

San Ace 40

9RA type

DC Fan

Features

Low Noise

Compared with our current model,⁽¹⁾ noise level has been reduced by 2 dB(A).

Low Power Consumption

Compared with our current model,⁽²⁾ power consumption has been reduced by approximately 58%.⁽³⁾

(1) Current model: 40 × 40 × 15 mm *San Ace 40* 9P type DC Fan

(2) Current model: 40 × 40 × 15 mm *San Ace 40* 9P type DC Fan (Model no. 109P0412M701)

(3) Measured on model 9RA0412M7001.



40 × 40 × 15 mm

Specifications

The models listed below **have ribs and pulse sensors**.

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]
9RA0405H7001	5	4.5 to 5.5	0.13	0.65	7700	0.18 6.3	66 0.264	26	-20 to +70	60000/60°C (90000/40°C)
9RA0405M7001			0.10	0.50	6600	0.15 5.3	49 0.196	22		
9RA0412S7001	12	7 to 13.8	0.08	0.96	9600	0.23 8.1	102 0.408	32		
9RA0412H7001			0.06	0.72	7700	0.18 6.3	66 0.264	26		
9RA0412M7001			0.04	0.48	6600	0.15 5.3	49 0.196	22		
9RA0424S7001	24	20.4 to 27.6	0.04	0.96	9600	0.23 8.1	102 0.408	32		
9RA0424H7001			0.03	0.72	7700	0.18 6.3	66 0.264	26		

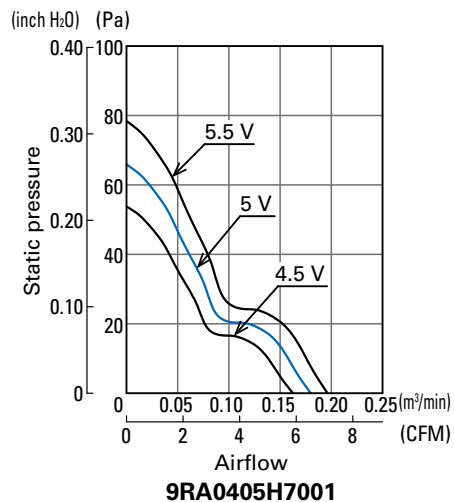
Models with the following sensor specifications are also available as options: **Without sensor** **Lock sensor**

Common Specifications

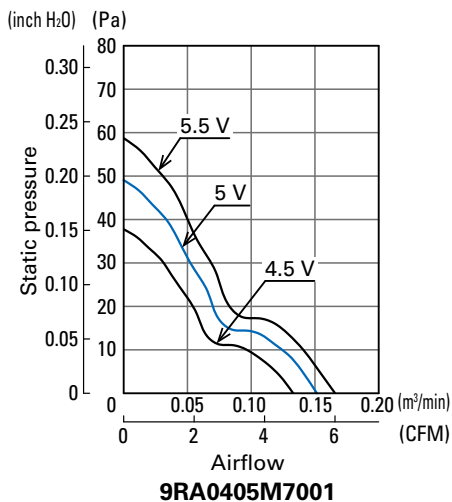
- ☐ Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- ☐ Expected life Refer to specifications
(L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)
Expected life at 40°C is for reference only.
- ☐ Motor protection function Locked rotor burnout protection, Reverse polarity protection
- ☐ 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.
- ☐ Operating temperature Refer to specifications (Non-condensing)
- ☐ Storage temperature -30 to +70°C (Non-condensing)
- ☐ Lead wire ⊕ Red ⊖ Black Sensor Yellow
- ☐ Mass 28 g

Airflow - Static Pressure Characteristics

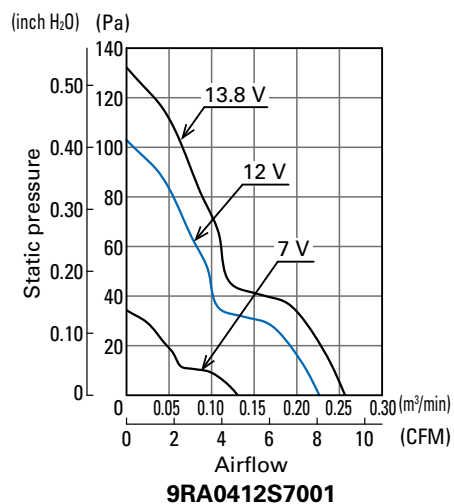
Operating voltage range



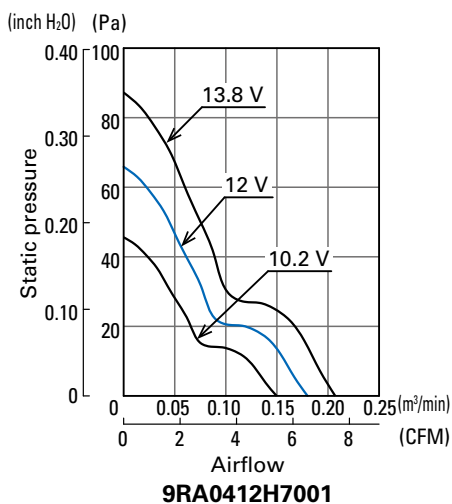
Operating voltage range



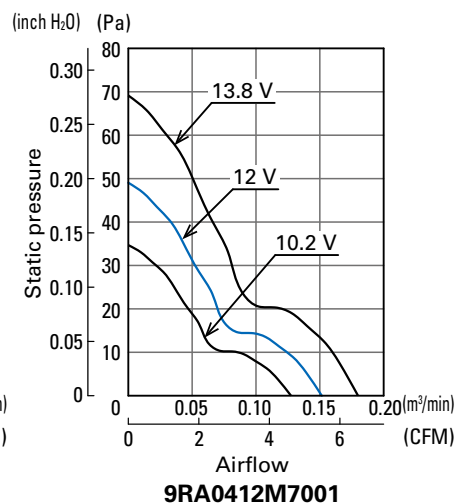
Operating voltage range



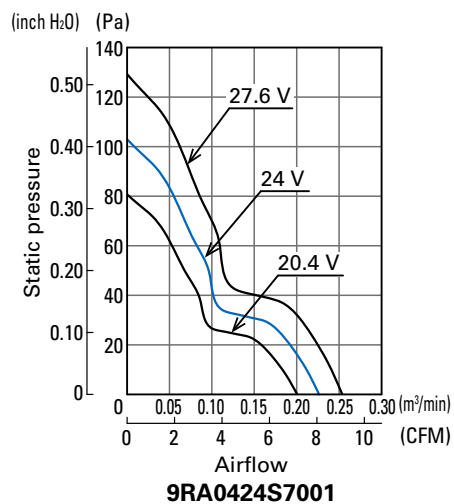
Operating voltage range



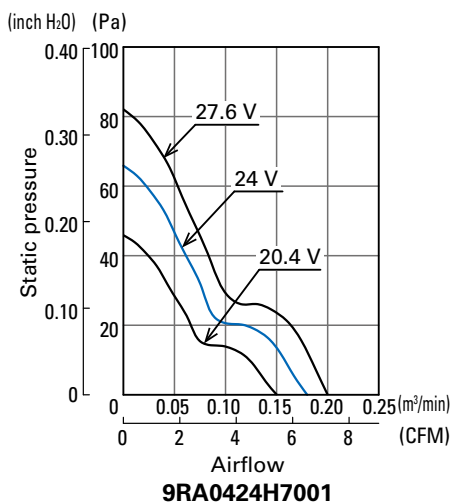
Operating voltage range



Operating voltage range

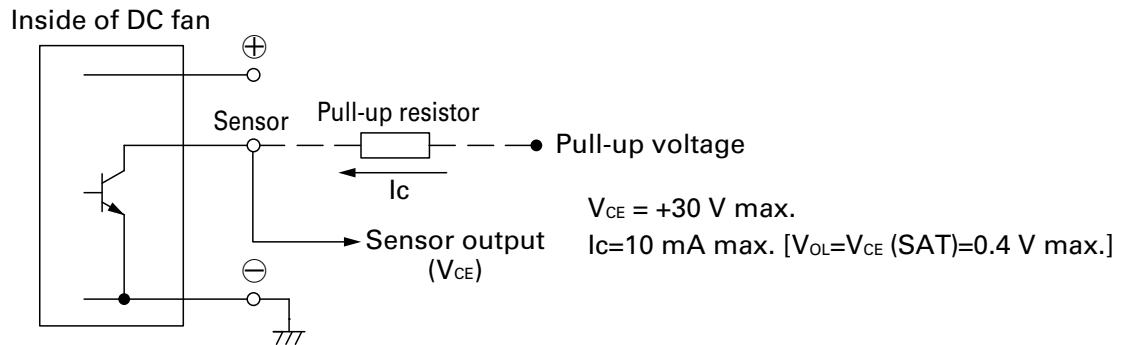


Operating voltage range



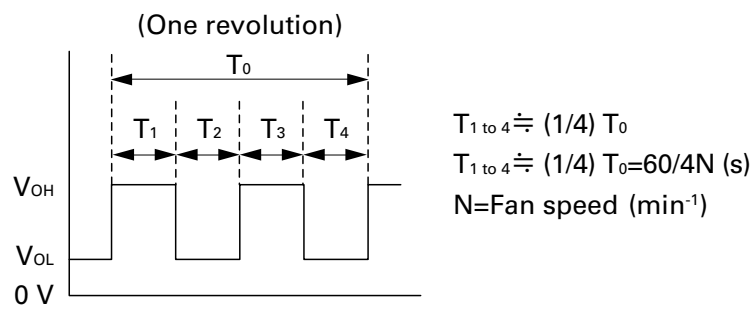
Specifications for Pulse Sensors

Output circuit: Open collector

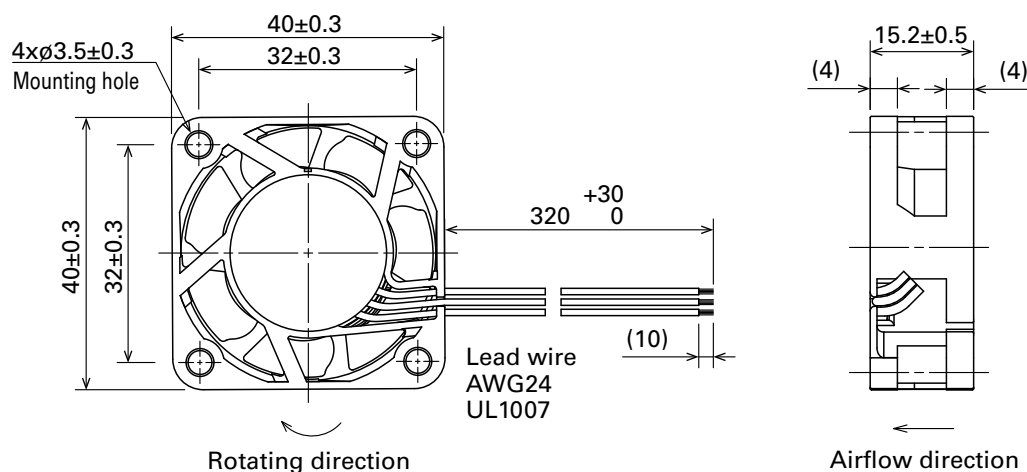


Output waveform (Need pull-up resistor)

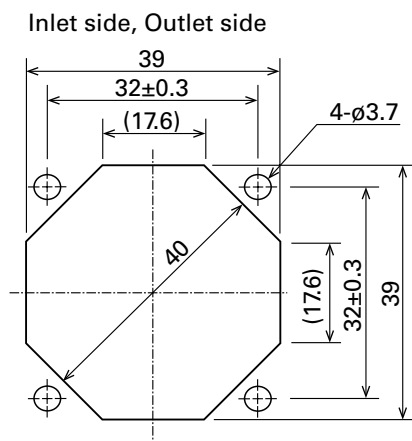
In case of steady running



■ Dimensions (unit: mm)



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



■ Options

Finger guards

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

Notice

- Please read the "Safety Precautions" on our website before using the product.
- The products shown in this catalog are subject to Japanese Export Control Law. Diversion contrary to the law of exporting country is prohibited.
- For protecting fan bearings against electrolytic corrosion near strong electromagnetic noise sources, we provide effective countermeasures such as Electrolytic Corrosion Proof Fans and EMC guards. Contact us for details.

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<https://www.sanyodenki.com/>

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San Ace 52

9RA type

DC Fan

Features

Low Noise

Compared with our current models,⁽¹⁾ noise level has been reduced by 6 dB(A).⁽²⁾

Low Power Consumption

Compared with our current model,⁽³⁾ power consumption has been reduced by approximately 60%.⁽⁴⁾

(1) Current model: 52 × 52 × 15 mm San Ace 52 9P type DC Fan (Model nos. 109P0505M701, 109P0512H701).

(2) Measured on models 9RA0505M7001 and 9RA0512H7001.

(3) Current model: 52 × 52 × 15 mm San Ace 52 9P type DC Fan (Model no. 109P0505M701)

(4) Measured on model 9RA0505M7001.



52 × 52 × 15 mm

Specifications

The models listed below **have ribs and pulse sensors**.

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]
9RA0505M7001	5	4.5 to 5.5	0.06	0.30	3350	0.22 7.7	21 0.084	16	-20 to +70	60000/60°C (90000/40°C)
9RA0512S7001	12	7 to 13.8	0.083	1.00	6250	0.41 14.4	61 0.244	31		
9RA0512H7001			0.043	0.52	4250	0.28 9.8	32 0.128	21		
9RA0524S7001	24	20.4 to 27.6	0.042	1.00	6250	0.41 14.4	61 0.244	31		
9RA0524H7001			0.022	0.53	4250	0.28 9.8	32 0.128	21		

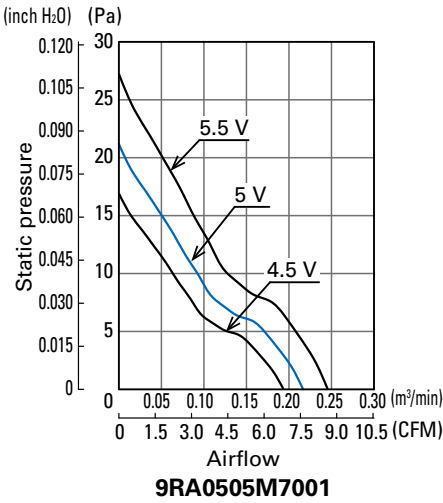
Models with the following sensor specifications are also available as options: **Without sensor** **Lock sensor**

Common Specifications

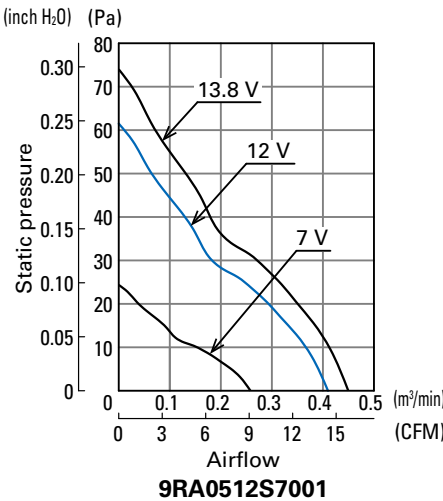
- ☐ Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- ☐ Expected life Refer to specifications
(L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)
Expected life at 40°C is for reference only.
- ☐ Motor protection function Locked rotor burnout protection, Reverse polarity protection
- ☐ 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.
- ☐ Operating temperature Refer to specifications (Non-condensing)
- ☐ Storage temperature -30 to +70°C (Non-condensing)
- ☐ Lead wire ⊕ Red ⊖ Black (Sensor) Yellow
- ☐ Mass 33 g

Airflow - Static Pressure Characteristics

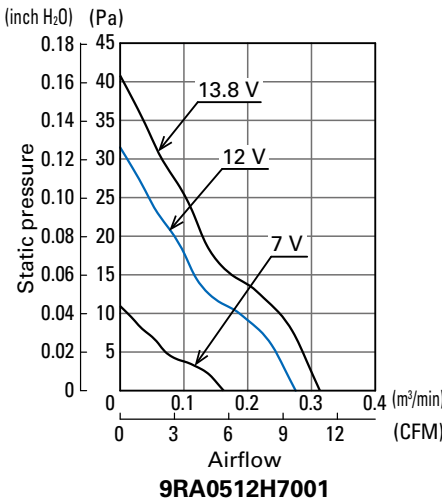
Operating voltage range



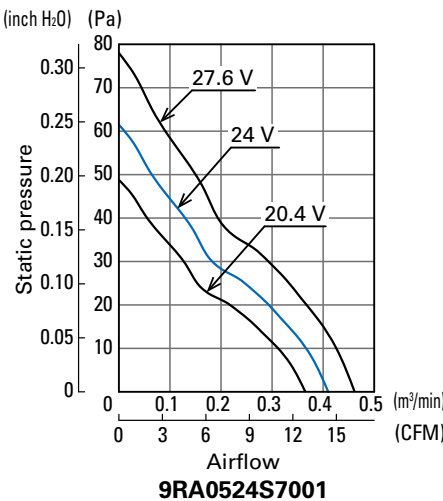
Operating voltage range



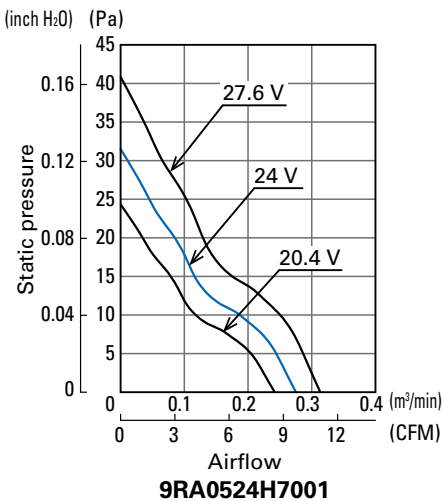
Operating voltage range



Operating voltage range

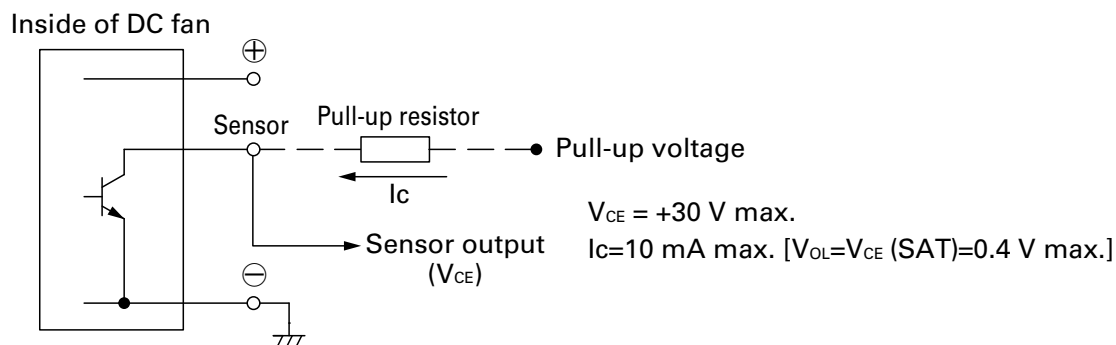


Operating voltage range



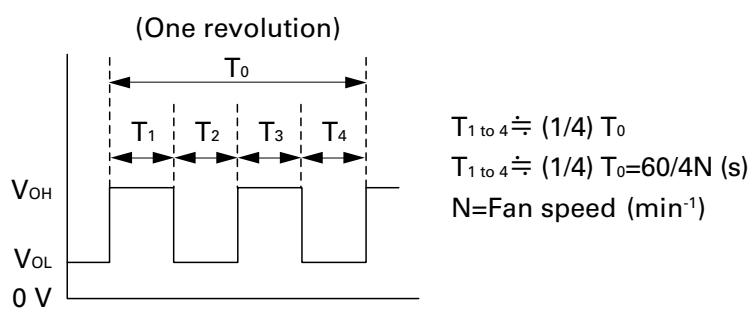
Specifications for Pulse Sensors

Output circuit: Open collector

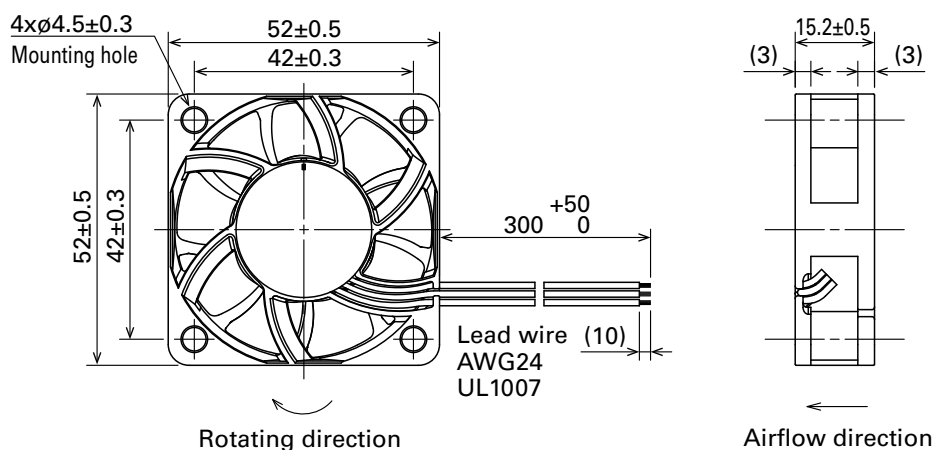


Output waveform (Need pull-up resistor)

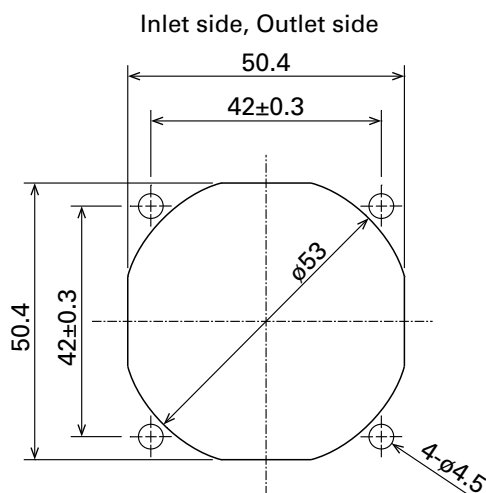
In case of steady running



■ Dimensions (unit: mm)



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



■ Options

Finger guards

Model no.: 109-1156

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