

New Product Introduction  
June 2, 2023

# San Ace 40

Long Life fan (9LG type)  
40 mm × 28mm



**SANYO DENKI**

SANYO DENKI AMERICA, INC.  
Cooling Systems Division  
[www.Sanyodenki.com/america](http://www.Sanyodenki.com/america)

# Products Highlights

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- Long Life Up to 11 years at 60°C, or 15 years at 40°C
- Highest Air Flow and Static Pressure in the industry
- Offers 3 Speed Models (G, S, H) Per 12 and 24 VDC
- Target applications: Servers, Communication Equipment, Telecom Power Supply, etc.

## Background:

The 40mm sq. × 28mm thick Long-Life fan is ideal for high-end servers, communication equipment, and other demanding applications that require superior cooling performance and a compact form factor to meet the increasing requirements.

This fan features an extended lifespan, reducing the need for frequent replacements and ensuring uninterrupted operation.

# High Performance & Long Life

San Ace 40/9LG type

## □ Specifications

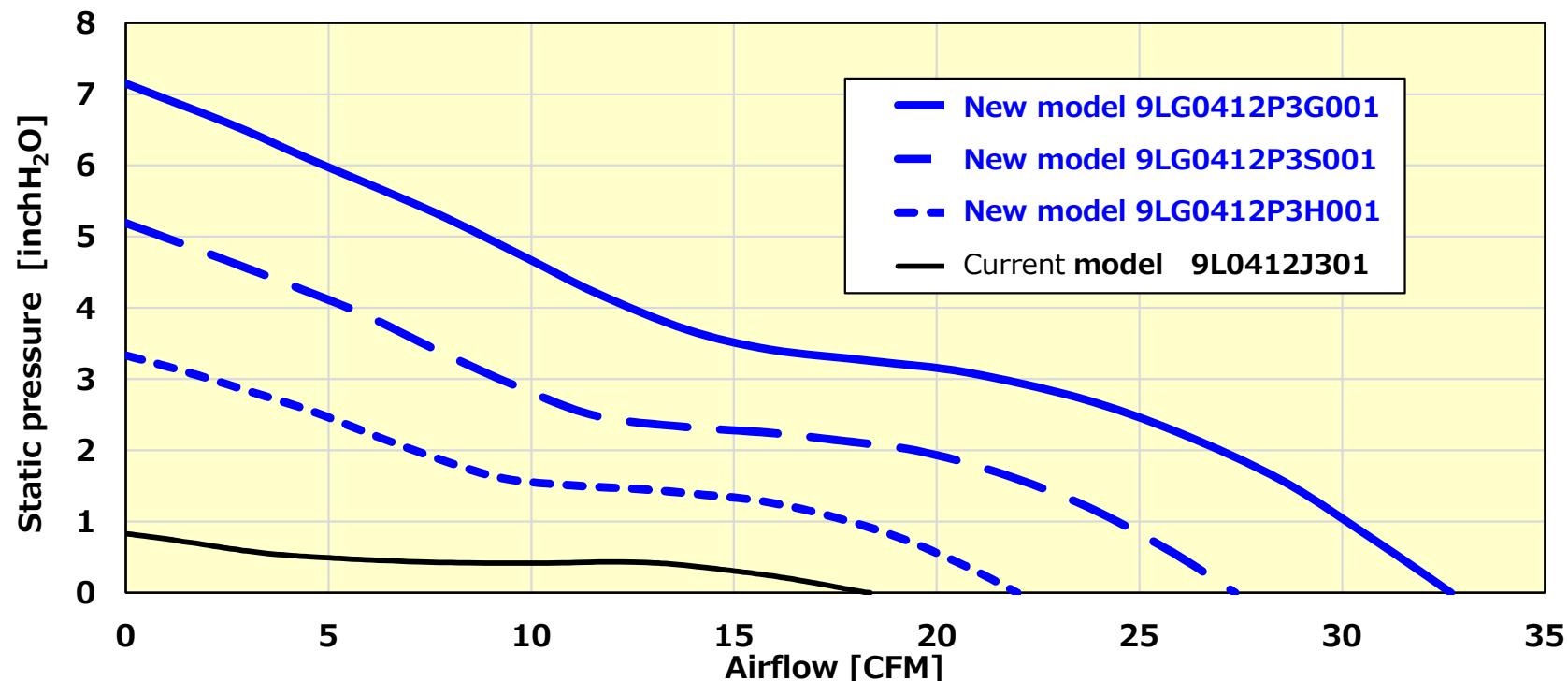
\*Rated speed, SPL, Rated input are values at rated voltage in free air.

\*SPL is A-weighted sound pressure level that measured at 1 meter away from air intake side of fan.

Model no.	Rated speed [min <sup>-1</sup> ]	Rated input [W]	Max. airflow [CFM]	Max. static pressure [inchH <sub>2</sub> O]	SPL [dB(A)]	Expected life [h@60°C]
New model 9LG0412P3G001	33,500	22.8	32.9	7.15	68	80,000
New model 9LG0412P3S001	28,000	14.8	27.2	5.18	65	100,000
New model 9LG0412P3H001	22,500	8.28	21.9	3.33	62	100,000
Current model 9L0412J301	11,700	3.72	18.4	0.827	48	100,000

1.8 times

8.6 times



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\*Rated speed, SPL, Rated input are values at rated voltage in free air.

\*SPL is A-weighted sound pressure level that measured  
at 1 meter away from air intake side of fan.

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 <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]
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		100000/60°C (135000/40°C)
9LG0412P3S001	12	10.2 to 13.8	100	1.23	14.8	28000	0.77 27.2	1290 5.18	65	-20 to +70	80000/60°C (115000/40°C)
			20	0.07	0.84	5700	0.15 5.3	53 0.21	28		100000/60°C (135000/40°C)
9LG0412P3H001	12	10.2 to 13.8	100	0.69	8.28	22500	0.62 21.9	830 3.33	62	-20 to +70	80000/60°C (115000/40°C)
			20	0.07	0.84	5700	0.15 5.3	53 0.21	28		100000/60°C (135000/40°C)
9LG0424P3G001	24	21.6 to 26.4	100	0.95	22.8	33500	0.93 32.9	1780 7.15	68	-20 to +70	80000/60°C (115000/40°C)
			20	0.07	1.68	6800	0.18 6.36	73 0.29	32		100000/60°C (135000/40°C)
9LG0424P3S001	24	21.6 to 26.4	100	0.61	14.6	28000	0.77 27.2	1290 5.18	65	-20 to +70	80000/60°C (115000/40°C)
			20	0.05	1.2	5000	0.13 4.59	41 0.16	27		100000/60°C (135000/40°C)
9LG0424P3H001	24	21.6 to 26.4	100	0.34	8.16	22500	0.62 21.9	830 3.33	62	-20 to +70	80000/60°C (115000/40°C)
			20	0.05	1.2	5000	0.13 4.59	41 0.16	27		100000/60°C (135000/40°C)

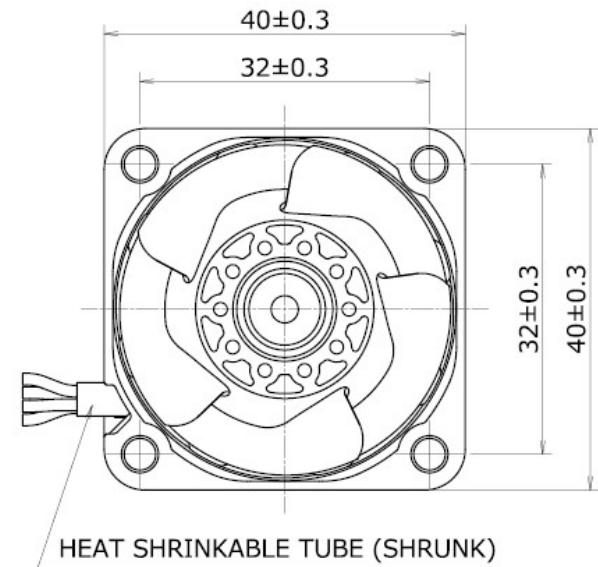
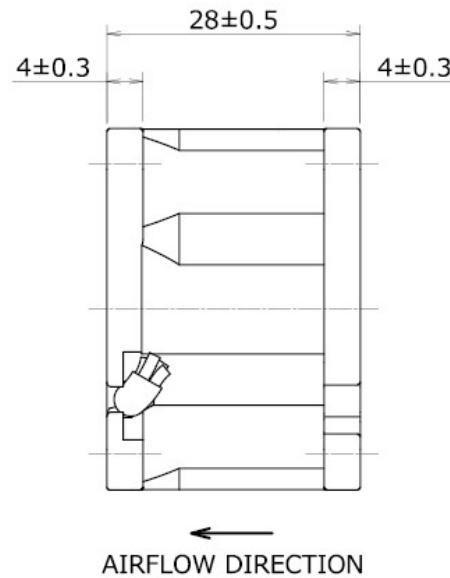
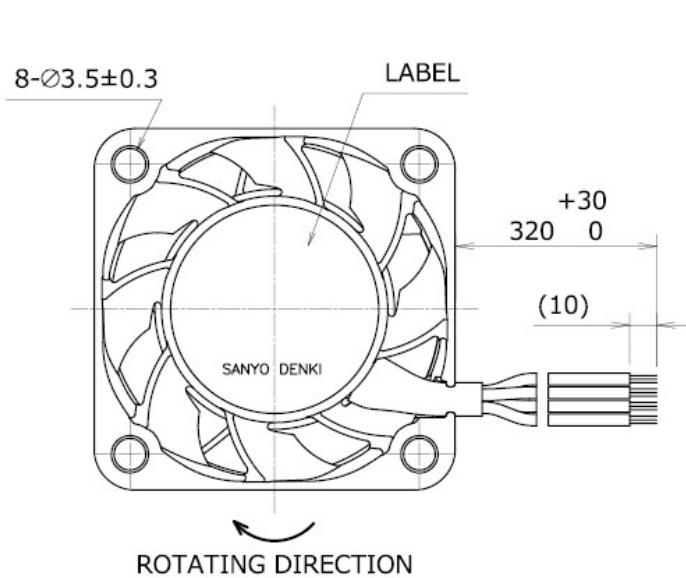
\* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

## □ Sensor

Lock sensor and without sensor are available as options.

# Dimensions

San Ace 40/ 9LG type



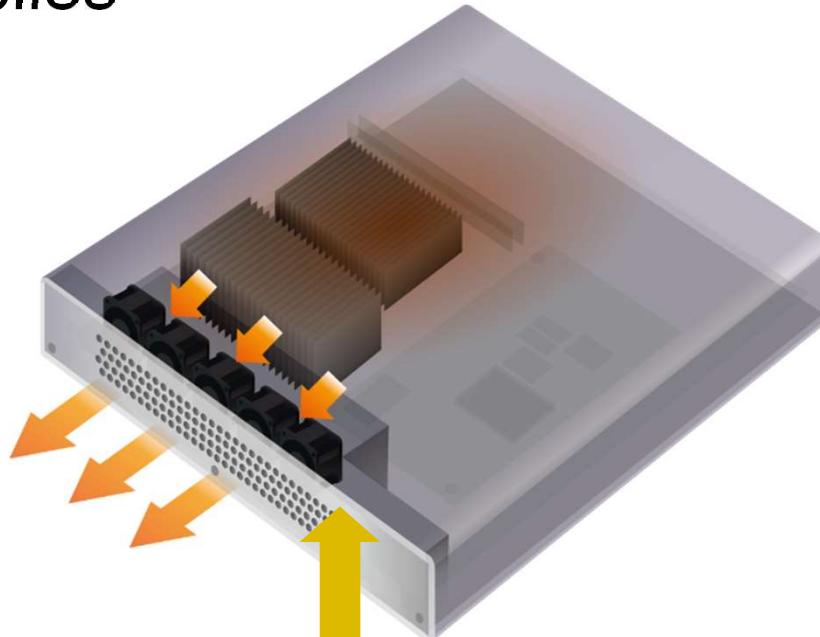
- MTBF = 3 million hours
- FIT rate = 330

# Target Applications

San Ace 40/ 9LG type

Equipment used near by people that require both cooling performance and noise reduction

- Servers
- Communication Equipment
- Telecom Power Supplies

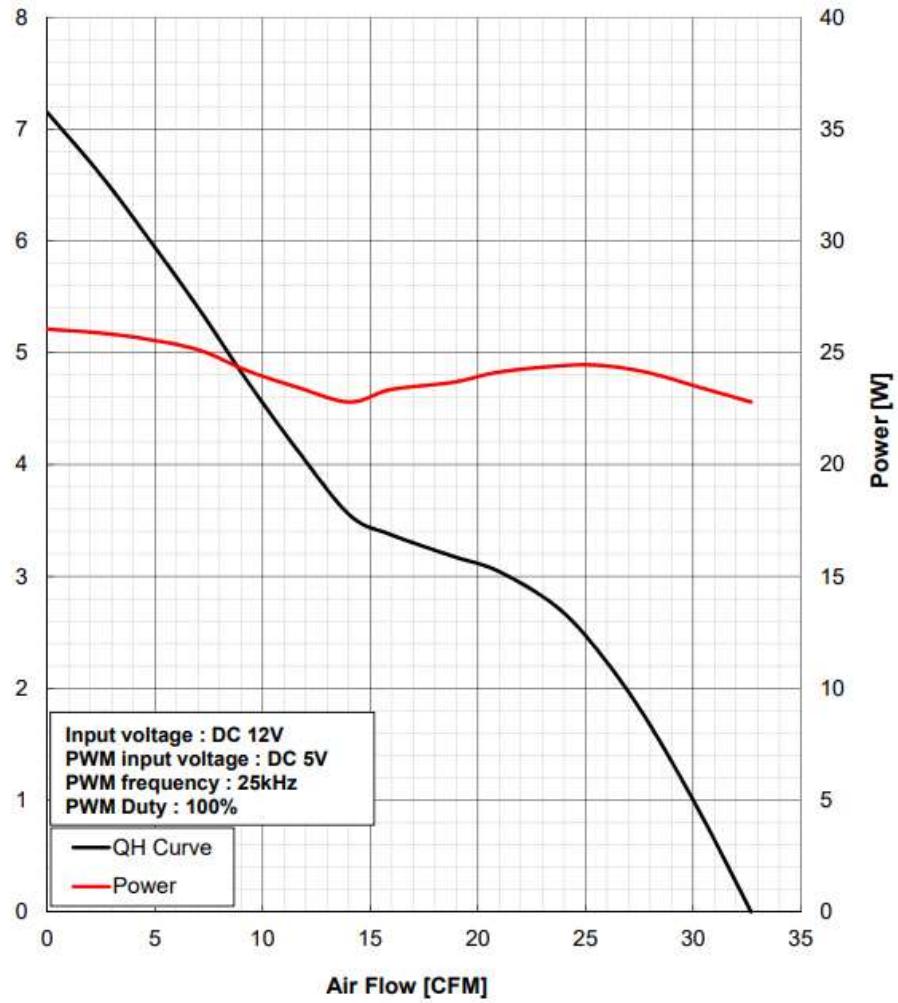


# Performance vs Power

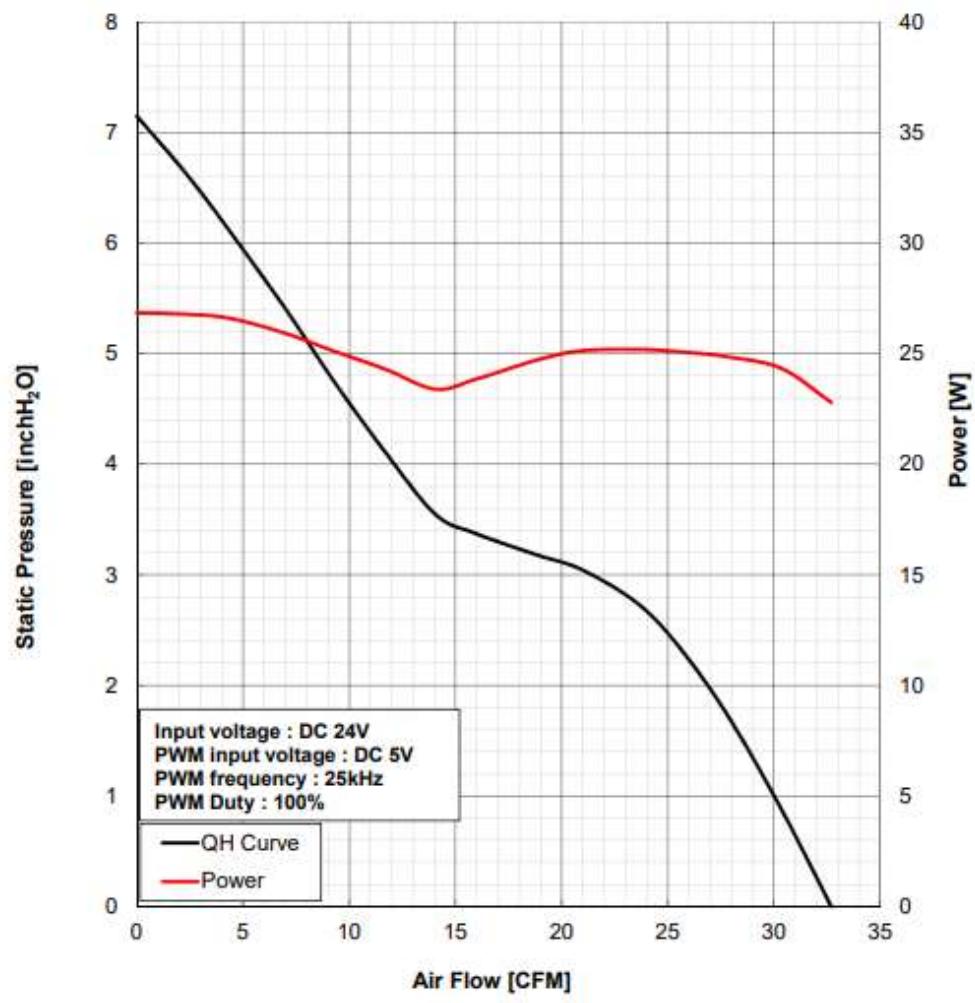
San Ace 40/ 9LG type

MODEL : 9LG0412P3G001

Static Pressure [inchH<sub>2</sub>O]



MODEL : 9LG0424P3G001

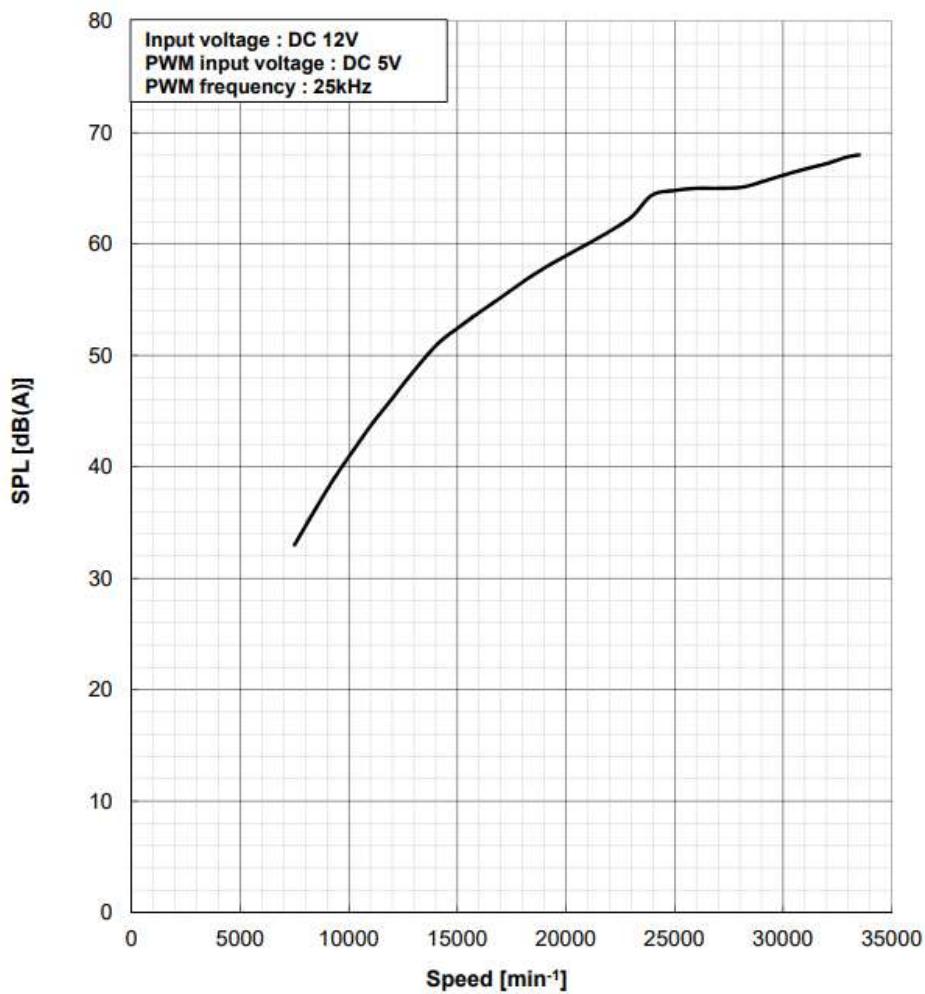


# SPEED vs Sound Pressure Level (dB(A))

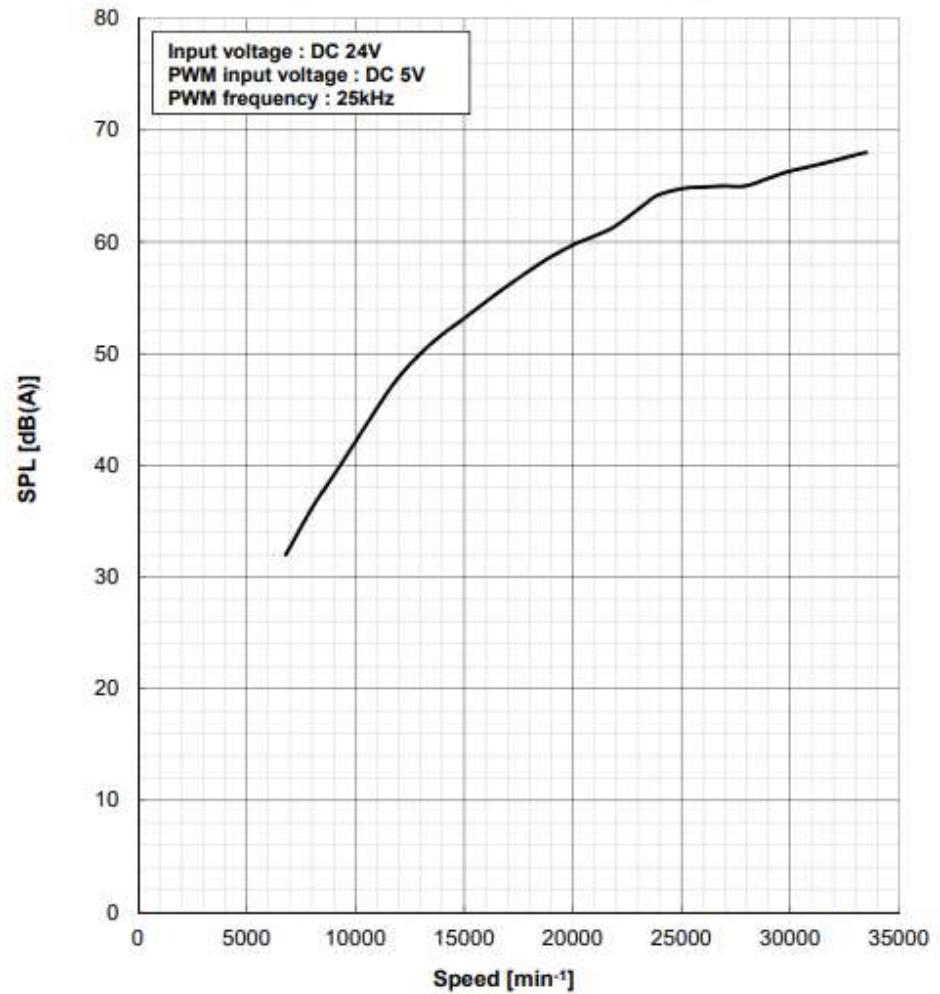
San Ace 40/ 9LG type

Measured at 1m from the air inlet (Measurement value)

**MODEL : 9LG0412P3G001**



**MODEL : 9LG0424P3G001**



- Customizations available

- Harness assembly: Sanyo Denki can recommend connectors and terminals.
- Additional conformal coating available
- Others

- PWM Control Models available

- PWM control function enables to control fan speed depending on the situation and to reduce the power consumption and noise.

- 12 and 24 VDC available

- cUL and TUV approved