



60×60×15 mm

San Ace 60 9GA type Low Power Consumption Fan 

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. 616.
- 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
(For models without PWM control, there is no speed control wiring.)
- Mass 50 g

Specifications

The models listed below **have ribs and a pulse sensor with PWM control.**

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]
9GA0612P7G01	12	10.2 to 13.8	100	0.16	1.92	5900	0.68 24.0	80 0.32	38	-20 to +70	40000/60°C (70000/40°C)
			0	0.05	0.6	1500	0.17 6.0	5.2 0.02	10		
9GA0612P7H01			100	0.1	1.2	4900	0.56 19.7	55.6 0.223	34		
			0	0.03	0.36	1300	0.15 5.3	3.9 0.015	8		
9GA0624P7G01	24	20.4 to 27.6	100	0.08	1.92	5900	0.68 24.0	80 0.32	38		

* 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.

The models listed below **have ribs and a pulse sensor.**

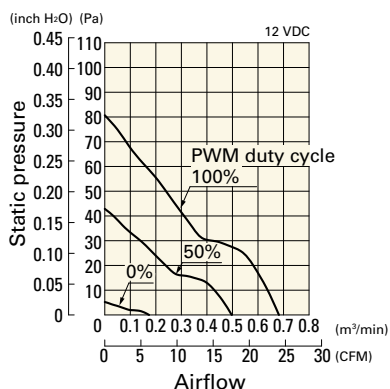
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9GA0612G701	12	6 to 13.8	0.16	1.92	5900	0.68 24	80 0.32	38	-20 to +70	40000/60°C (70000/40°C)
9GA0612H701			0.1	1.2	4900	0.56 19.7	55.6 0.223	34		
9GA0612M701			0.08	0.96	3900	0.45 15.9	35.3 0.142	28		
9GA0612L701			0.03	0.36	2800	0.31 10.9	18 0.072	17		
9GA0612B701	24	10.2 to 13.8	0.025	0.3	2000	0.22 7.8	9.8 0.039	10	-20 to +70	40000/60°C (70000/40°C)
9GA0624M701		12 to 27.6	0.05	1.2	3900	0.45 15.9	35.3 0.142	28		
9GA0624L701		20.4 to 27.6	0.02	0.48	2800	0.31 10.9	18 0.072	17		

Note: Sensor and control options are available for selection. Refer to the table on p. 648 to 649.

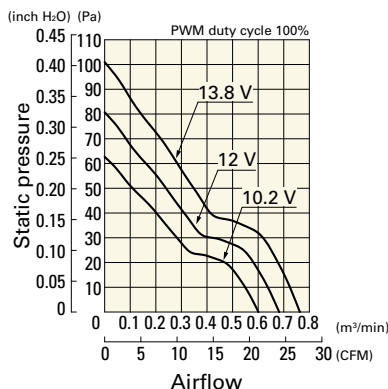
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0612P7G01 With pulse sensor with PWM control

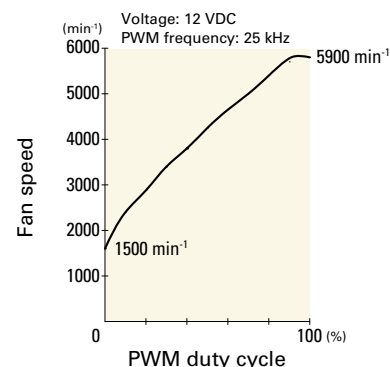
PWM duty cycle



Operating voltage range



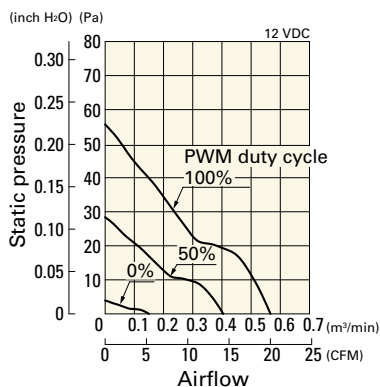
PWM duty - Speed characteristics example



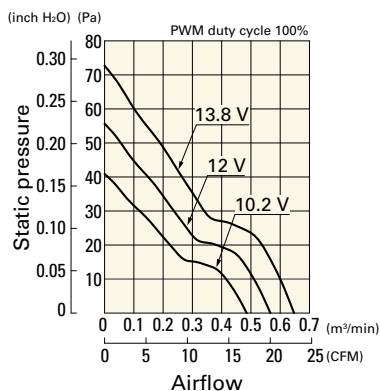
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0612P7H01 With pulse sensor with PWM control

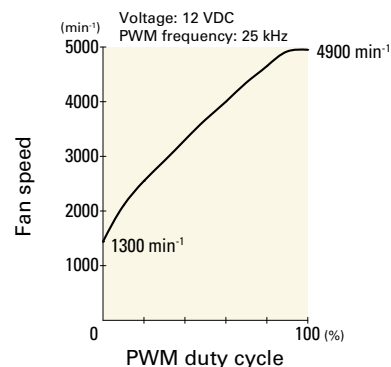
PWM duty cycle



Operating voltage range

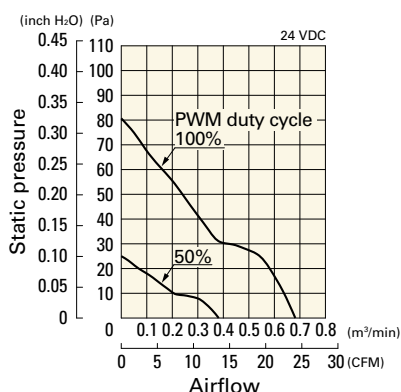


PWM duty - Speed characteristics example

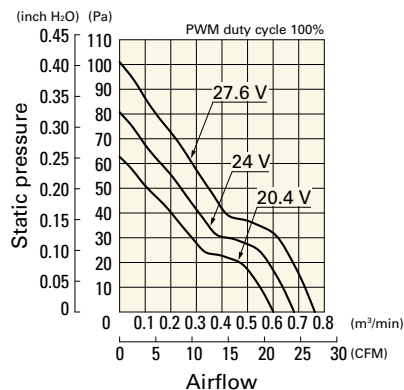


9GA0624P7G01 With pulse sensor with PWM control

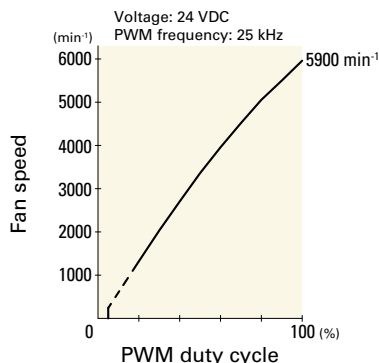
PWM duty cycle



Operating voltage range



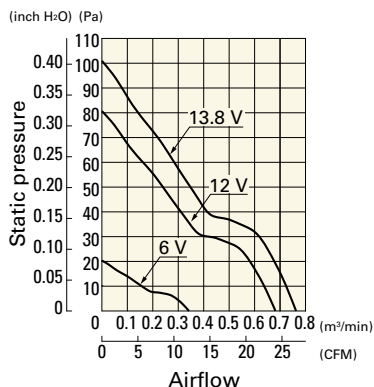
PWM duty - Speed characteristics example



Airflow - Static Pressure Characteristics

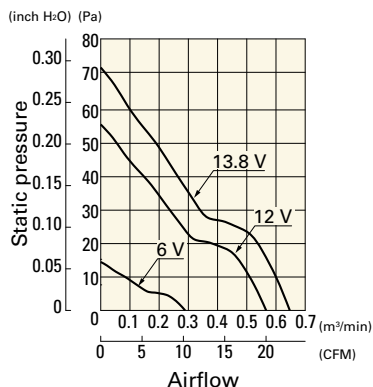
9GA0612G701 With pulse sensor

Operating voltage range



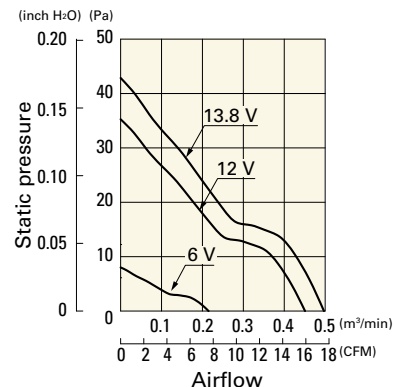
9GA0612H701 With pulse sensor

Operating voltage range



9GA0612M701 With pulse sensor

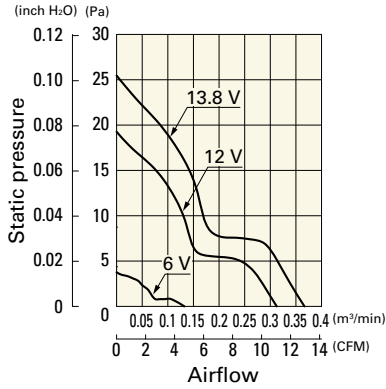
Operating voltage range



Airflow - Static Pressure Characteristics

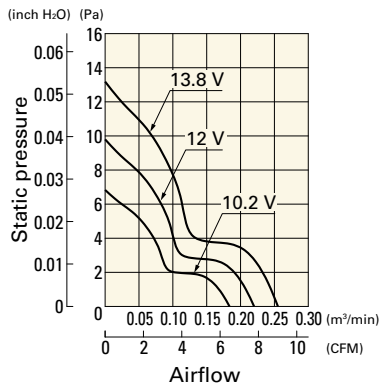
9GA0612L701 With pulse sensor

Operating voltage range



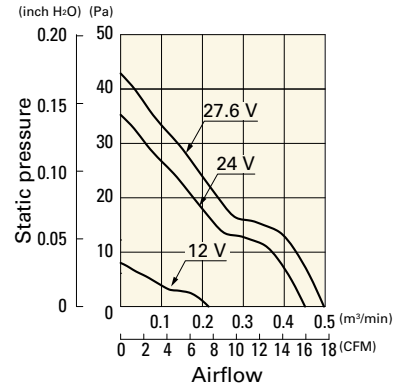
9GA0612B701 With pulse sensor

Operating voltage range



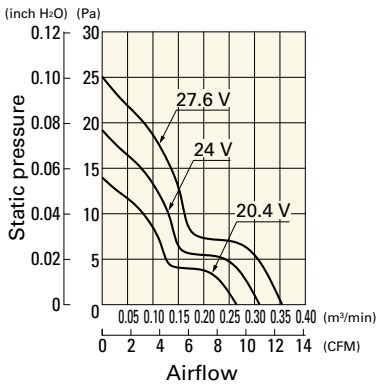
9GA0624M701 With pulse sensor

Operating voltage range

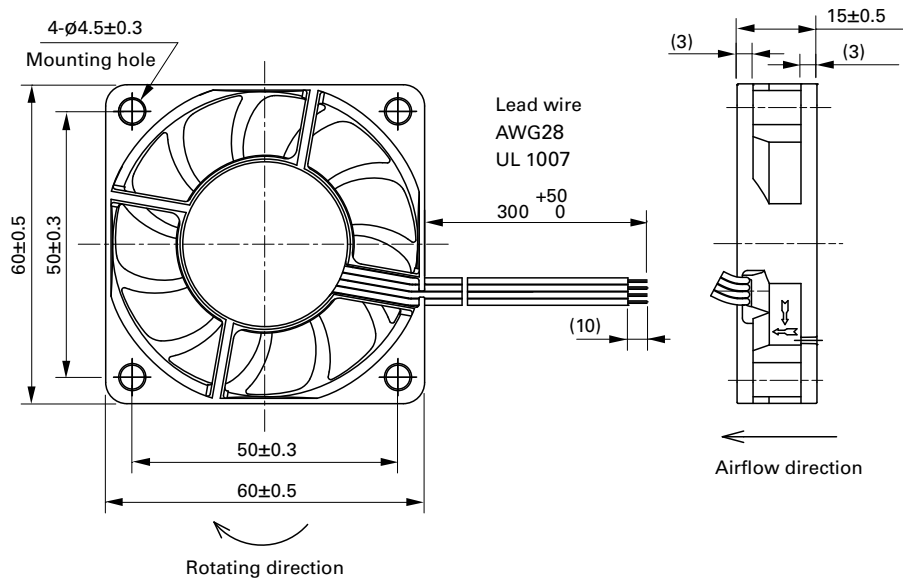


9GA0624L701 With pulse sensor

Operating voltage range



Dimensions (unit: mm) (With pulse sensor with PWM control)



Models listed in product pages	List of models (The models listed on the right of the models listed in product pages are option models. Option models may not necessarily comply with the same standards as the models listed in product pages. Contact us for details of the "—" models.)				Frame size	Rib	page
	Without sensor	With pulse sensor	With lock sensor	With PWM control and pulse sensor			
9GA0412H7001	9GA0412H7002	9GA0412H7001	9GA0412H7D001	—	40 × 40 × 15 mm	Yes	29
9GA0412L7001	—	9GA0412L7001	—	—	40 × 40 × 15 mm	Yes	29
9GA0412P3G01	9GA0412G302	9GA0412G301	—	9GA0412P3G01	40 × 40 × 28 mm	Yes	47
9GA0412P3G011	9GA0412G3021	9GA0412G3011	—	9GA0412P3G011	40 × 40 × 28 mm	No	47
9GA0412P3H01	9GA0412H302	9GA0412H301	9GA0412H3D01	9GA0412P3H01	40 × 40 × 28 mm	Yes	47
9GA0412P3H011	9GA0412H3021	9GA0412H3011	9GA0412H3D011	9GA0412P3H011	40 × 40 × 28 mm	No	47
9GA0412P3J01	9GA0412J302	9GA0412J301	9GA0412J3D01	9GA0412P3J01	40 × 40 × 28 mm	Yes	47
9GA0412P3J011	9GA0412J3021	9GA0412J3011	—	9GA0412P3J011	40 × 40 × 28 mm	No	47
9GA0412P3M01	9GA0412M302	9GA0412M301	9GA0412M3D01	9GA0412P3M01	40 × 40 × 28 mm	Yes	47
9GA0412P3M011	9GA0412M3021	9GA0412M3011	—	9GA0412P3M011	40 × 40 × 28 mm	No	47
9GA0412P6F001	9GA0412F6002	9GA0412F6001	—	9GA0412P6F001	40 × 40 × 20 mm	Yes	34
9GA0412P6G001	9GA0412G6002	9GA0412G6001	—	9GA0412P6G001	40 × 40 × 20 mm	Yes	34
9GA0412P6H001	9GA0412H6002	9GA0412H6001	—	9GA0412P6H001	40 × 40 × 20 mm	Yes	34
9GA0412P7G001	9GA0412G7002	9GA0412G7001	9GA0412G7D001	9GA0412P7G001	40 × 40 × 15 mm	Yes	29
9GA0424P3G001	9GA0424G3002	9GA0424G3001	9GA0424G3D001	9GA0424P3G001	40 × 40 × 28 mm	Yes	47
9GA0424P3G0011	9GA0424G30021	9GA0424G30011	—	9GA0424P3G0011	40 × 40 × 28 mm	No	47
9GA0424P3H001	9GA0424H3002	9GA0424H3001	9GA0424H3D001	9GA0424P3H001	40 × 40 × 28 mm	Yes	47
9GA0424P3H0011	9GA0424H30021	9GA0424H30011	—	9GA0424P3H0011	40 × 40 × 28 mm	No	47
9GA0424P3J001	9GA0424J3002	9GA0424J3001	9GA0424J3D001	9GA0424P3J001	40 × 40 × 28 mm	Yes	47
9GA0424P3J0011	9GA0424J30021	9GA0424J30011	—	9GA0424P3J0011	40 × 40 × 28 mm	No	47
9GA0424P3M001	9GA0424M3002	9GA0424M3001	9GA0424M3D001	9GA0424P3M001	40 × 40 × 28 mm	Yes	47
9GA0424P3M0011	9GA0424M30021	9GA0424M30011	—	9GA0424P3M0011	40 × 40 × 28 mm	No	47
9GA0424P6F001	9GA0424F6002	9GA0424F6001	9GA0424F6D001	9GA0424P6F001	40 × 40 × 20 mm	Yes	34
9GA0424P6G001	9GA0424G6002	9GA0424G6001	9GA0424G6D001	9GA0424P6G001	40 × 40 × 20 mm	Yes	34
9GA0424P6H001	9GA0424H6002	9GA0424H6001	9GA0424H6D001	9GA0424P6H001	40 × 40 × 20 mm	Yes	34
9GA0512P7A001	9GA0512A7002	9GA0512A7001	—	9GA0512P7A001	52 × 52 × 15 mm	Yes	57
9GA0512P7G001	9GA0512G7002	9GA0512G7001	—	9GA0512P7G001	52 × 52 × 15 mm	Yes	57
9GA0512P7H001	9GA0512H7002	9GA0512H7001	9GA0512H7D001	9GA0512P7H001	52 × 52 × 15 mm	Yes	57
9GA0512P7M001	9GA0512M7002	9GA0512M7001	—	9GA0512P7M001	52 × 52 × 15 mm	Yes	57
9GA0524P7A001	9GA0524A7002	9GA0524A7001	9GA0524A7D001	9GA0524P7A001	52 × 52 × 15 mm	Yes	57
9GA0524P7G001	9GA0524G7002	9GA0524G7001	9GA0524G7D001	9GA0524P7G001	52 × 52 × 15 mm	Yes	57
9GA0524P7H001	9GA0524H7002	9GA0524H7001	—	9GA0524P7H001	52 × 52 × 15 mm	Yes	57
9GA0524P7M001	9GA0524M7002	9GA0524M7001	—	9GA0524P7M001	52 × 52 × 15 mm	Yes	57
9GA0612B701	—	9GA0612B701	—	—	60 × 60 × 15 mm	Yes	63
9GA0612G701	9GA0612G702	9GA0612G701	9GA0612G7D01	9GA0612P7G01	60 × 60 × 15 mm	Yes	63
9GA0612G9001	9GA0612G9002	9GA0612G9001	9GA0612G9D001	9GA0612P9G001	60 × 60 × 10 mm	Yes	61
9GA0612H6001	9GA0612H6002	9GA0612H6001	9GA0612H6D001	—	60 × 60 × 20 mm	Yes	67
9GA0612H701	9GA0612H702	9GA0612H701	9GA0612H7D01	9GA0612P7H01	60 × 60 × 15 mm	Yes	63
9GA0612H9001	9GA0612H9002	9GA0612H9001	9GA0612H9D001	—	60 × 60 × 10 mm	Yes	61
9GA0612L701	9GA0612L702	9GA0612L701	9GA0612L7D01	—	60 × 60 × 15 mm	Yes	63
9GA0612L9001	9GA0612L9002	9GA0612L9001	9GA0612L9D001	—	60 × 60 × 10 mm	Yes	61
9GA0612M6001	9GA0612M6002	9GA0612M6001	9GA0612M6D001	—	60 × 60 × 20 mm	Yes	67
9GA0612M701	9GA0612M702	9GA0612M701	9GA0612M7D01	—	60 × 60 × 15 mm	Yes	63
9GA0612P1H03	9GA0612H102	9GA0612H101	—	9GA0612P1H03	60 × 60 × 38 mm	Yes	86
9GA0612P1H031	9GA0612H1021	9GA0612H1011	—	9GA0612P1H031	60 × 60 × 38 mm	No	86
9GA0612P1J03	9GA0612J102	9GA0612J101	9GA0612J1D01	9GA0612P1J03	60 × 60 × 38 mm	Yes	86
9GA0612P1J031	9GA0612J1021	9GA0612J1011	—	9GA0612P1J031	60 × 60 × 38 mm	No	86
9GA0612P1K03	9GA0612K102	9GA0612K101	9GA0612K1D01	9GA0612P1K03	60 × 60 × 38 mm	Yes	86
9GA0612P1K031	9GA0612K1021	9GA0612K1011	9GA0612K1D011	9GA0612P1K031	60 × 60 × 38 mm	No	86
9GA0612P1K60	9GA0612K162	9GA0612K161	—	9GA0612P1K60	60 × 60 × 38 mm	Yes	86
9GA0612P1K601	9GA0612K1621	9GA0612K1611	—	9GA0612P1K601	60 × 60 × 38 mm	No	86
9GA0612P6G001	9GA0612G6002	9GA0612G6001	—	9GA0612P6G001	60 × 60 × 20 mm	Yes	67
9GA0612P6S001	9GA0612S6002	9GA0612S6001	—	9GA0612P6S001	60 × 60 × 20 mm	Yes	67
9GA0612P7G01	9GA0612G702	9GA0612G701	9GA0612G7D01	9GA0612P7G01	60 × 60 × 15 mm	Yes	63
9GA0612P7H01	9GA0612H702	9GA0612H701	9GA0612H7D01	9GA0612P7H01	60 × 60 × 15 mm	Yes	63
9GA0624H6001	9GA0624H6002	9GA0624H6001	9GA0624H6D001	—	60 × 60 × 20 mm	Yes	67
9GA0624L701	9GA0624L702	9GA0624L701	9GA0624L7D01	—	60 × 60 × 15 mm	Yes	63

Note: For compliance with standards, see individual product pages. Please contact your point of sale regarding low-speed sensors.