



# 80×80×25 mm

San Ace 80 9GV type

## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 547.
- 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 ..... 125 g

## Specifications

The models listed below **have ribs and pulse sensors with PWM control function**. For models without ribs, append "1" to the end of model numbers.

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]
9GV0812P4K03	12	10.2 to 13.8	100	0.87	10.4	5600	2.12 74.8	173.0 0.69	52	-20 to +70	40000/60°C
			0	0.1	1.2	1400	0.5 18.7	10.3 0.04	18		
9GV0812P4J03	12	10.2 to 13.8	100	0.47	5.6	4500	1.72 60.7	110.0 0.44	46		
			0	0.07	0.8	1200	0.45 16.2	7.5 0.03	14		
9GV0824P4K01	24	20.4 to 27.6	100	0.44	10.56	5600	2.12 74.8	173.0 0.69	52		
			0	0.06	1.44	1400	0.53 18.7	10.8 0.04	18		
9GV0848P4K03	48	43 to 53	100	0.22	10.56	5600	2.12 74.8	173.0 0.69	52		
			0	0.04	1.92	1500	0.57 20.1	12.4 0.05	19		

\* PWM frequency: 25 kHz

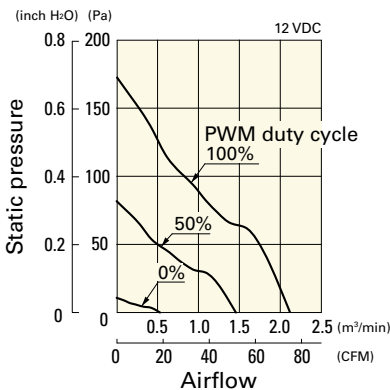
The following sensor and control options are available for selection.

Differs according to the model. Refer to the table on p. 574. Without sensor Pulse sensor Lock sensor

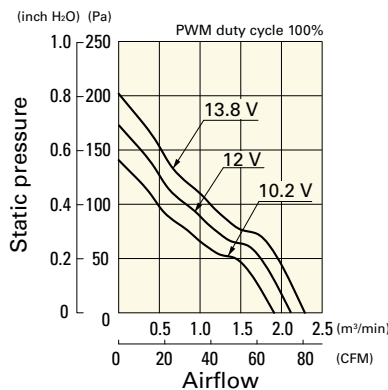
## Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GV0812P4K03** With pulse sensor with PWM control function

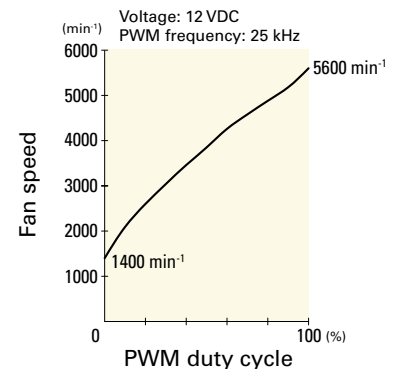
PWM duty cycle



Operating voltage range



PWM duty - Speed characteristics example



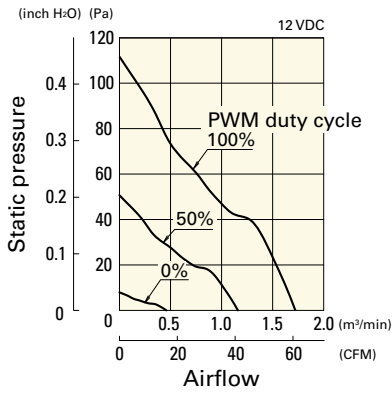
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

DC

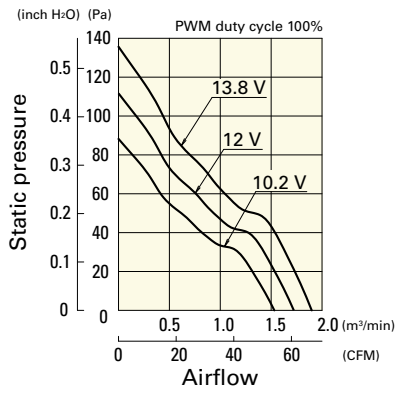
DC Fan 80 mm sq.

## 9GV0812P4J03 With pulse sensor with PWM control function

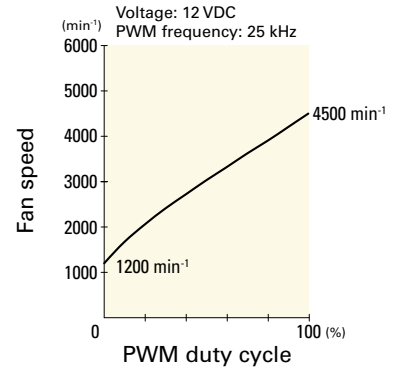
PWM duty cycle



Operating voltage range

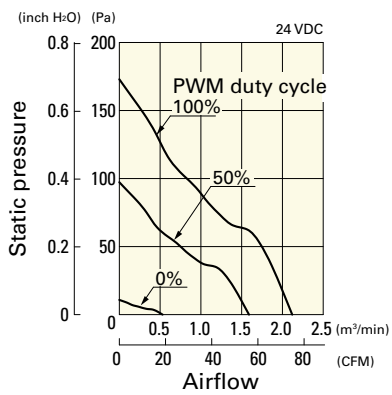


PWM duty - Speed characteristics example

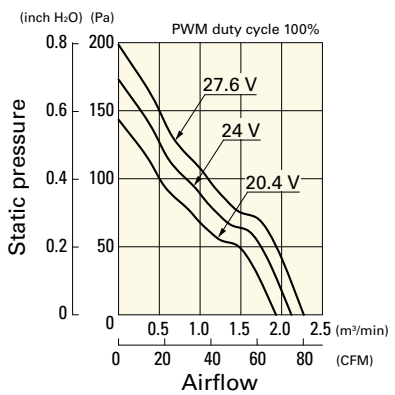


## 9GV0824P4K01 With pulse sensor with PWM control function

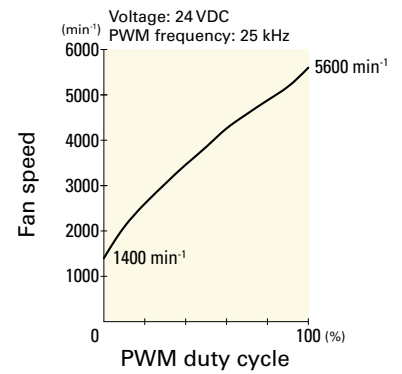
PWM duty cycle



Operating voltage range

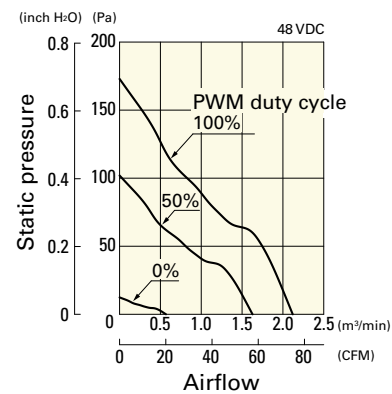


PWM duty - Speed characteristics example

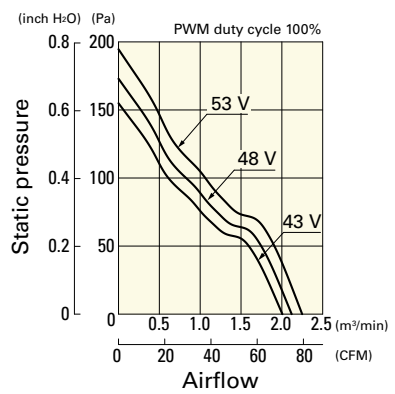


## 9GV0848P4K03 With pulse sensor with PWM control function

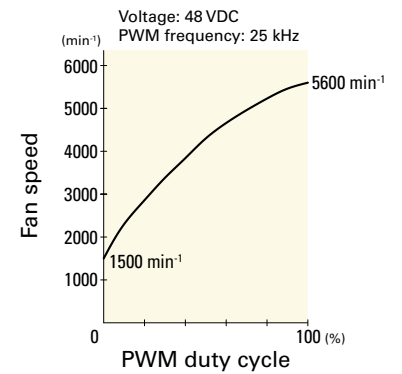
PWM duty cycle



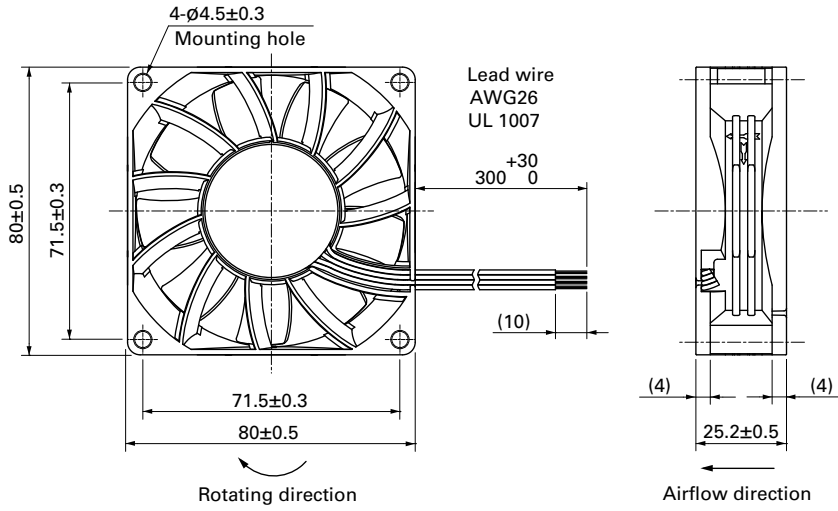
Operating voltage range



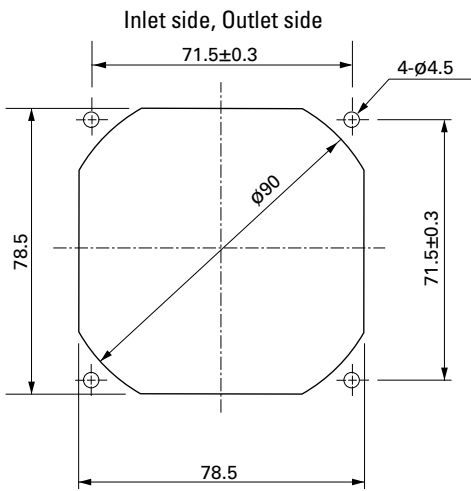
PWM duty - Speed characteristics example



**Dimensions (unit: mm)** (With ribs)



**Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)**



**Options**

Finger guards

page: p. 532

Model no.: 109-049E, 109-049H, 109-049C

Resin finger guards

page: p. 539

Model no.: 109-1002G

Resin filter kits

page: p. 540

Model no.: 109-1002F13 (13PPI), 109-1002F20 (20PPI),  
109-1002F30 (30PPI), 109-1002F40 (40PPI)

Models listed in the main section of this catalog	List of models (models not listed in the main section of this catalog are options. Standards for optional model numbers may differ from the certified standards listed at right. Contact us for details of models with "-" model numbers.)				Frame size	Rib	Standard (certification status is for the models listed in this catalog, and standards for optional model numbers may differ.)			page
	Without sensor	With pulse sensor	With lock sensor	With PWM control function and pulse sensor			UL (cUL)	CSA (cUL)	TÜV	
							✓	✓	✓	
9GV0312H301	9GV0312H302	9GV0312H301	9GV0312H3D01	—	38 × 38 × 28 mm	Yes	✓	✓	✓	17
9GV0312H3011	—	9GV0312H3011	—	—	38 × 38 × 28 mm	No	✓	✓	✓	17
9GV0312J301	9GV0312J302	9GV0312J301	9GV0312J3D01	9GV0312P3J03	38 × 38 × 28 mm	Yes	✓	✓	✓	17
9GV0312J3011	9GV0312J3021	9GV0312J3011	—	9GV0312P3J031	38 × 38 × 28 mm	No	✓	✓	✓	17
9GV0312K301	—	9GV0312K301	9GV0312K3D01	9GV0312P3K01	38 × 38 × 28 mm	Yes	✓	✓	✓	17
9GV0312K3011	—	9GV0312K3011	9GV0312K3D011	—	38 × 38 × 28 mm	No	✓	✓	✓	17
9GV0412C301	—	9GV0412C301	9GV0412C3D01	—	40 × 40 × 28 mm	Yes	✓	✓	✓	45
9GV0412C3011	—	9GV0412C3011	9GV0412C3D011	—	40 × 40 × 28 mm	No	✓	✓	✓	45
9GV0412G301	9GV0412G302	9GV0412G301	9GV0412G3D01	9GV0412P3G03	40 × 40 × 28 mm	Yes	✓	✓	✓	45
9GV0412G3011	9GV0412G3021	9GV0412G3011	9GV0412G3D011	9GV0412P3G031	40 × 40 × 28 mm	No	✓	✓	✓	45
9GV0412H301	—	9GV0412H301	9GV0412H3D01	9GV0412P3H01	40 × 40 × 28 mm	Yes	✓	✓	✓	45
9GV0412H3011	—	9GV0412H3011	—	—	40 × 40 × 28 mm	No	✓	✓	✓	45
9GV0412J301	9GV0412J302	9GV0412J301	9GV0412J3D01	9GV0412P3J03	40 × 40 × 28 mm	Yes	✓	✓	✓	45
9GV0412J3011	9GV0412J3021	9GV0412J3011	9GV0412J3D011	9GV0412P3J031	40 × 40 × 28 mm	No	✓	✓	✓	45
9GV0412K301	9GV0412K302	9GV0412K301	9GV0412K3D01	9GV0412P3K03	40 × 40 × 28 mm	Yes	✓	✓	✓	45
9GV0412K3011	—	9GV0412K3011	—	—	40 × 40 × 28 mm	No	✓	✓	✓	45
9GV0612P1G03	9GV0612G102	9GV0612G101	9GV0612G1D01	9GV0612P1G03	60 × 60 × 38 mm	Yes	✓	✓	✓	88
9GV0612P1G031	9GV0612G1021	9GV0612G1011	9GV0612G1D011	9GV0612P1G031	60 × 60 × 38 mm	No	✓	✓	✓	88
9GV0612P1H03	9GV0612H102	9GV0612H101	9GV0612H1D01	9GV0612P1H03	60 × 60 × 38 mm	Yes	✓	✓	✓	88
9GV0612P1H031	9GV0612H1021	9GV0612H1011	9GV0612H1D011	9GV0612P1H031	60 × 60 × 38 mm	No	✓	✓	✓	88
9GV0612P1L01	9GV0612L102	—	—	9GV0612P1L01	60 × 60 × 38 mm	Yes	✓	✓	✓	88
9GV0612P1L011	9GV0612L1021	9GV0612L1011	9GV0612L1D011	9GV0612P1L011	60 × 60 × 38 mm	No	✓	✓	✓	88
9GV0612P1M03	9GV0612M102	9GV0612M101	9GV0612M1D01	9GV0612P1M03	60 × 60 × 38 mm	Yes	✓	✓	✓	88
9GV0612P1M031	—	9GV0612M1011	9GV0612M1D011	9GV0612P1M031	60 × 60 × 38 mm	No	✓	✓	✓	88
9GV0624P1G03	9GV0624G102	—	9GV0624G1D01	9GV0624P1G03	60 × 60 × 38 mm	Yes	✓	✓	✓	88
9GV0624P1G031	9GV0624G1021	—	—	9GV0624P1G031	60 × 60 × 38 mm	No	✓	✓	✓	88
9GV0624P1M03	9GV0624M102	9GV0624M101	—	9GV0624P1M03	60 × 60 × 38 mm	Yes	✓	✓	✓	88
9GV0624P1M031	—	—	—	9GV0624P1M031	60 × 60 × 38 mm	No	✓	✓	✓	88
9GV0648P1H03	—	—	—	9GV0648P1H03	60 × 60 × 38 mm	Yes	✓	✓	✓	88
9GV0648P1H031	—	—	—	9GV0648P1H031	60 × 60 × 38 mm	No	✓	✓	✓	88
9GV0812P1F03	—	—	—	9GV0812P1F03	80 × 80 × 38 mm	Yes	✓	✓	✓	136
9GV0812P1F031	—	—	—	9GV0812P1F031	80 × 80 × 38 mm	No	✓	✓	✓	136
9GV0812P1G03	9GV0812G102	9GV0812G101	—	9GV0812P1G03	80 × 80 × 38 mm	Yes	✓	✓	✓	136
9GV0812P1G031	9GV0812G1021	9GV0812G1011	—	9GV0812P1G031	80 × 80 × 38 mm	No	✓	✓	✓	136
9GV0812P1H03	9GV0812H102	9GV0812H101	—	9GV0812P1H03	80 × 80 × 38 mm	Yes	✓	✓	✓	136
9GV0812P1H031	9GV0812H1021	9GV0812H1011	—	9GV0812P1H031	80 × 80 × 38 mm	No	✓	✓	✓	136
9GV0812P1M03	—	—	—	9GV0812P1M03	80 × 80 × 38 mm	Yes	✓	✓	✓	136
9GV0812P1M031	—	—	—	9GV0812P1M031	80 × 80 × 38 mm	No	✓	✓	✓	136
9GV0812P4J03	9GV0812J402	9GV0812J401	—	9GV0812P4J03	80 × 80 × 25 mm	Yes	✓	✓	✓	112
9GV0812P4J031	9GV0812J4021	9GV0812J4011	—	9GV0812P4J031	80 × 80 × 25 mm	No	✓	✓	✓	112
9GV0812P4K03	—	9GV0812K401	9GV0812K4D01	9GV0812P4K03	80 × 80 × 25 mm	Yes	✓	✓	✓	112
9GV0812P4K031	9GV0812K4021	9GV0812K4011	9GV0812K4D011	9GV0812P4K031	80 × 80 × 25 mm	No	✓	✓	✓	112
9GV0824P1G03	9GV0824G102	9GV0824G101	—	9GV0824P1G03	80 × 80 × 38 mm	Yes	✓	✓	✓	136
9GV0824P1G031	—	—	—	9GV0824P1G031	80 × 80 × 38 mm	No	✓	✓	✓	136
9GV0824P4K01	9GV0824K402	9GV0824K401	—	9GV0824P4K01	80 × 80 × 25 mm	Yes	✓	✓	✓	112
9GV0824P4K011	—	—	—	9GV0824P4K011	80 × 80 × 25 mm	No	✓	✓	✓	112
9GV0848P1G03	9GV0848G102	9GV0848G101	—	9GV0848P1G03	80 × 80 × 38 mm	Yes	✓	✓	✓	136
9GV0848P1G031	—	9GV0848G1011	—	9GV0848P1G031	80 × 80 × 38 mm	No	✓	✓	✓	136
9GV0848P4K03	—	9GV0848K401	—	9GV0848P4K03	80 × 80 × 25 mm	Yes	✓	✓	✓	112
9GV0848P4K031	—	—	—	9GV0848P4K031	80 × 80 × 25 mm	No	✓	✓	✓	112
9GV0912P1F03	—	—	—	9GV0912P1F03	92 × 92 × 38 mm	Yes	✓	✓	✓	160
9GV0912P1F031	—	—	—	9GV0912P1F031	92 × 92 × 38 mm	No	✓	✓	✓	160
9GV0912P1G03	—	—	—	9GV0912P1G03	92 × 92 × 38 mm	Yes	✓	✓	✓	160
9GV0912P1G031	—	—	—	9GV0912P1G031	92 × 92 × 38 mm	No	✓	✓	✓	160
9GV0912P1H03	9GV0912H102	9GV0912H101	9GV0912H1D01	9GV0912P1H03	92 × 92 × 38 mm	Yes	✓	✓	✓	160
9GV0912P1H031	—	—	—	9GV0912P1H031	92 × 92 × 38 mm	No	✓	✓	✓	160
9GV0948P1F03	—	—	—	9GV0948P1F03	92 × 92 × 38 mm	Yes	✓	✓	✓	160
9GV0948P1F031	—	—	—	9GV0948P1F031	92 × 92 × 38 mm	No	✓	✓	✓	160
9GV0948P1H03	9GV0948H102	9GV0948H101	—	9GV0948P1H03	92 × 92 × 38 mm	Yes	✓	✓	✓	160
9GV0948P1H031	9GV0948H1021	—	—	9GV0948P1H031	92 × 92 × 38 mm	No	✓	✓	✓	160
9GV1212P1G01	—	—	—	9GV1212P1G01	120 × 120 × 38 mm	Yes	✓	✓	✓	182

Please contact your point of sale regarding low-speed sensors.