



Ø 136x28 mm

San Ace 136RF 9RFA type

DC

Reversible Flow Fan Ø136 mm

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) 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. 580.
- 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 204 g

Specifications

The models listed below **have ribs and pulse sensors with PWM control function.**

Model no.	Airflow/direction	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]
9RFA1312P3G001	Forward	12	10.2 to 13.8	100	0.25	3.00	5450	2.10 74.2	285 1.14	49	-25 to +70	40000/60°C (70000/40°C)
	Reverse			0	0.25	3.00	5450	2.05 72.4	280 1.12	52		
9RFA1312P3H001	Forward	12	10.2 to 13.8	100	0.16	1.92	4350	1.67 59.2	185 0.74	44		
	Reverse			0	0.16	1.92	4350	1.63 57.8	180 0.72	47		
9RFA1324P3G001	Forward	24	20.4 to 27.6	100	0.13	3.12	5450	2.10 74.2	285 1.14	49		
	Reverse			0	0.13	3.12	5450	2.05 72.4	280 1.12	52		
9RFA1324P3H001	Forward	24	20.4 to 27.6	100	0.08	1.92	4350	1.67 59.2	185 0.74	44		
	Reverse			0	0.08	1.92	4350	1.63 57.8	180 0.72	47		

* PWM frequency is 25 kHz. When control terminal is open, speed is the same as at 100% PWM duty cycle.

Note: The mark indicates Short LeadTime Service applicable models. See p. 630 for details.

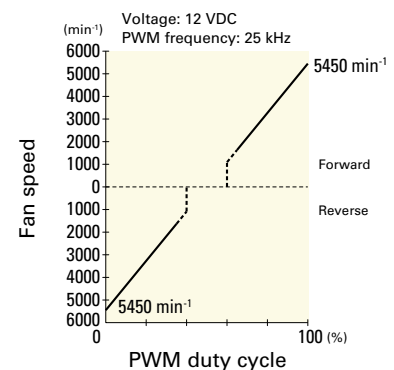
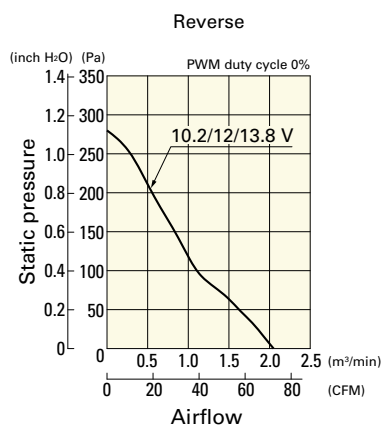
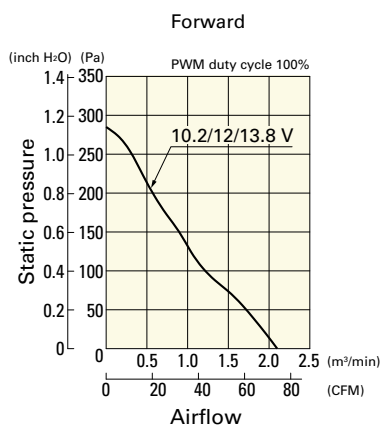
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9RFA1312P3G001 With pulse sensor with PWM control function

Operating voltage range

Operating voltage range

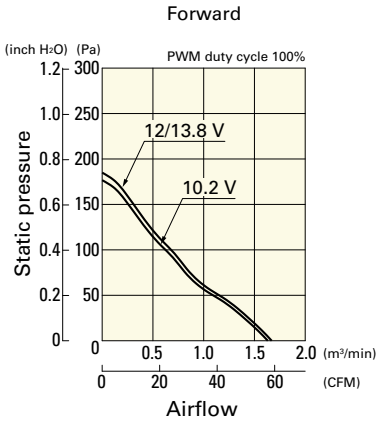
PWM duty - Speed characteristics example



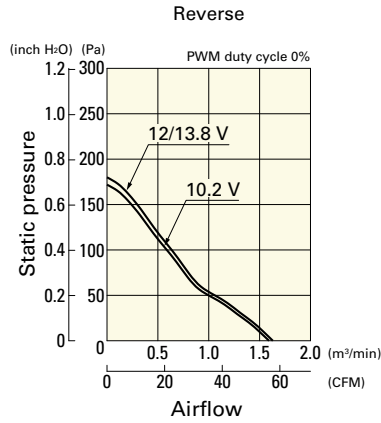
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9RFA1312P3H001 With pulse sensor with PWM control function

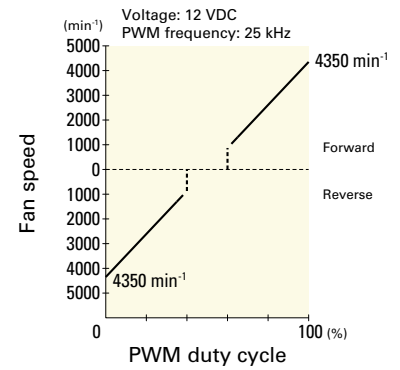
Operating voltage range



Operating voltage range



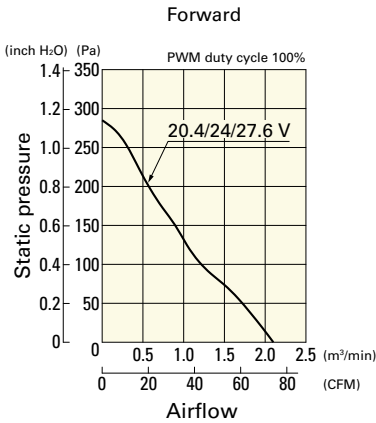
PWM duty - Speed characteristics example



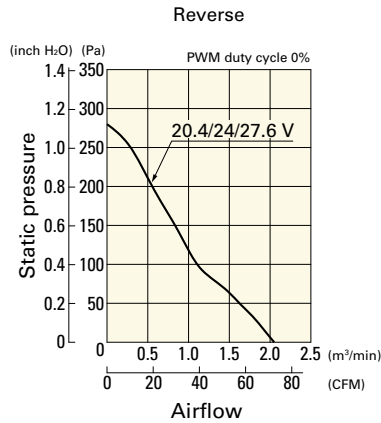
Reversible Flow Fan Ø136 mm DC

9RFA1324P3G001 With pulse sensor with PWM control function

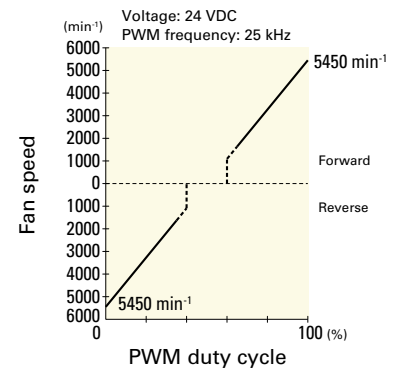
Operating voltage range



Operating voltage range

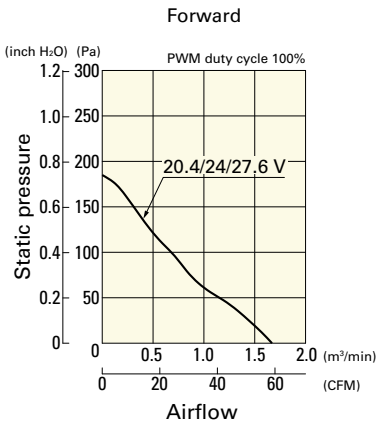


PWM duty - Speed characteristics example

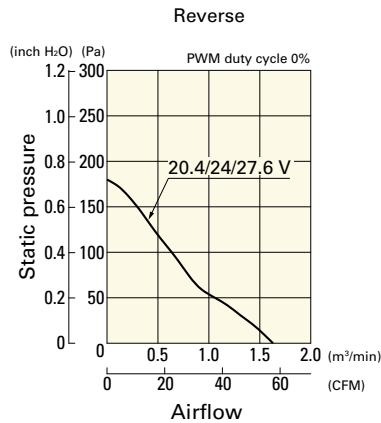


9RFA1324P3H001 With pulse sensor with PWM control function

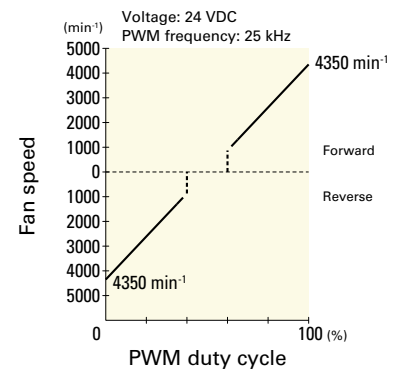
Operating voltage range



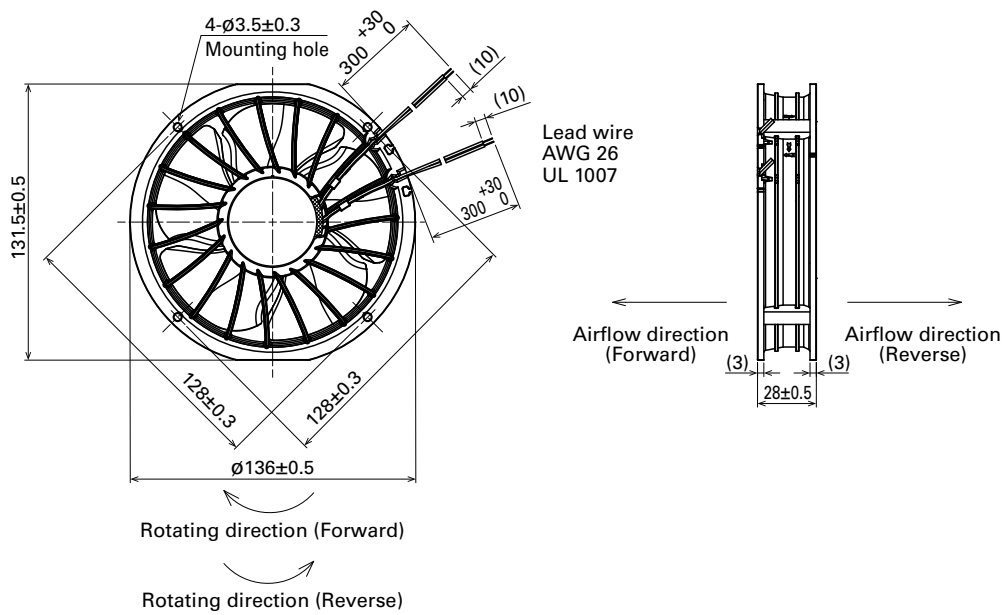
Operating voltage range



PWM duty - Speed characteristics example



Dimensions (unit: mm)

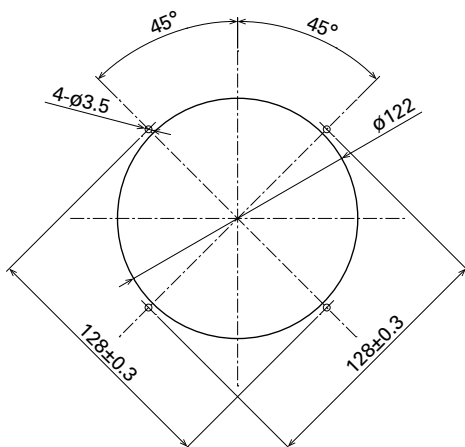


DC

Reversible Flow Fan $\phi 136$ mm

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

Impeller side, Nameplate side



Options

Finger guards

page: p. 565

Model no.: 109-1139