

40x40x28 mm

San Ace 40L 9LG type



General Specifications

- Material Frame: Aluminum (Black coating), 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
- Mass 60 g

Specifications

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

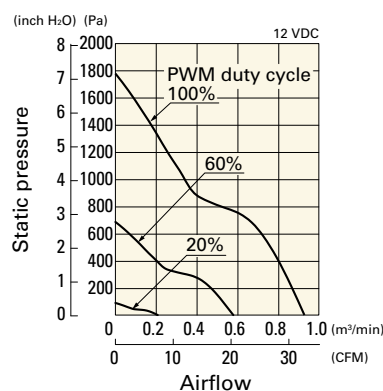
Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9LG0412P3G001	12	10.2 to 13.8	100	1.9	22.8	33500	0.93 32.9	1780 7.15	68	-20 to +70	80000/60°C (115000/40°C)
			20	0.09	1.08	7500	0.2 7.07	89 0.36	33		
9LG0412P3S001			100	1.23	14.8	28000	0.77 27.2	1290 5.18	65		100000/60°C (135000/40°C)
			20	0.07	0.84	5700	0.15 5.3	53 0.21	28		
9LG0412P3H001			100	0.69	8.28	22500	0.62 21.9	830 3.33	62		80000/60°C (115000/40°C)
			20	0.07	0.84	5700	0.15 5.3	53 0.21	28		
9LG0424P3G001	24	21.6 to 26.4	100	0.95	22.8	33500	0.93 32.9	1780 7.15	68		80000/60°C (115000/40°C)
			20	0.07	1.68	6800	0.18 6.36	73 0.29	32		
9LG0424P3S001			100	0.61	14.6	28000	0.77 27.2	1290 5.18	65		100000/60°C (135000/40°C)
			20	0.05	1.2	5000	0.13 4.59	41 0.16	27		
9LG0424P3H001			100	0.34	8.16	22500	0.62 21.9	830 3.33	62		100000/60°C (135000/40°C)
			20	0.05	1.2	5000	0.13 4.59	41 0.16	27		

* 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.

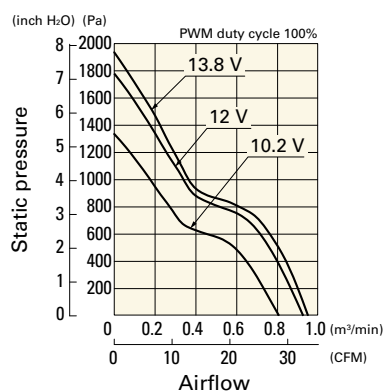
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0412P3G001 With pulse sensor with PWM control

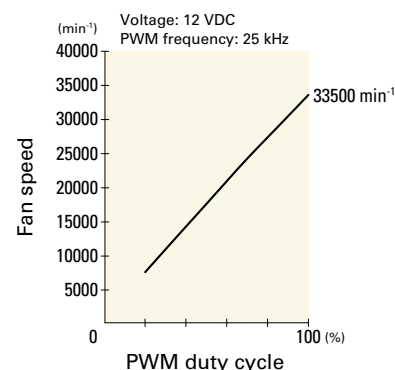
PWM duty cycle



Operating voltage range



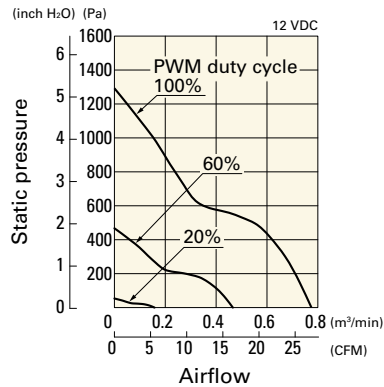
PWM duty - Speed characteristics example



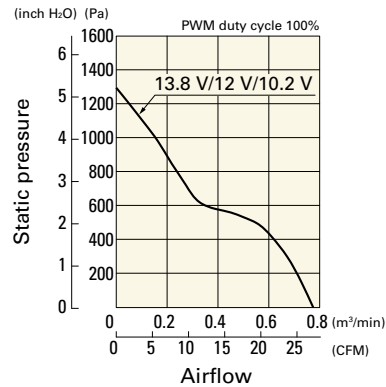
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9LG0412P3S001 With pulse sensor with PWM control

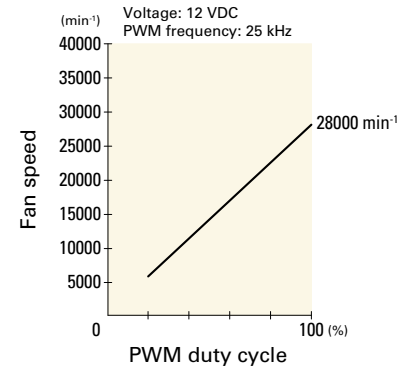
PWM duty cycle



Operating voltage range

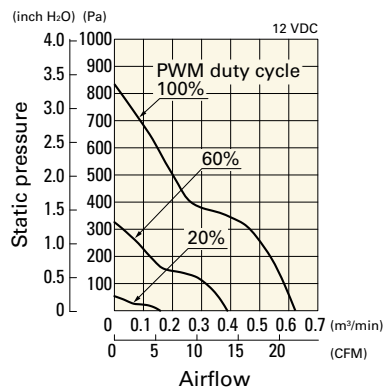


PWM duty - Speed characteristics example

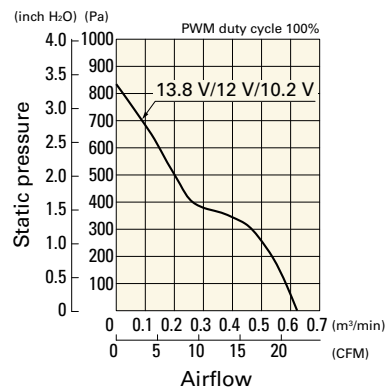


9LG0412P3H001 With pulse sensor with PWM control

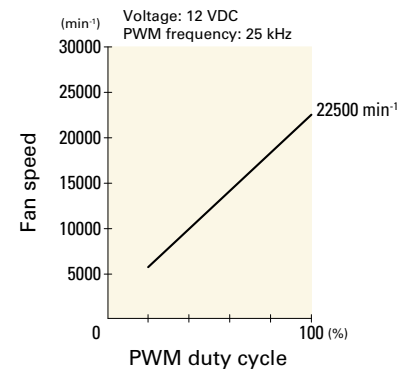
PWM duty cycle



Operating voltage range

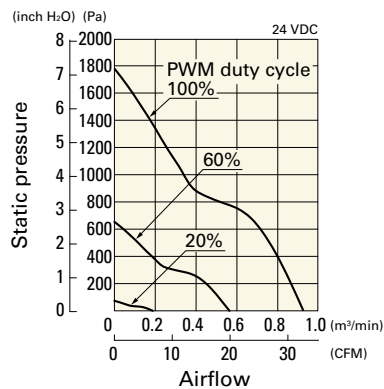


PWM duty - Speed characteristics example

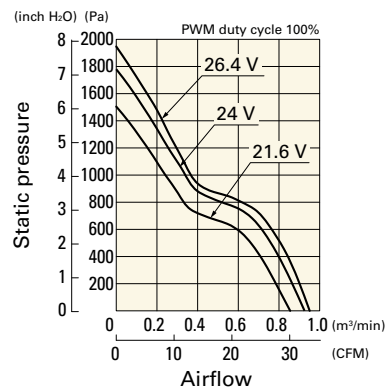


9LG0424P3G001 With pulse sensor with PWM control

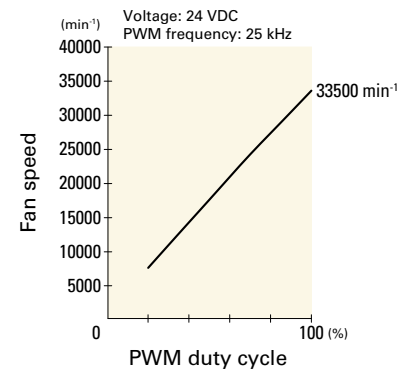
PWM duty cycle



Operating voltage range

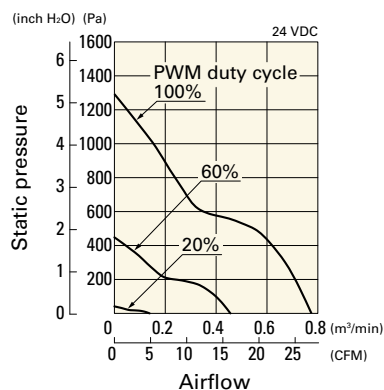


PWM duty - Speed characteristics example

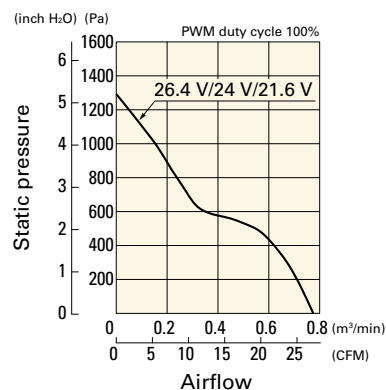


9LG0424P3S001 With pulse sensor with PWM control

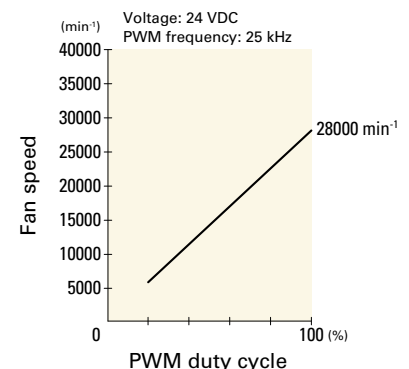
PWM duty cycle



Operating voltage range



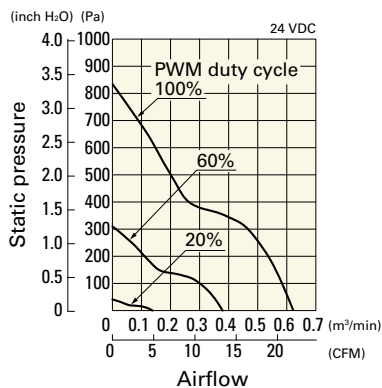
PWM duty - Speed characteristics example



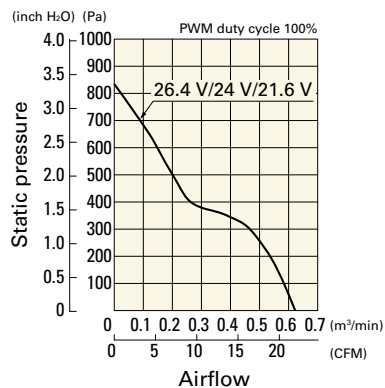
DC
Long Life Fan 40 mm sq.

Long Life Fan 40 mm sq.

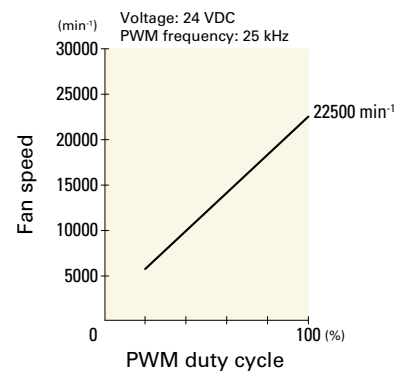
PWM duty cycle



Operating voltage range

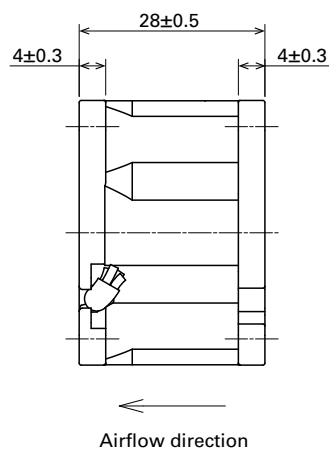


PWM duty - Speed characteristics example



Technical drawing of the fan unit showing dimensions and specifications:

- Mounting hole: $8-\varnothing 3.5 \pm 0.3$
- Overall width: 40 ± 0.3
- Overall height: 40 ± 0.3
- Internal width: 32 ± 0.3
- Internal height: 32 ± 0.3
- Lead wire: AWG 26, UL 1430
- Lead wire length: 320^{+30}_0
- Lead wire diameter: (10)
- Rotating direction: Indicated by a curved arrow.



Inlet side, Outlet side

39

32 ± 0.3

(17.6)

4-Ø3.7

39

(17.6)

32 ± 0.3

40

Finger guards

page: p. 598

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