



San Ace 40

High Static Pressure Fan (9HVA Type)

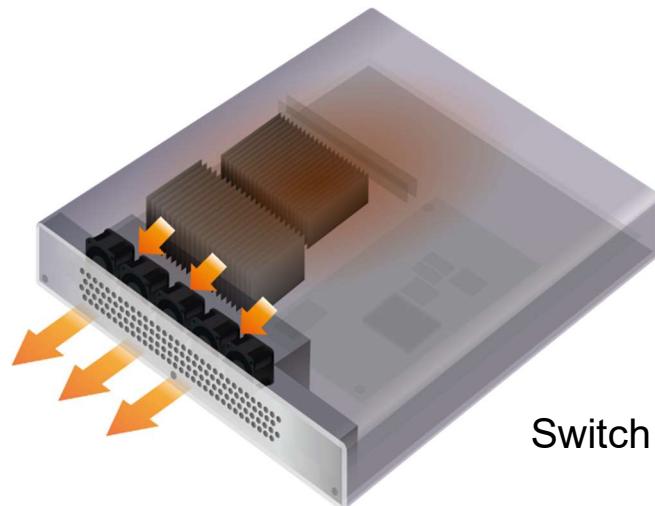
40 mm x 28 mm

July 9th, 2020

Cooling Systems Division
Sanyo Denki America, Inc.

Products Highlights

- High airflow and static pressure
- Energy-saving
- Space-saving
- Target applications: 1U servers, switching power supplies, and communications equipment



High Airflow and Static Pressure And Energy-Saving

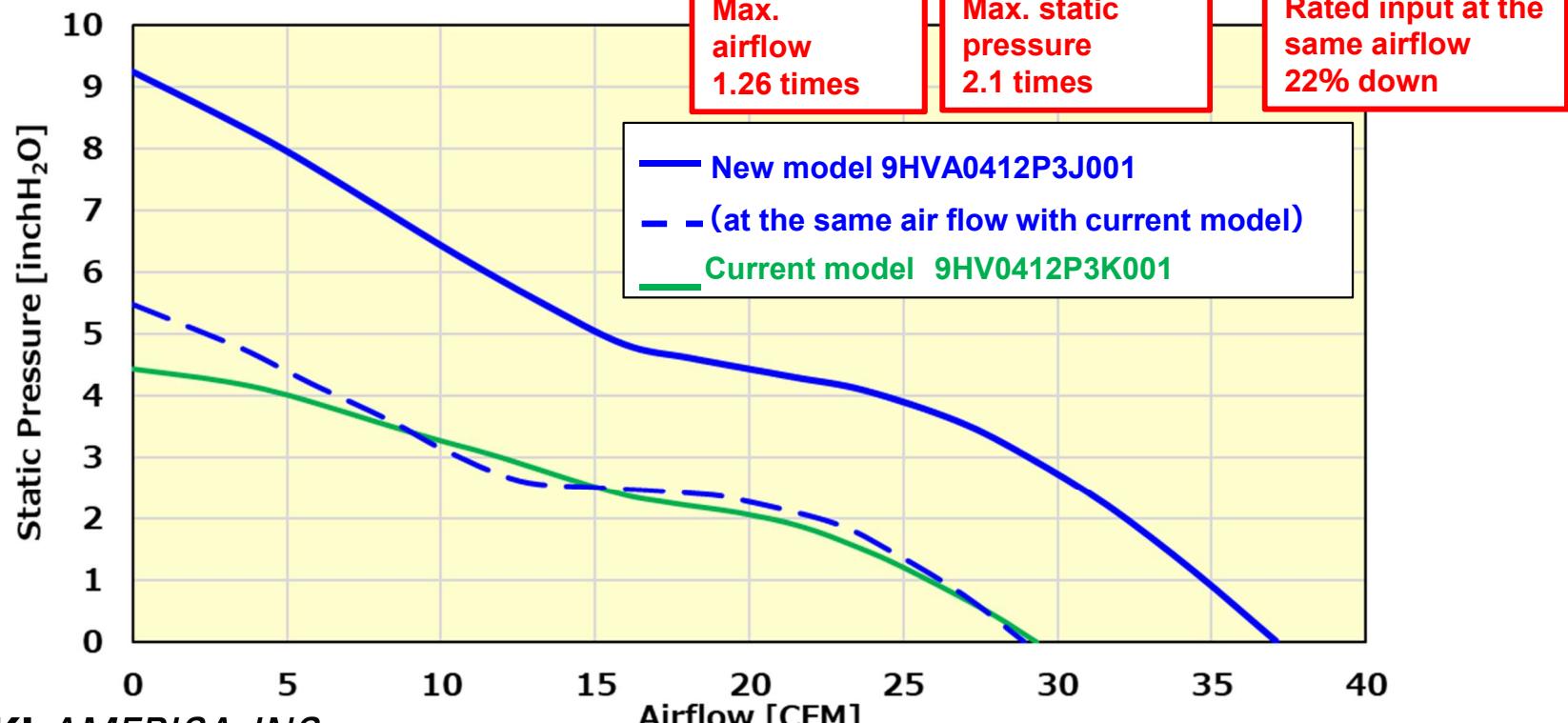
□ Specifications

*Rated speed and Sound pressure level are values at rated voltage in free air.

*Sound pressure level is measured at 1m from the inlet.

	Rated voltage [V]	Rated speed [min ⁻¹]	Max. airflow [CFM]	Max. static pressure [inchH ₂ O]	SPL [dB(A)]	Rated input [W]
New model 9HVA0412P3J001	12	38,000	37.1	9.24	71	31.2
at the same air flow with current model	-	2,9000	29.0	5.46	(65)	13.9
Current model 9HV0412P3K001	12	25,000	29.3	4.42	65	17.8

□ Airflow – Static Pressure Characteristics



Space-Saving

This fan delivers higher cooling performance than our 40 × 40 × 56 mm Counter Rotating Fan. The smaller fan size provides enhanced design flexibility.

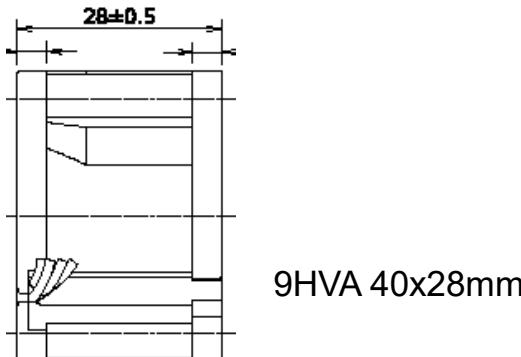
Specifications

*Rated speed and Sound pressure level are values at rated voltage in free air.

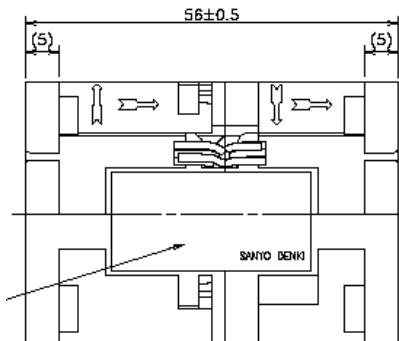
*Sound pressure level is measured at 1m from the inlet.

	Rated voltage [V]	Rated speed [min ⁻¹]	Max. airflow [CFM]	Max. static pressure [inchH ₂ O]	SPL [dB(A)]	Rated input [W]
New model 9HVA0412P3J001 (40x28mm)	12	38,000	37.1	9.24	71	31.2
current model 9CRV0412P5J201 (40x56mm)	12	22,500 / 20,000	31.8	4.22	68	21.6

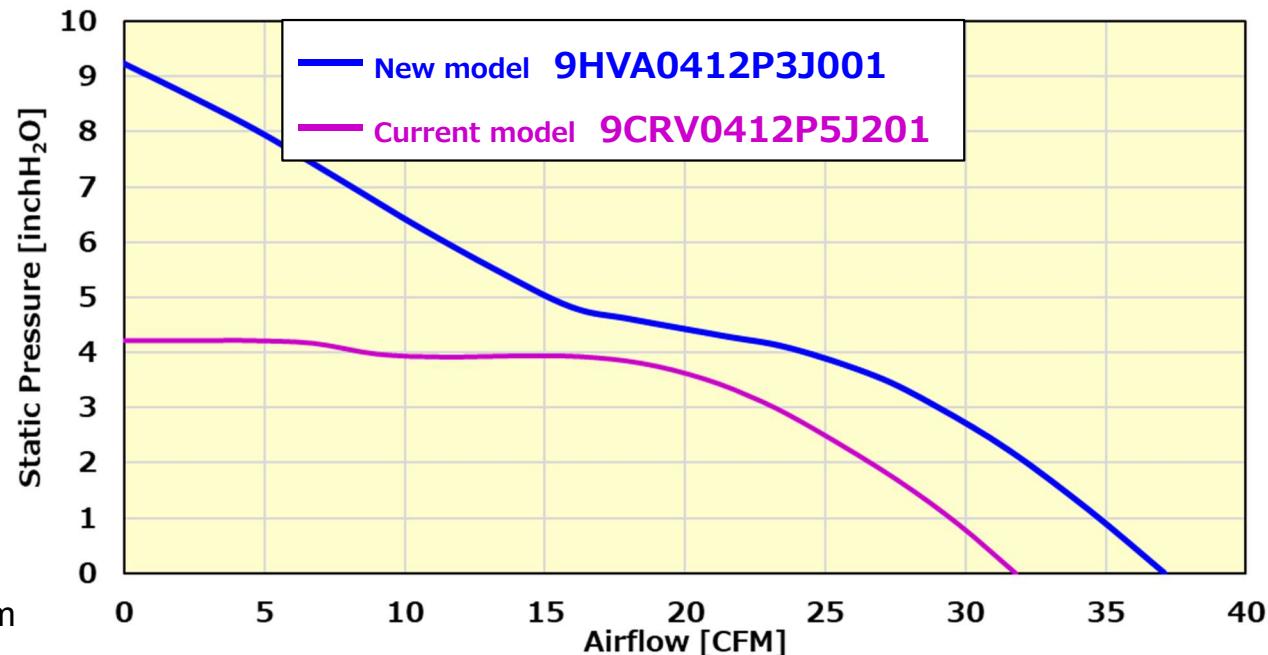
Airflow – Static Pressure Characteristics



9HVA 40x28mm

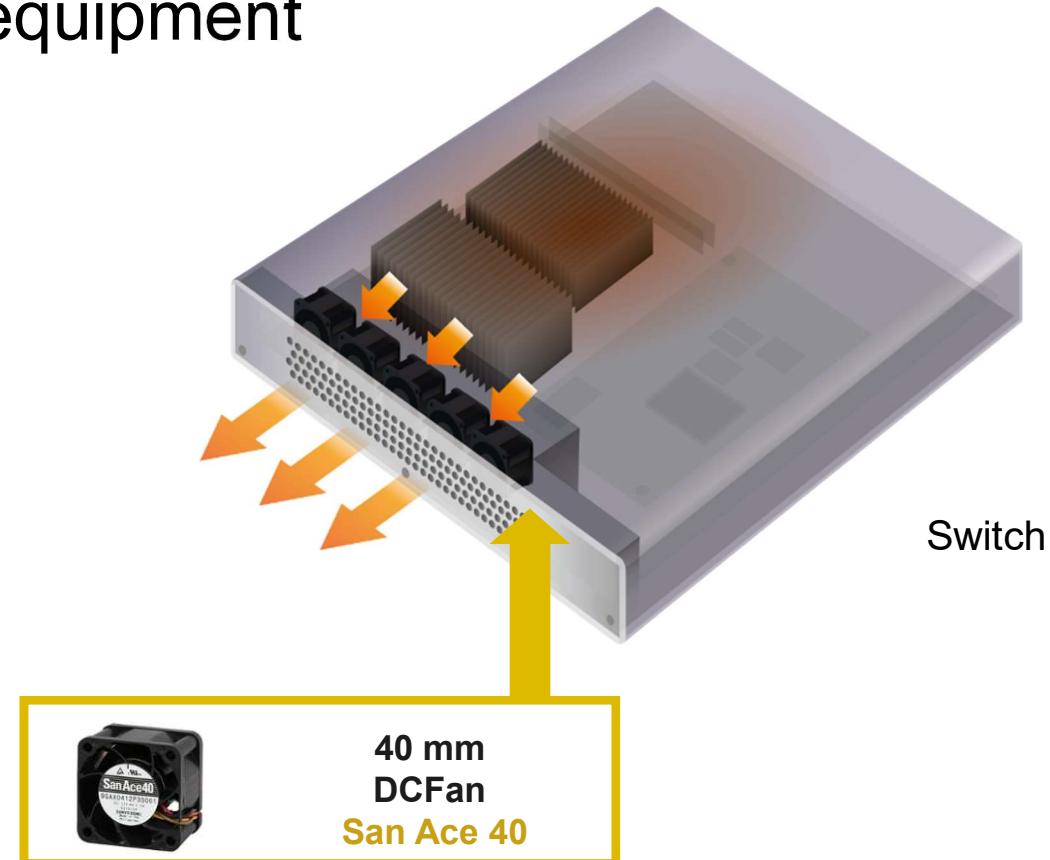


9CRV 40x56mm



Target Applications

- 1U Servers
- Switching power supplies
- Communication equipment



Specifications

□ Specifications

*Rated speed and Sound pressure level are values at rated voltage in free air.

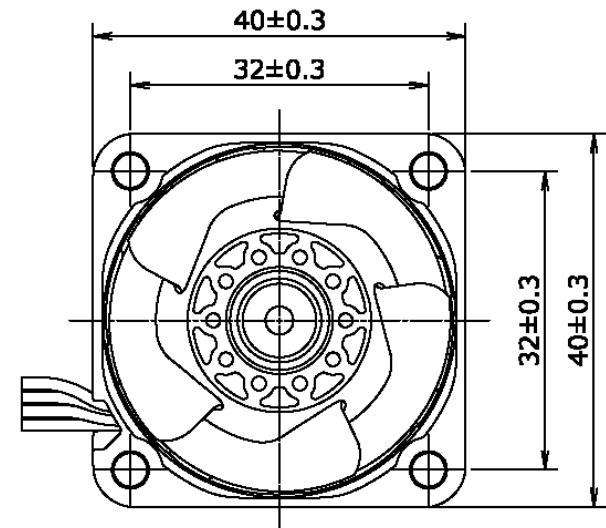
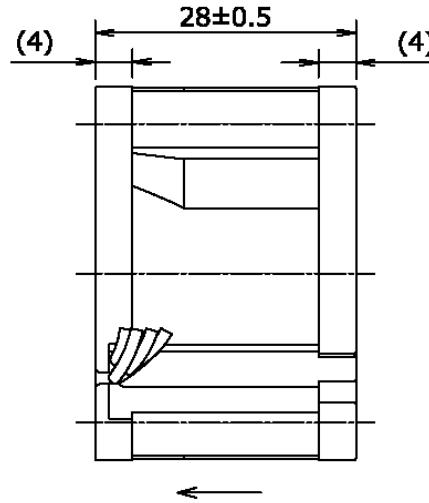
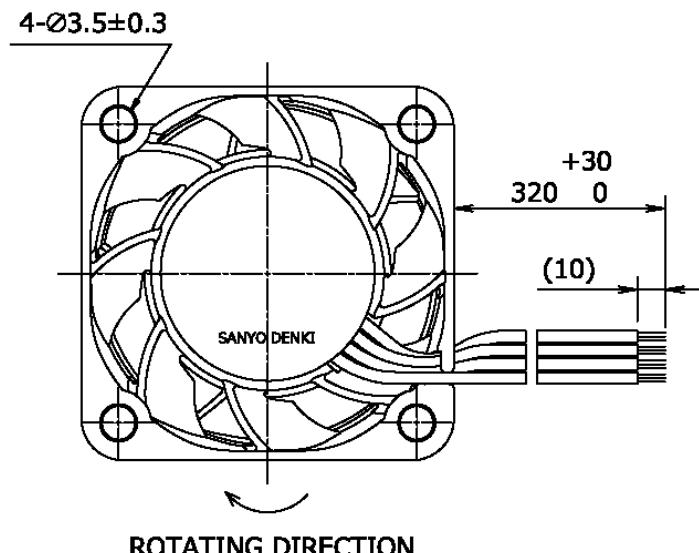
*Sound pressure level is measured at 1m from the inlet.

Rated voltage [V]	Operating voltage range [V]	PWM duty cycle [%]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m ³ /min]	Max. static pressure [CFM]	Sound pressure level [Pa]	Operating temperature range [°C]	Expected life [h]
12	10.2~13.8	100	31.2	38,000	1.05	37.1	2,300	9.24	71
		20	1.4	8,000	0.22	7.8	101	0.41	34

□ Sensor

Pulse sensor is standard, Lock sensor and sensor less are available as options.

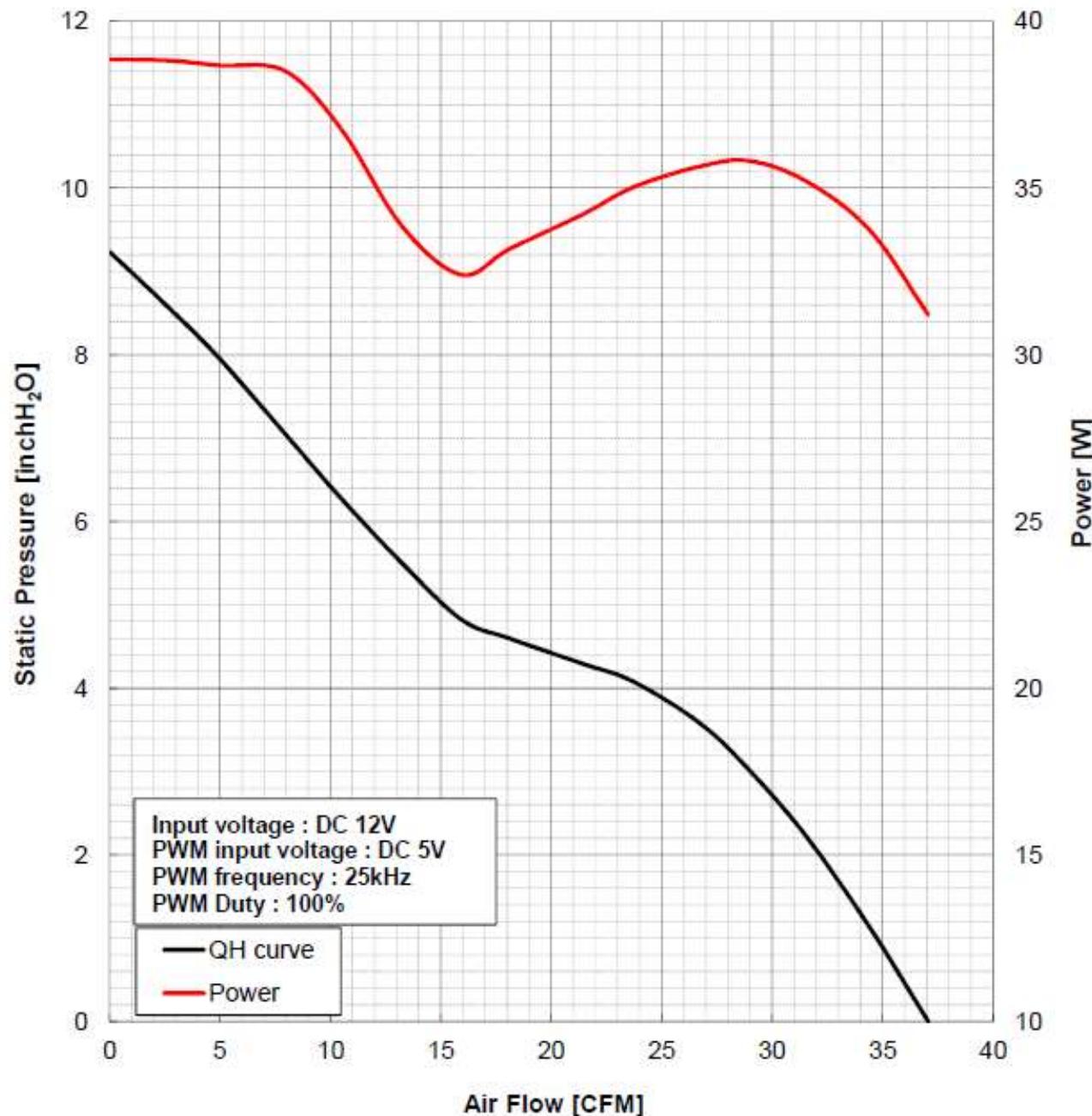
□ Dimensions



MTBF = 3 million hours
 FIT rate = 330

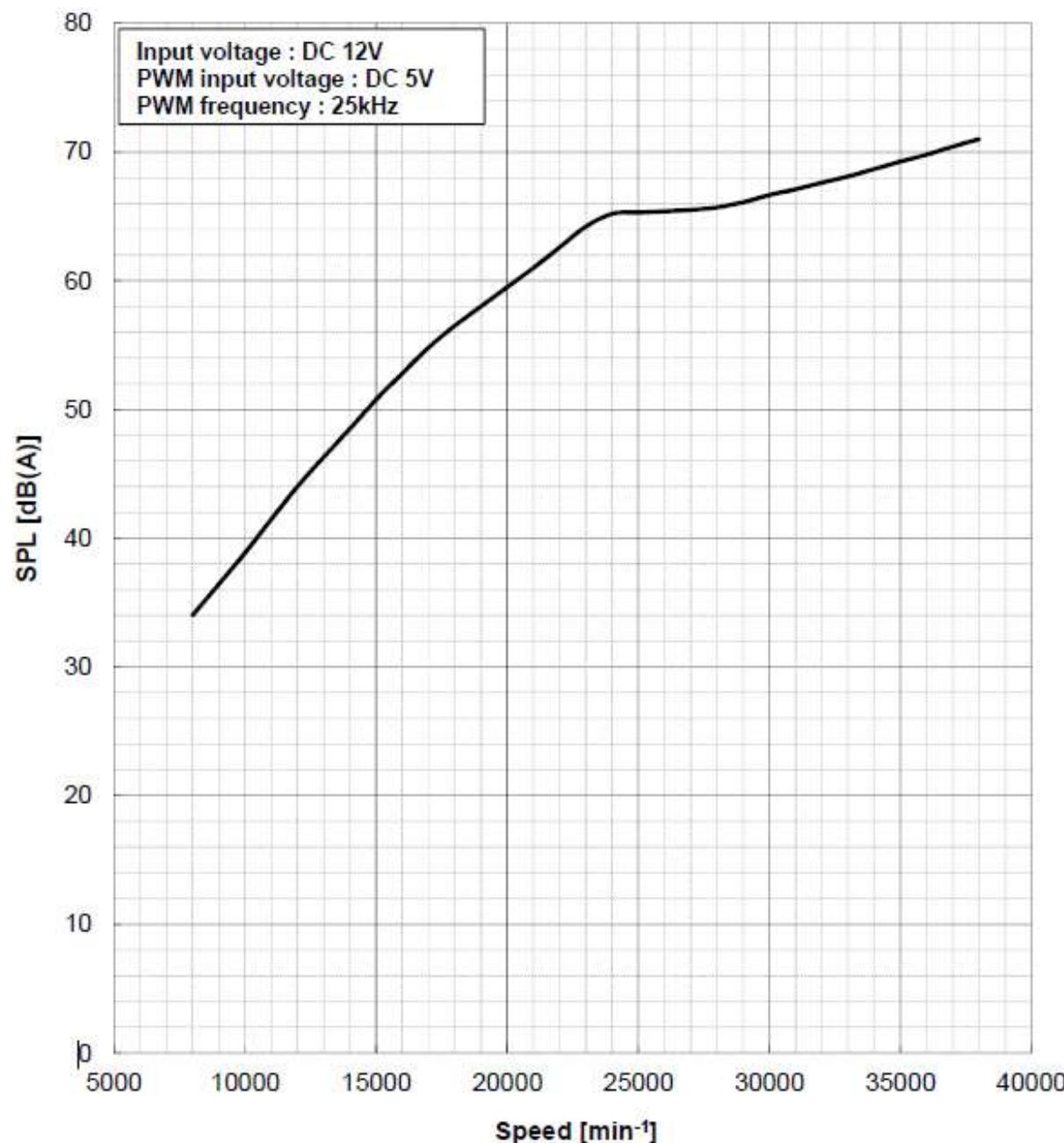
Performance vs Power

MODEL : 9HVA0412P3J001



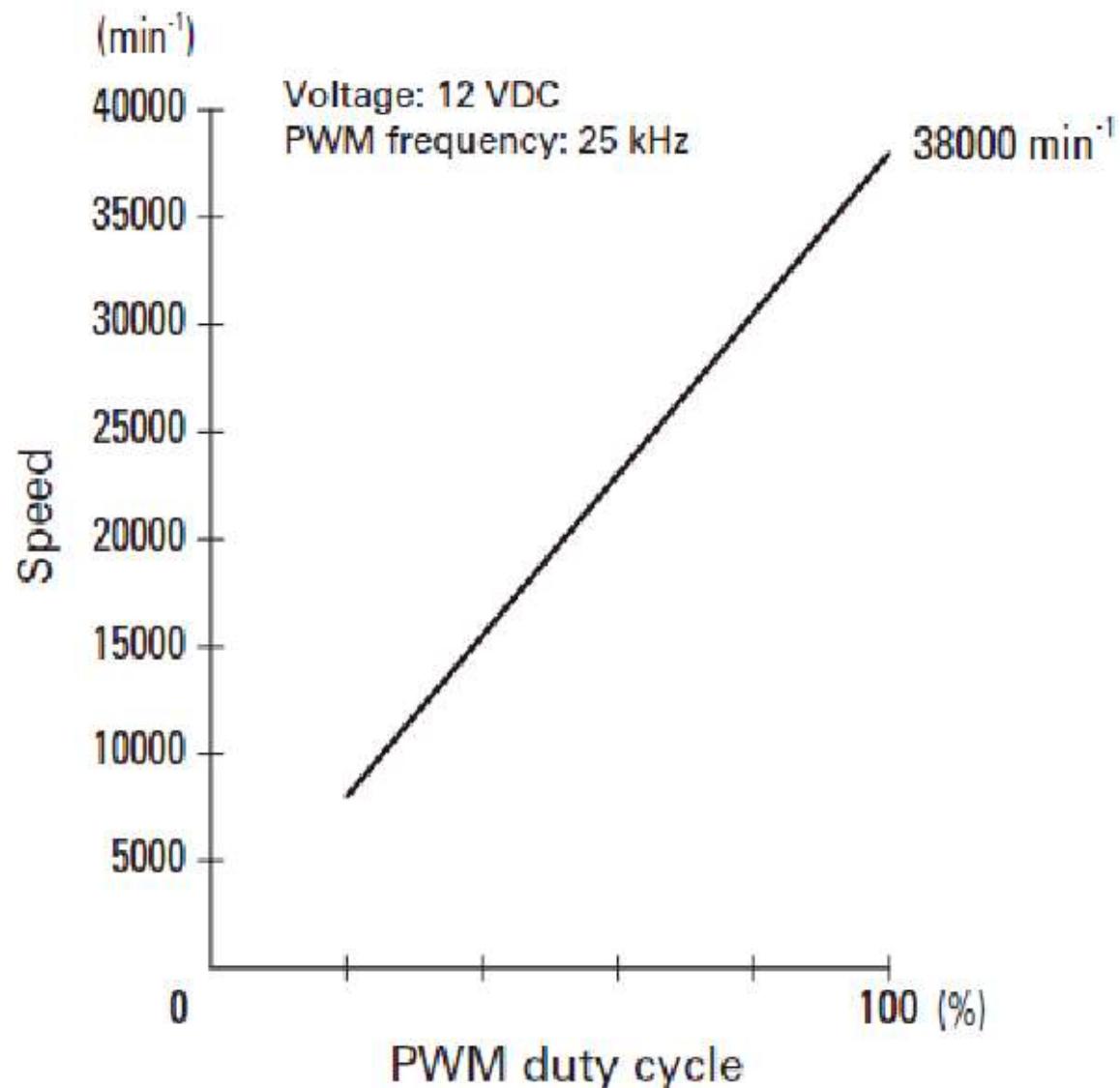
Sound Pressure vs RPM

MODEL : 9HVA0412P3J001



Speed vs PWM Duty

MODEL : 9HVA0412P3J001



Miscellaneous

- **Customizations available;**
- **Harness assembly and custom wiring**
Sanyo Denki can recommend connectors and terminals.
- **Conformal coating options**
- **Others**
- **Only 12VDC available**
- **cUL and TUV approved**