40×40×28 mm

San Ace 40 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)
- 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 ····· 53 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⁻¹]	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [˚C]	Expected life [h]
9GA0412P3K01	12	10.8 to 13.2	100	0.92	11.04	22000	0.81	28.6	799	3.21	61	-20 to +60	30000/60˚C
			0	0.1	1.2	6500	0.23	8.12	68	0.27	32		
9GA0412P3J01			100	0.49	5.88	18000	0.67	23.7	535	2.15	54	-20 to +70	40000/60˚C
			0	0.05	0.6	4500	0.16	5.7	33	0.13	22		
9GA0412P3G01			100	0.39	4.68	16500	0.61	21.5	450	1.81	53		
			0	0.05	0.6	4500	0.16	5.7	33	0.13	22		
9GA0412P3H01			100	0.28	3.36	14500	0.54	19.1	347	1.39	50		
			0	0.04	0.48	3500	0.13	4.6	20	0.08	17		
9GA0412P3M01			100	0.21	2.52	12500	0.46	16.2	258	1.04	47		
			0	0.04	0.48	3500	0.13	4.6	20	0.08	17		
9GA0424P3J001**	24	21.6 to 26.4	100	0.27	6.48	18000	0.67	23.7	535	2.15	54		
9GA0424P3G001**			100	0.22	5.28	16500	0.61	21.5	450	1.81	53		
9GA0424P3H001**			100	0.16	3.84	14500	0.54	19.1	347	1.39	50		
9GA0424P3M001**			100	0.11	2.64	12500	0.46	16.2	258	1.04	47		

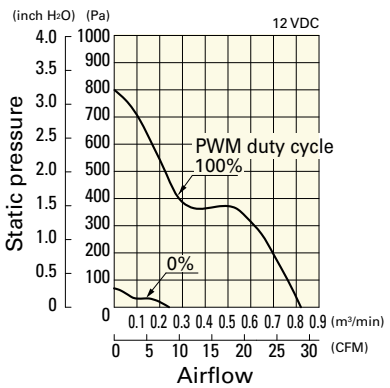
* PWM frequency: 25 kHz ** Fan does not rotate when PWM duty cycle is 0%.

The following sensor and control options are available for selection.
Available for all models. **Without sensor** **Pulse sensor**
Differs according to the model. Refer to the table on p. 570. **Lock sensor**

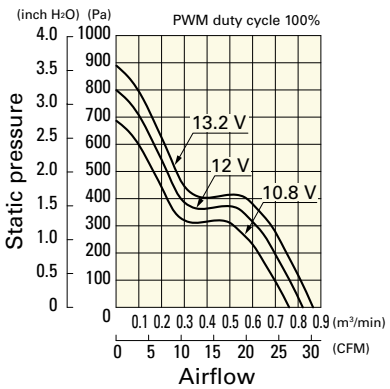
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0412P3K01 With pulse sensor with PWM control function

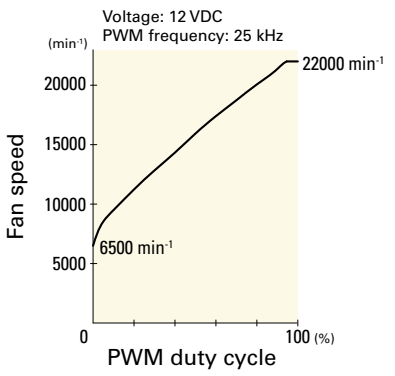
PWM duty cycle



Operating voltage range



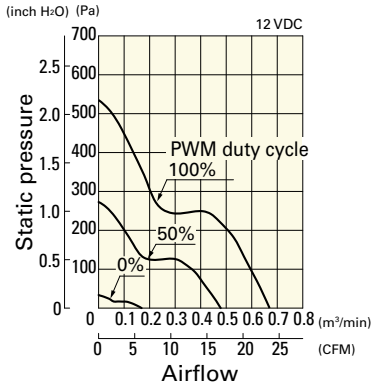
PWM duty - Speed characteristics example



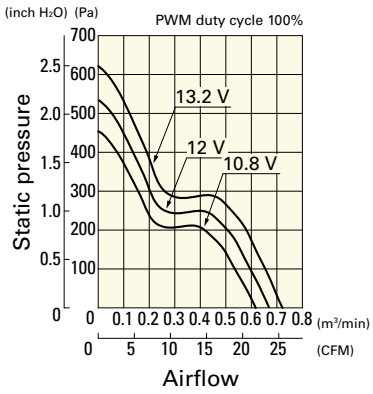
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0412P3J01 With pulse sensor with PWM control function

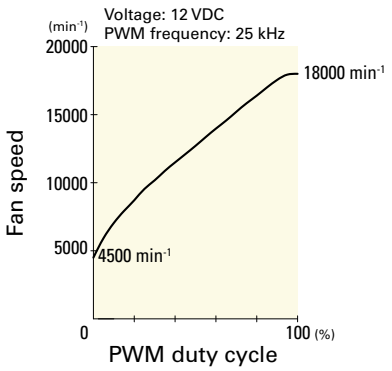
PWM duty cycle



Operating voltage range

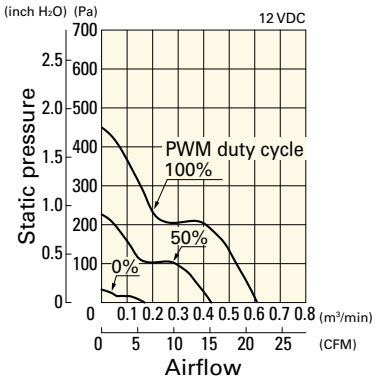


PWM duty - Speed characteristics example

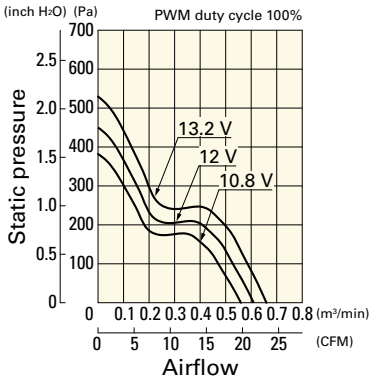


9GA0412P3G01 With pulse sensor with PWM control function

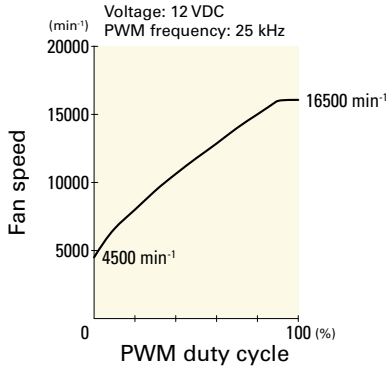
PWM duty cycle



Operating voltage range

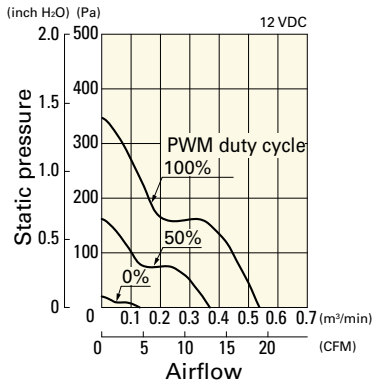


PWM duty - Speed characteristics example

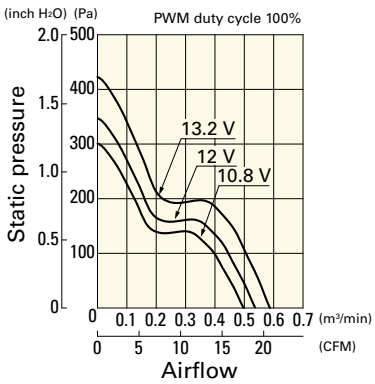


9GA0412P3H01 With pulse sensor with PWM control function

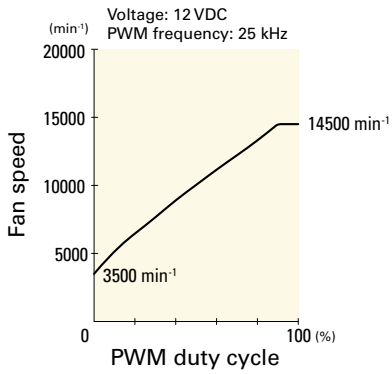
PWM duty cycle



Operating voltage range

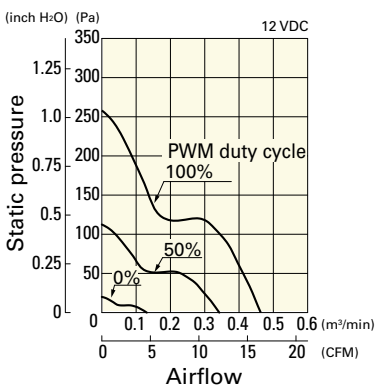


PWM duty - Speed characteristics example

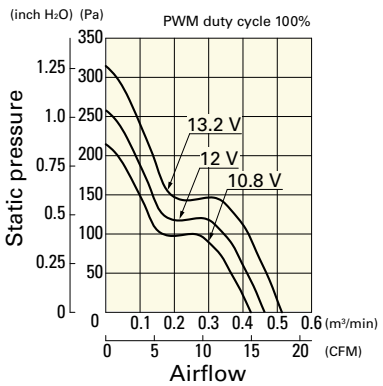


9GA0412P3M01 With pulse sensor with PWM control function

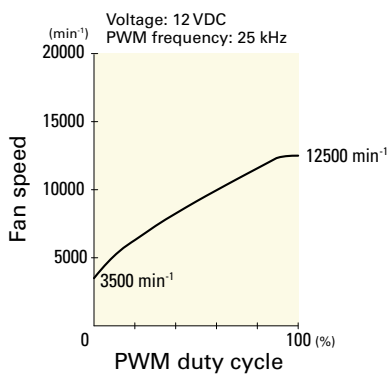
PWM duty cycle



Operating voltage range



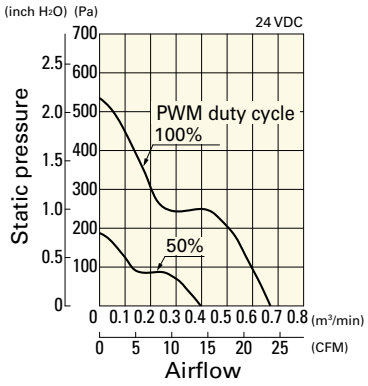
PWM duty - Speed characteristics example



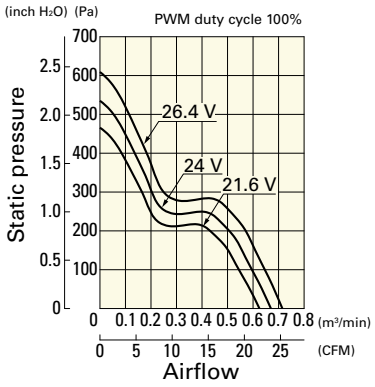
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9GA0424P3J001 With pulse sensor with PWM control function

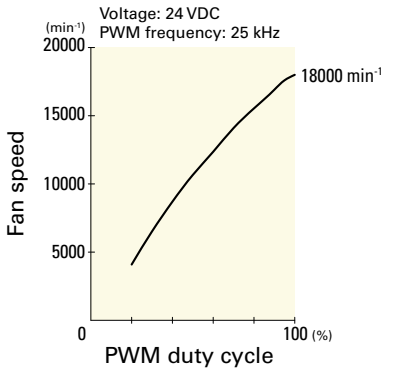
PWM duty cycle



Operating voltage range

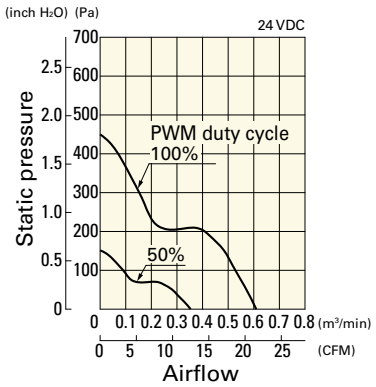


PWM duty - Speed characteristics example

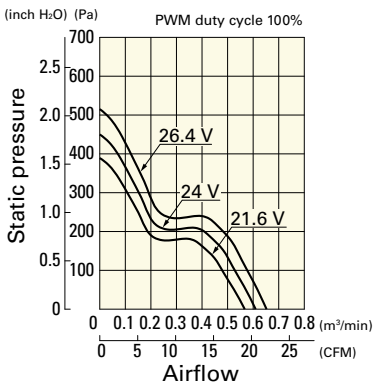


9GA0424P3G001 With pulse sensor with PWM control function

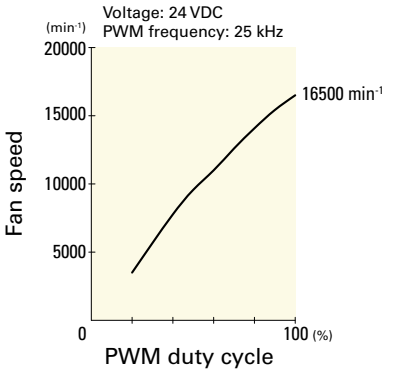
PWM duty cycle



Operating voltage range

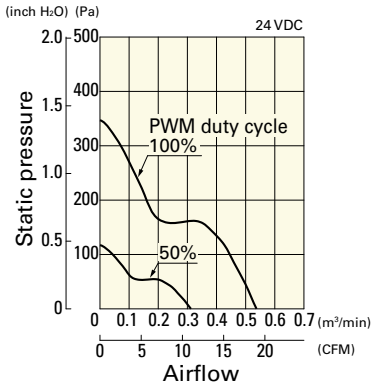


PWM duty - Speed characteristics example

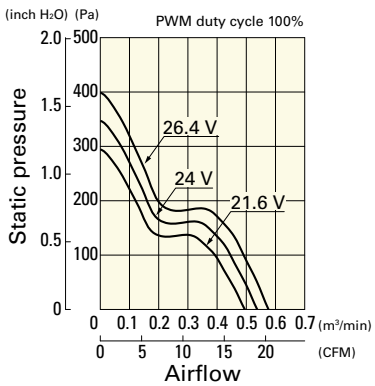


9GA0424P3H001 With pulse sensor with PWM control function

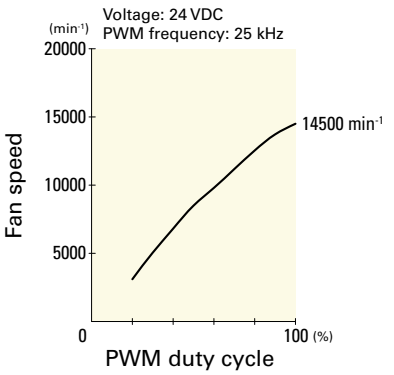
PWM duty cycle



Operating voltage range

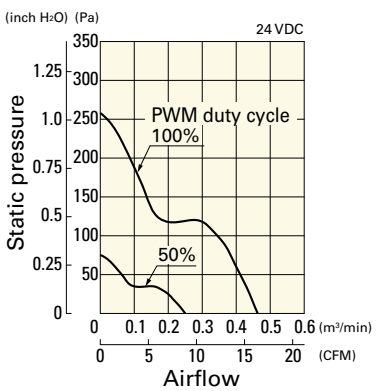


PWM duty - Speed characteristics example

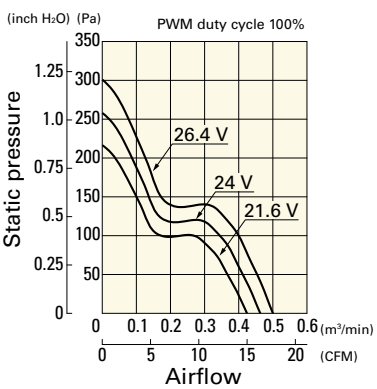


9GA0424P3M001 With pulse sensor with PWM control function

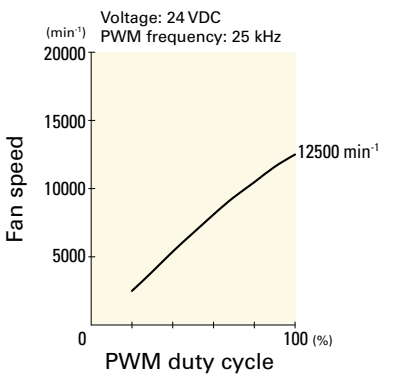
PWM duty cycle



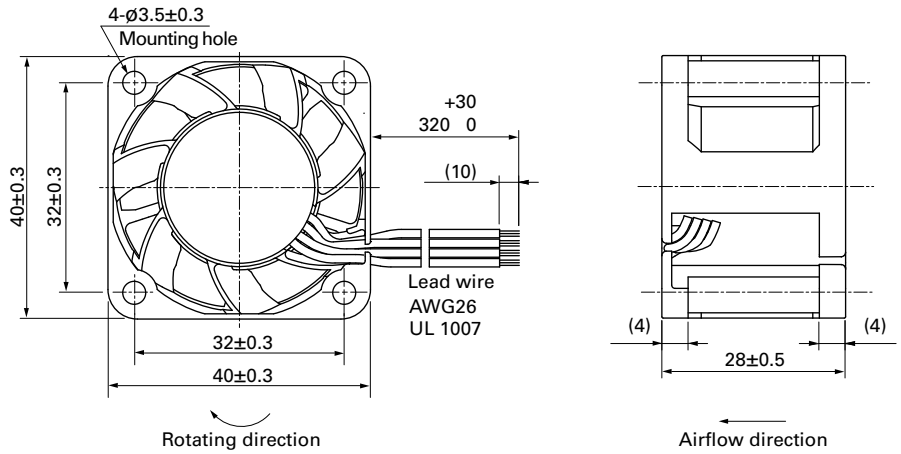
Operating voltage range



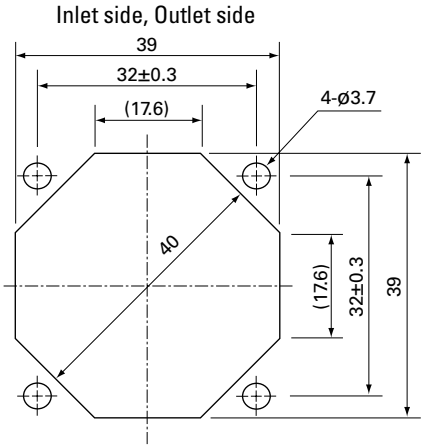
PWM duty - Speed characteristics example



Dimensions (unit: mm) (With ribs)



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



Options

Finger guards page: p. 532

Model no.: 109-059, 109-059H