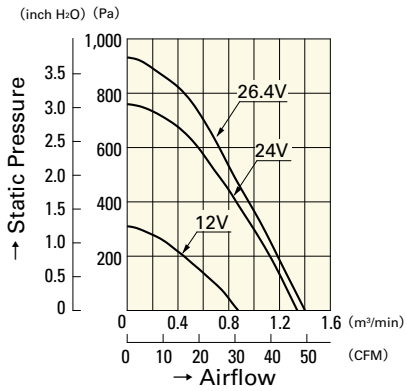

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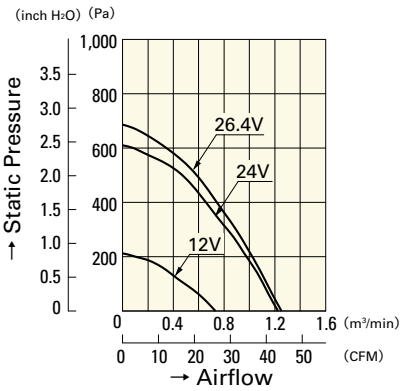

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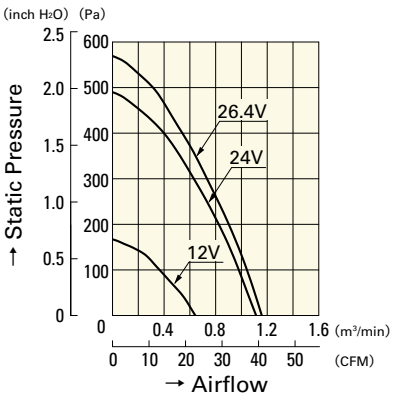

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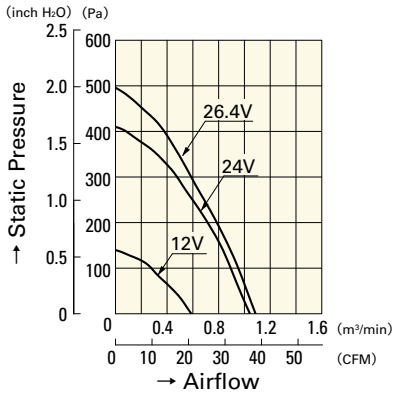

(inch H2O) (Pa)
2.5
2.0
1.5
1.0
0.5
0
600
500
400
300
200
100
→ Static Pressure
26.4V
24V
12V
0
0.4
0.8
1.2
1.6
(m³/min)
0
10
20
30
40
50
(CFM)
→ Airflow

9BMB24F201

120mm San Ace B120

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0),
  Impeller: Plastics (Flammability: UL94V-0)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃ , rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black (Sensor) yellow (Control) brown
- Storage Temperature ···−30℃ to +70℃ (Non-condensing)

120mm×32mm (Mass : 340g) 9BFB type

Specifications

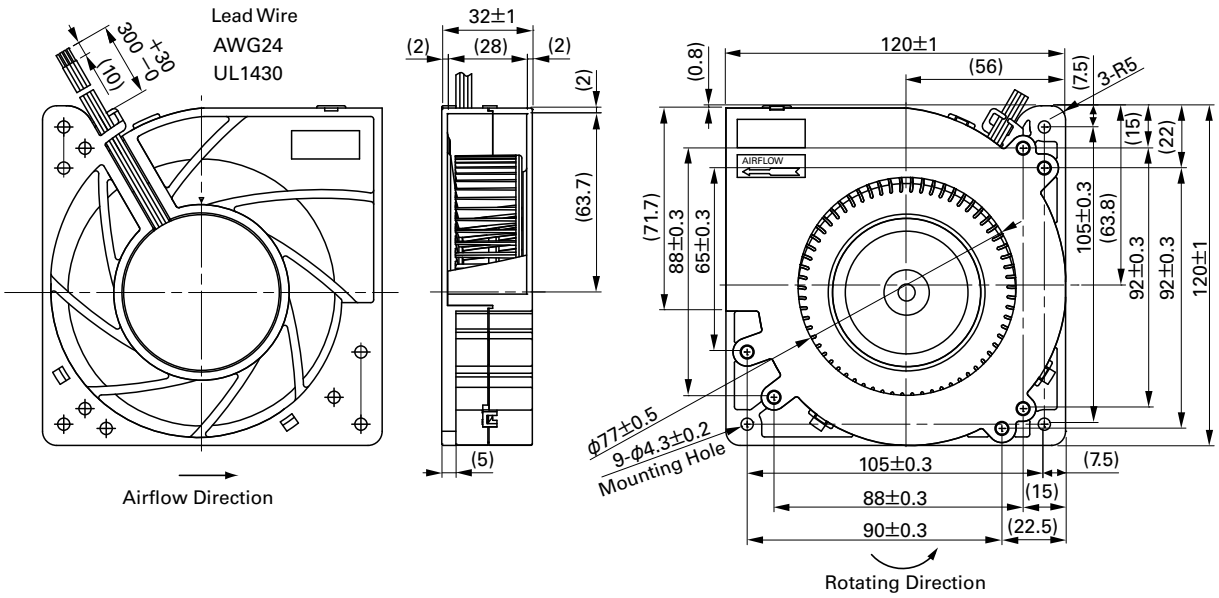
The following nos. **have PWM controls and pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM duty cycle※ [%]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
9BFB12P2H003 Note)	12	10.8 to 13.2	100	2.3	27.6	3,750	1.6	56.5	1,250	5.02	62	−20 to +70	40,000/60℃ (70,000/40℃)
9BFB24P2H003	24	21.6 to 26.4	100	1.1	26.4	3,750	1.6	56.5	1,250	5.02	62		
			0	0.12	2.88	1,300	0.46	16.2	43	0.17	41		

Note : Fan does not rotate when PWM duty cycle is 0%.

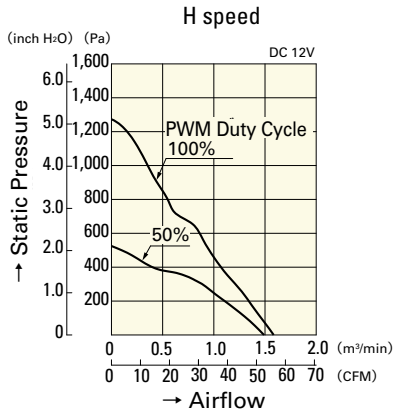
※PWM Frequency : 25kHz

Dimensions (unit: mm)

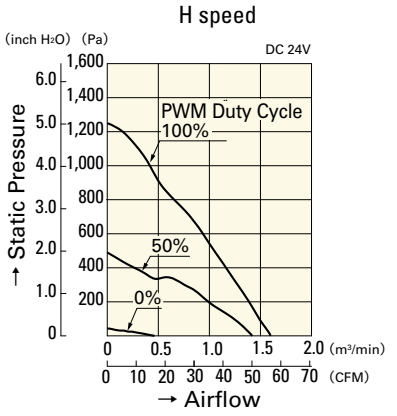


Airflow - Static Pressure Characteristics

PWM Duty Cycle

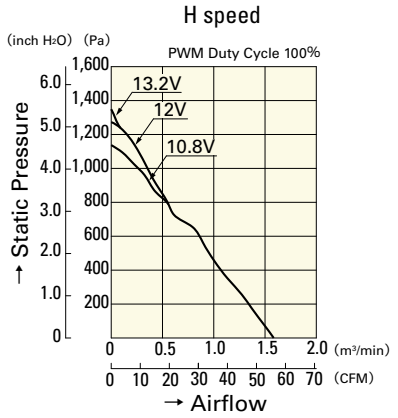


9BFB12P2H003

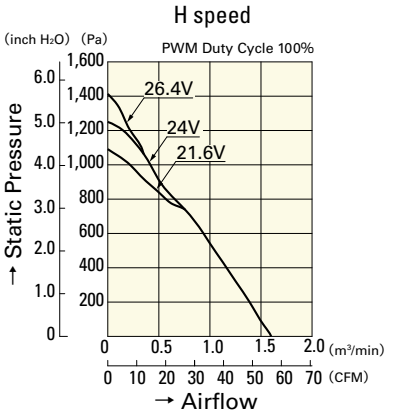


9BFB24P2H003

Operating Voltage Range

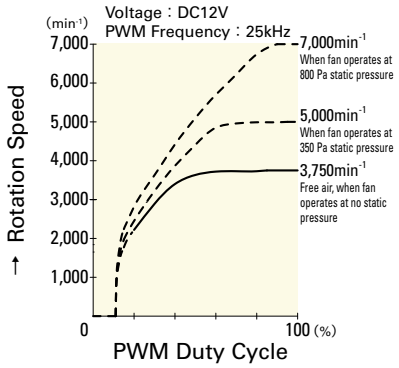


9BFB12P2H003

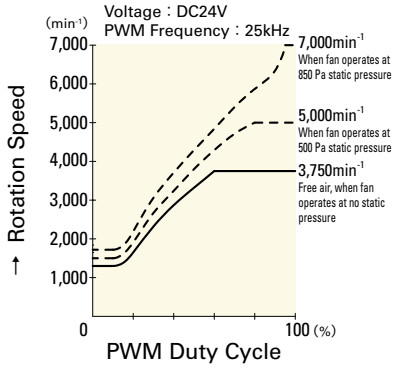


9BFB24P2H003

PWM Duty - Speed Characteristics Example



9BFB12P2H003



9BFB24P2H003

127mm San Ace B127

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0),
  Impeller: Plastics (Flammability: UL94V-1)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃ , rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black or blue (Sensor) yellow
- Storage Temperature ···−30℃ to +70℃ (Non-condensing)

127mm×32mm (Mass : 290g) 9BJ type

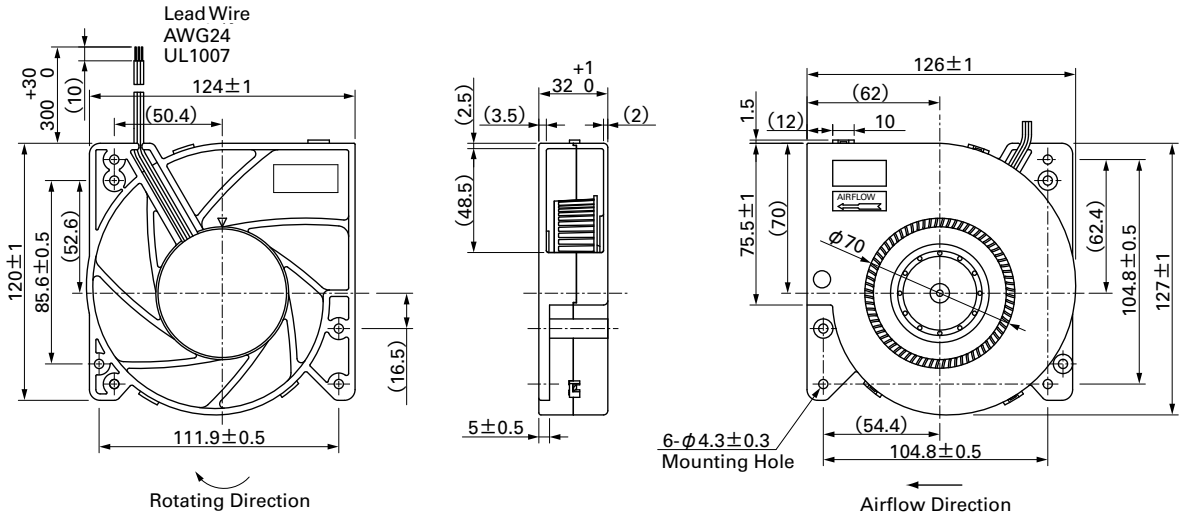
Specifications

The following nos. **have pulse sensors.**

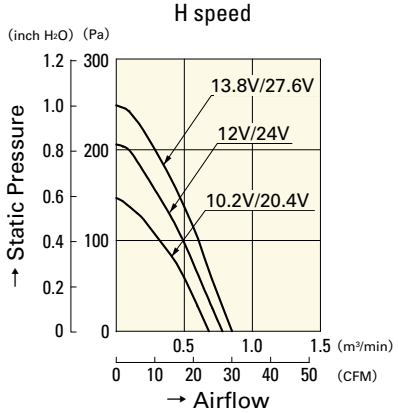
Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
109BJ12HC2	12	10.2 to 13.8	0.52	6.24	2,400	0.78	27.5	205.8	0.826	46	− 20 to + 70	40,000/60℃
109BJ12MC2			0.29	3.48	1,900	0.61	21.5	109.8	0.441	40		
109BJ24HC2	24	20.4 to 27.6	0.26	6.24	2,400	0.78	27.5	205.8	0.826	46	− 20 to + 60	
109BJ24MC2			0.15	3.6	1,900	0.61	21.5	109.8	0.441	40		

Other sensor specifications are available as options. Please refer to the index (p. 495).

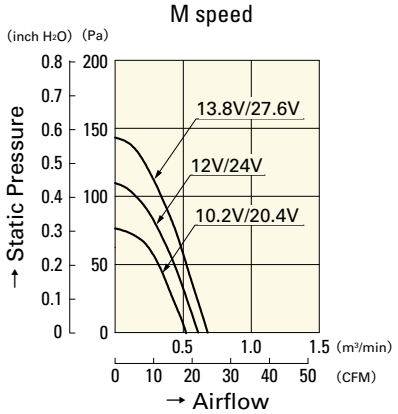
Dimensions (unit: mm)



Airflow - Static Pressure Characteristics



109BJ12HC2
109BJ24HC2



109BJ12MC2
109BJ24MC2

160mm San Ace B160

General Specifications

- Material ····· Frame: Plastics (Flammability: UL94V-0), Impeller: Plastics (Flammability: UL94V-1)
- Expected Life ····· Refer to specifications (L10:Survival rate: 90% at 60℃, rated voltage, and continuously run in a free air state)
- Lead Wire ····· ⊕red ⊖black or blue (Sensor) yellow
- Storage Temperature ···· −30℃ to +70℃ (Non-condensing)

160mm×40mm (Mass：580g) 9BG type

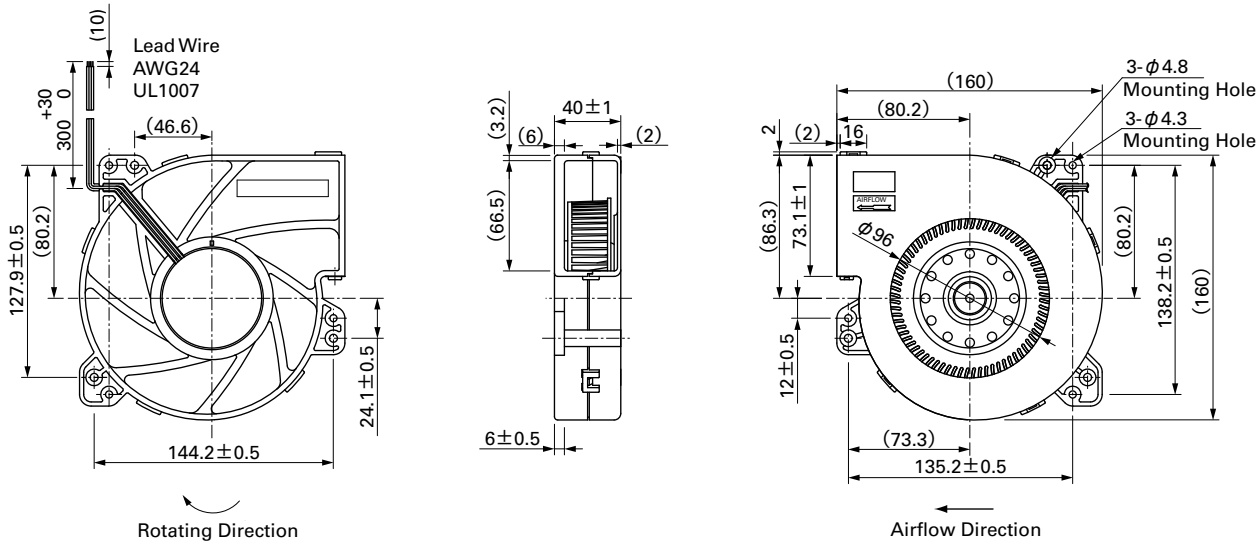
Specifications

The following nos. **have pulse sensors.**

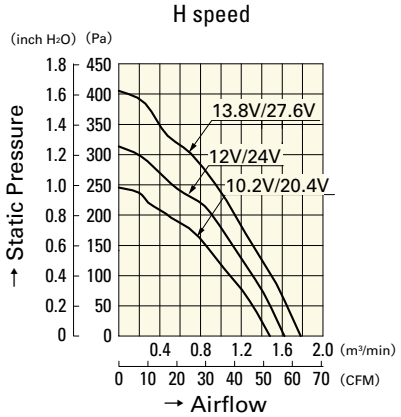
Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min⁻¹]	Max. Airflow [m³/min]	Max. Airflow [CFM]	Max. Static Pressure [Pa]	Max. Static Pressure [inchH₂O]	SPL [dB(A)]	Operating Temperature [℃]	Expected Life [h]
109BG12HC1	12	10.2 to 13.8	1.3	15.6	2,300	1.62	57.2	313.6	1.259	55	− 20 to + 60	40,000/60℃
109BG12MC1			0.64	7.68	1,800	1.26	44.5	156.8	0.629	50		
109BG24HC1	24	20.4 to 27.6	0.62	14.88	2,300	1.62	57.2	313.6	1.259	55		
109BG24MC1			0.31	7.44	1,800	1.26	44.5	156.8	0.629	50		

Other sensor specifications are available as options. Please refer to the index (p. 495).

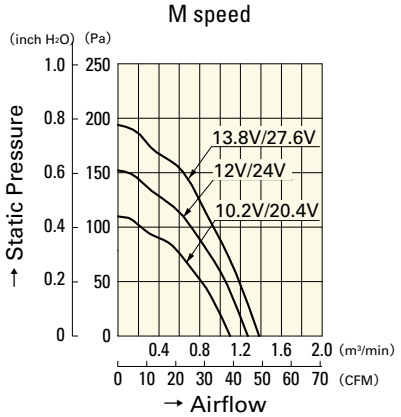
Dimensions (unit: mm)



Airflow - Static Pressure Characteristics



109BG12HC1
109BG24HC1



109BG12MC1
109BG24MC1