40×40×56 mm

San Ace 40 9CRD type

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. 573.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... At 1 m away from the air inlet
- Storage temperature ..... -30 to +70˚C (Non-condensing)
- Lead wire ..... Inlet ⊕Red ⊖Black (Sensor) Yellow (Control) Brown
  Outlet ⊕Orange ⊖Gray (Sensor) Purple (Control) White
- Mass ..... 90 g

Specifications

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

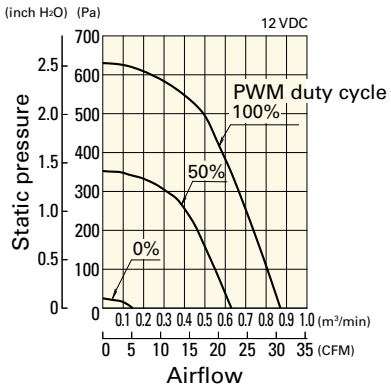
Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min⁻¹] Inlet	Rated speed [min⁻¹] Outlet	Max. airflow [m³/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH₂O]	SPL [dB (A)]	Operating temperature [˚C]	Expected life [h]
9CRD0412P5J03	12	10.8 to 13.2	100	1.15	13.8	19000	12600	0.87	30.72	630	2.53	61	-20 to +70	40000/60˚C (70000/40˚C)
			0	0.12	1.44	3700	2500	0.15	5.3	25	0.1	22		
9CRD0412P5G03			100	0.9	10.8	16700	11250	0.77	27.19	500	2.01	58		
			0	0.1	1.2	3350	2250	0.13	4.59	21	0.08	21		
9CRD0412P5H03			100	0.6	7.2	15000	10000	0.7	24.72	410	1.65	56		
			0	0.09	1.08	3000	2000	0.12	4.24	16	0.06	20		
9CRD0412P5M03			100	0.52	6.24	14000	9300	0.65	22.95	360	1.45	54		
			0	0.07	0.84	2000	1300	0.07	2.47	7	0.03	15		

* PWM input frequency is 25 kHz; models without specifications at 0% PWM duty cycle have zero fan speed at 0%.

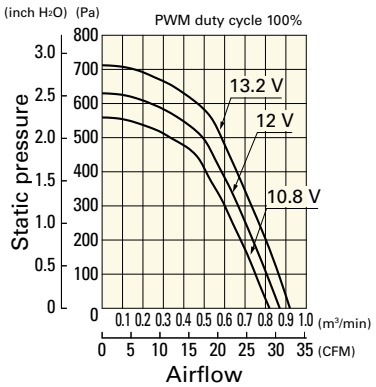
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9CRD0412P5J03 With pulse sensor with PWM control function

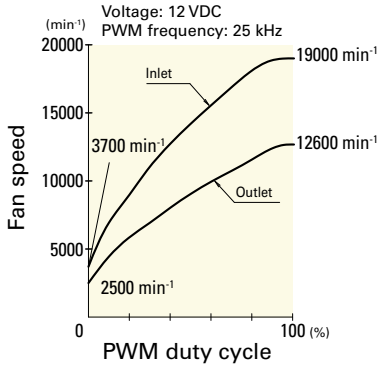
PWM duty cycle



Operating voltage range



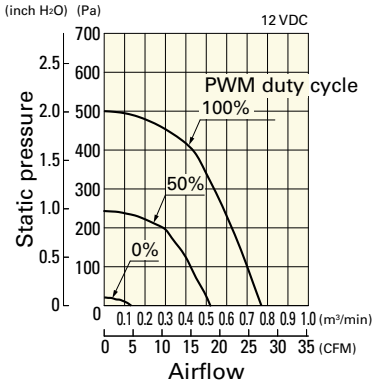
PWM duty - Speed characteristics example



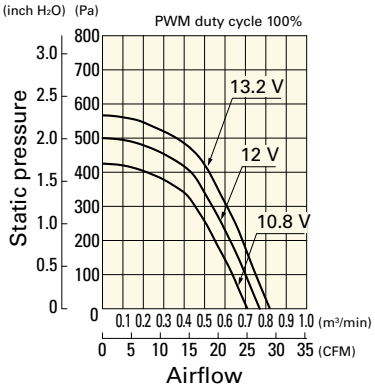
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9CRD0412P5G03 With pulse sensor with PWM control function

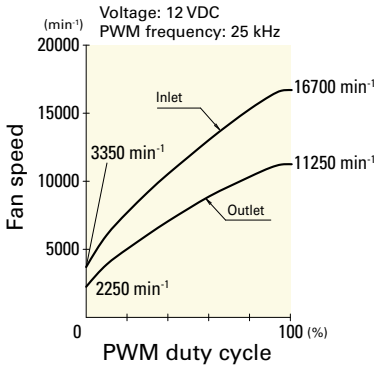
PWM duty cycle



Operating voltage range

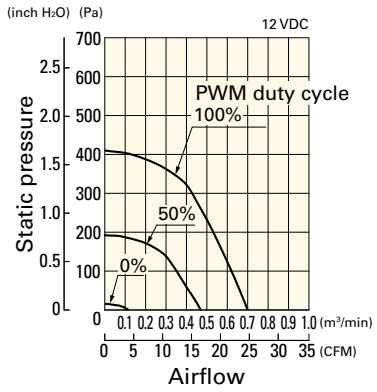


PWM duty - Speed characteristics example

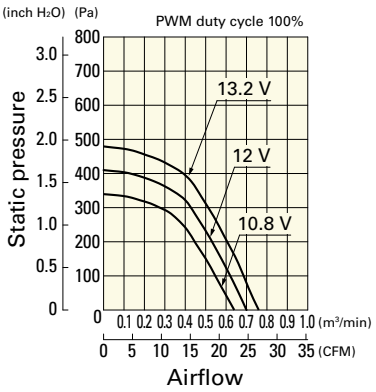


9CRD0412P5H03 With pulse sensor with PWM control function

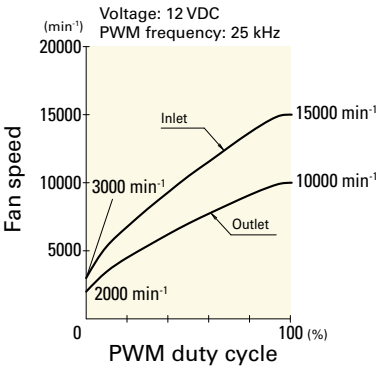
PWM duty cycle



Operating voltage range

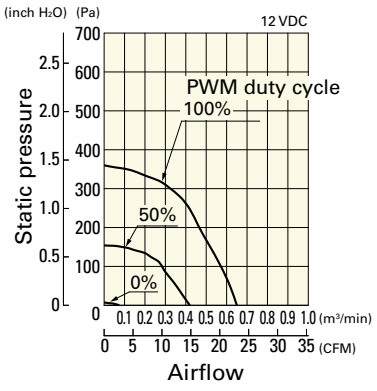


PWM duty - Speed characteristics example

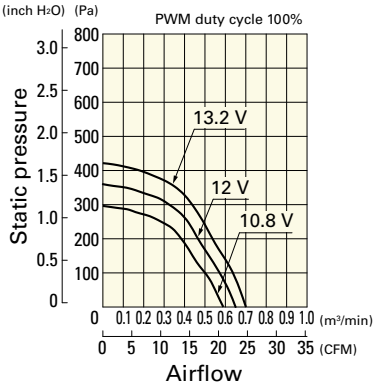


9CRD0412P5M03 With pulse sensor with PWM control function

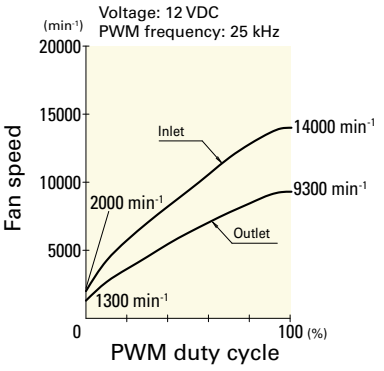
PWM duty cycle



Operating voltage range

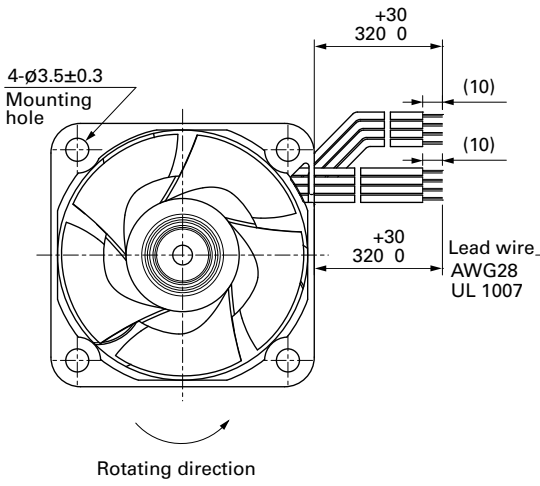


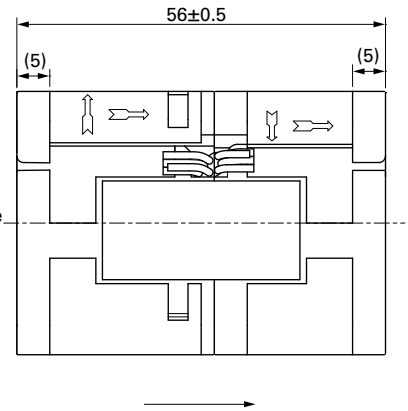
PWM duty - Speed characteristics example



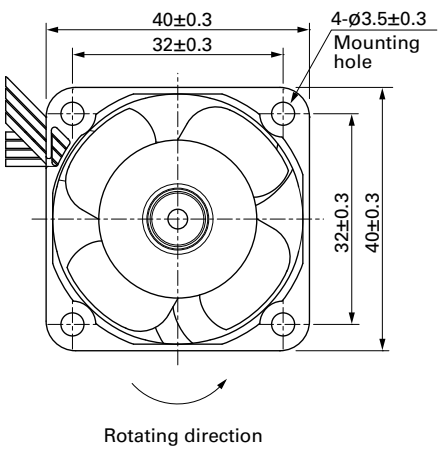
Dimensions (unit: mm)

Inlet side



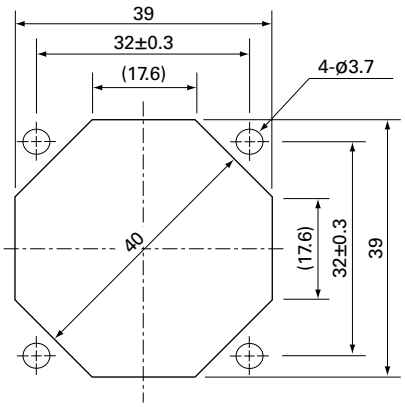


Outlet side



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

Inlet side, Outlet side



Options

Finger guards page: p. 558

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