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60mm sq.**San Ace 60****General Specifications**

- Material.....Frame: Plastics (Flammability: UL94V-0),
Impeller: Plastics (Flammability: UL94V-1)
- Expected LifeRefer to specifications (L10:Survival rate:90% at 60°C ,
rated voltage, and continuously run in a free air state)
- Lead Wire⊕red ⊖black (Sensor) yellow (Control) brown
- Storage Temperature ...-30°C to +70°C (Non-condensing)

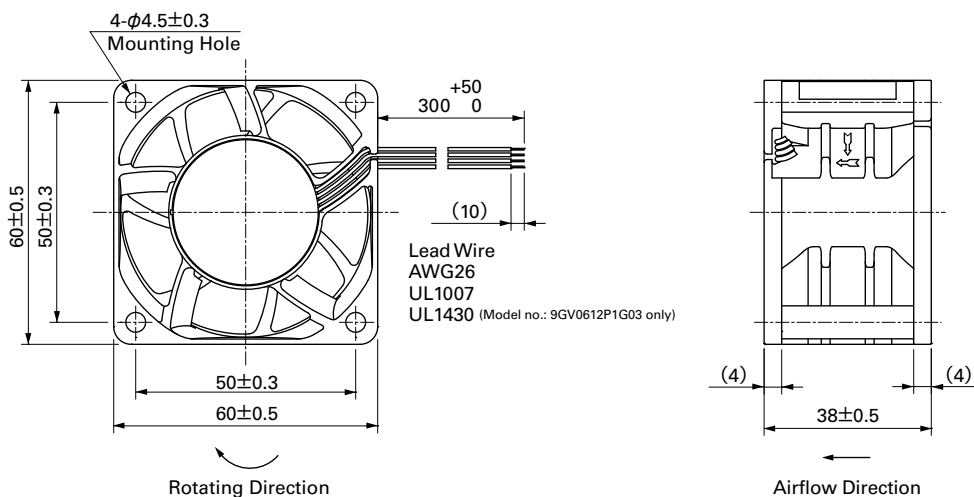
60×60×38mm [Mass : 130g]**9GV type****Specifications** The following nos. **have PWM controls, pulse sensors, and ribs.** For ribless, append "1" to the model no.

Model No.	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 Range [°C]	Expected Life [h]
9GV0612P1G03	12	8.0 to 13.8	100	2.8	33.6	16,000	2.37 84	751 3.02	66	-20 to +70	40,000/60°C
			0	0.12	1.5	3,100	0.44 15	26 0.10	25		
9GV0612P1H03			100	2.0	24.0	14,500	2.15 76	617 2.48	63		
			0	0.1	1.2	2,700	0.40 14	21 0.09	22		
9GV0612P1M03	12	10.8 to 13.8	100	1.5	18.0	13,000	1.93 68	496 1.99	60		
			0	0.08	1.0	2,500	0.38 13	18 0.07	19		
9GV0612P1L01 (Note)			100	0.7	8.4	10,000	1.49 52.6	293 1.17	52		
9GV0624P1G03	24	20.4 to 27.6	100	1.4	33.6	16,000	2.37 84	751 3.02	66		
			0	0.12	2.88	6,000	0.89 31	105 0.42	38		
9GV0624P1M03 (Note)			100	0.73	17.52	13,000	1.93 68.0	496 1.99	60		
9GV0648P1H03	48	38 to 57	100	0.5	24	14,500	2.15 76	617 2.48	63		
			0	0.08	3.84	6,000	0.89 31	105 0.42	38		

Note : Fan does not rotate when PWM duty cycle is 0%.

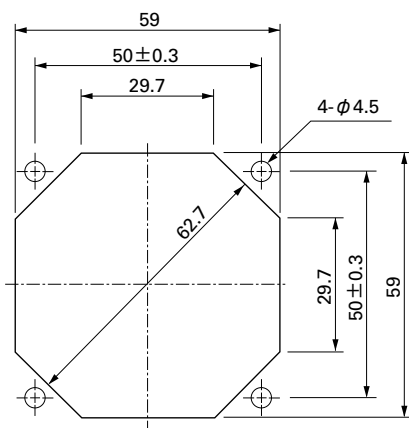
※PWM Frequency : 25kHz

Other sensor specifications are available as options. Please refer to the index (p. 507).

Dimensions (unit: mm) (With ribs)

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

Inlet side, Outlet side

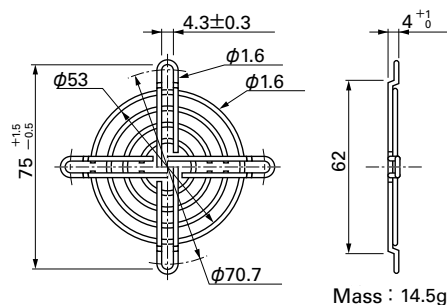


Options (unit: mm)

Finger Guards

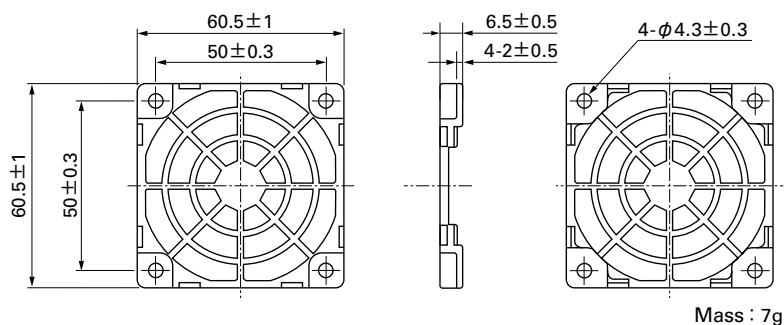
Model : 109-139E Surface treatment : Nickel-chrome plating (silver) Color : 109-139H : Cation electropainting (black)

Inlet side, Outlet side



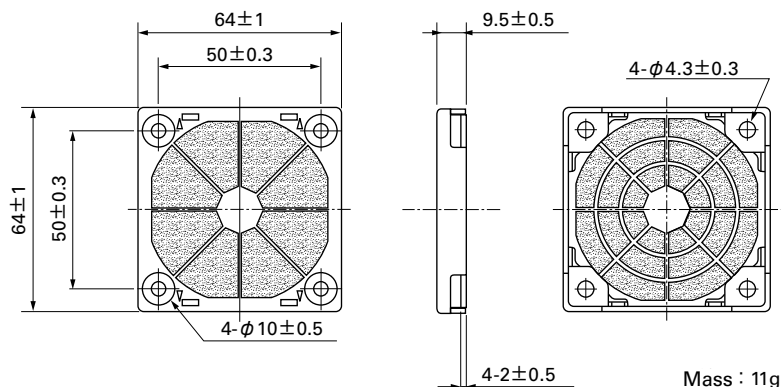
Resin Finger Guards

Model : 109-1003G



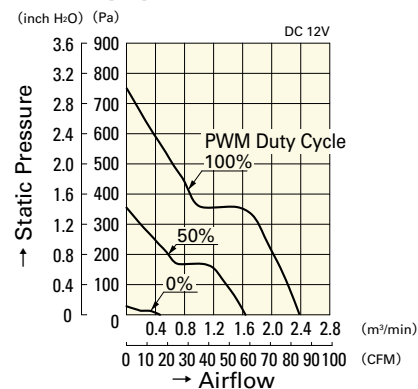
Resin Filter Kits

Model : 109-1003F13 (13PPI), 109-1003F20 (20PPI)
: 109-1003F30 (30PPI), 109-1003F40 (40PPI)



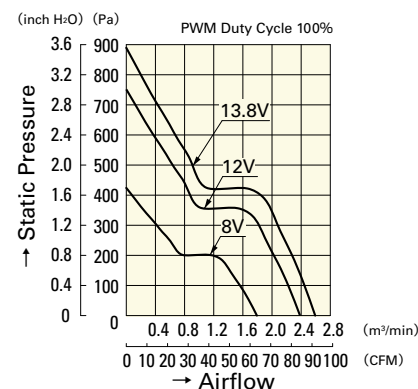
Airflow - Static Pressure Characteristics

PWM Duty Cycle



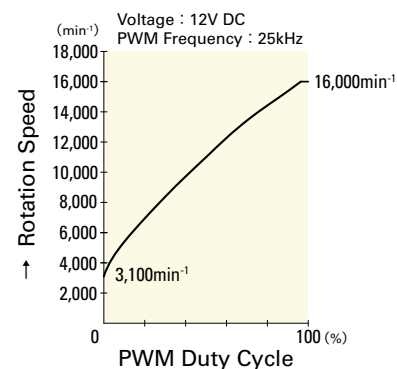
9GV0612P1G03

Operating Voltage Range

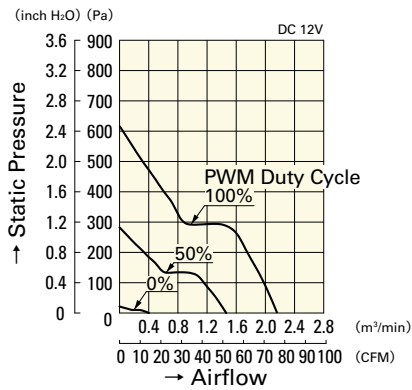
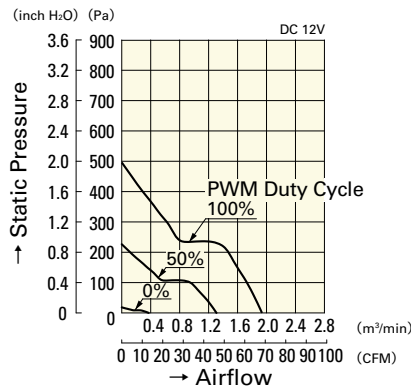
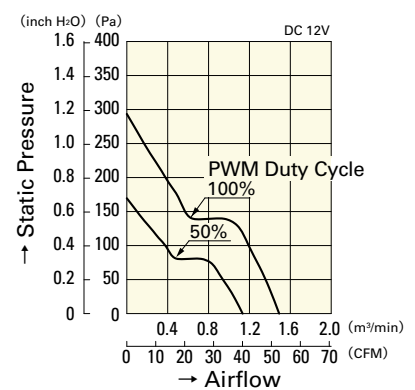
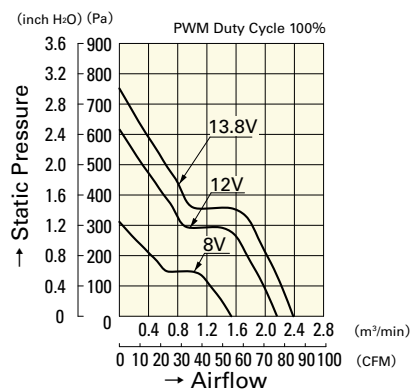
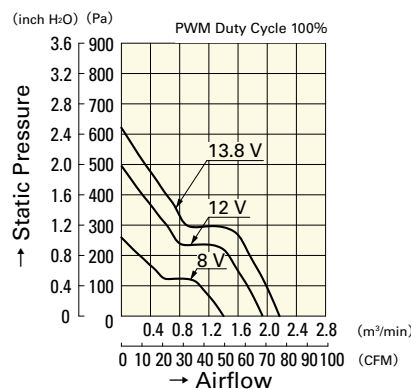
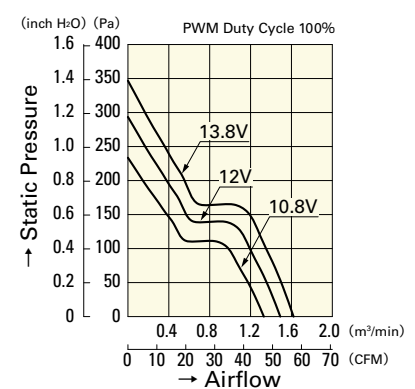
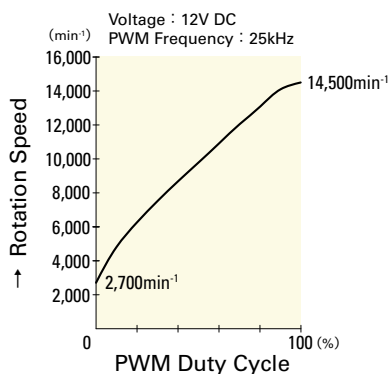
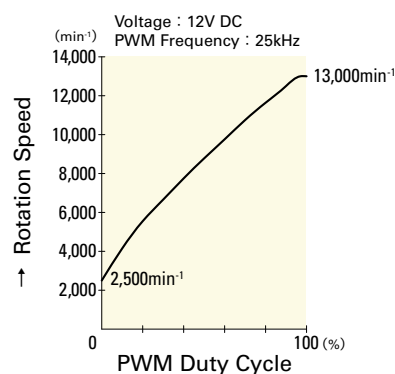
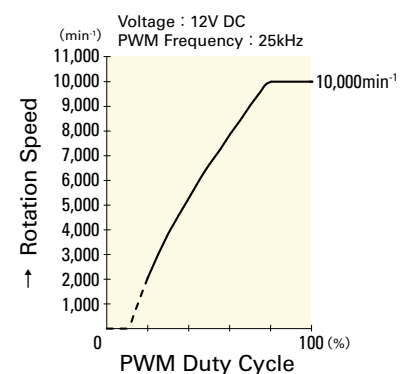


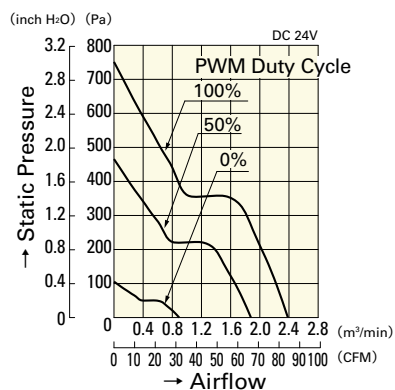
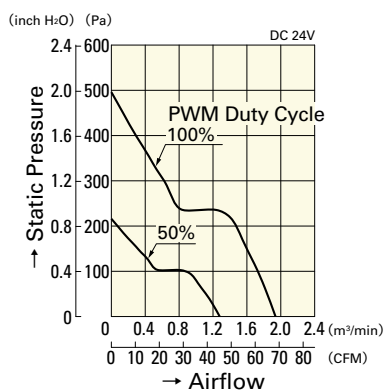
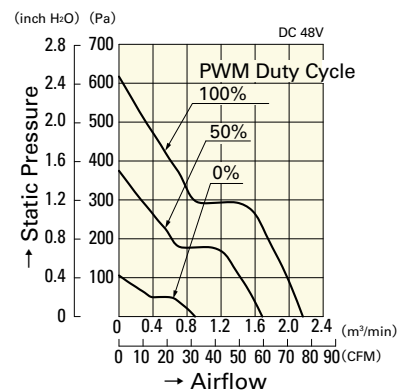
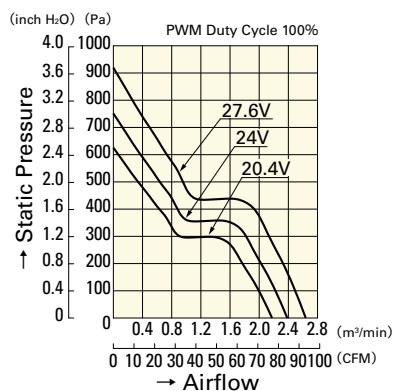
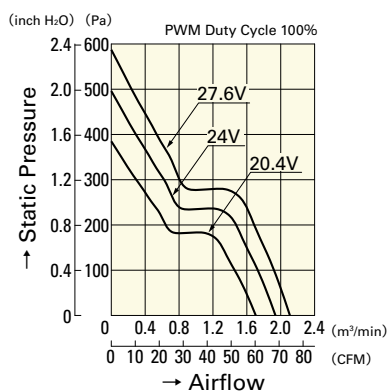
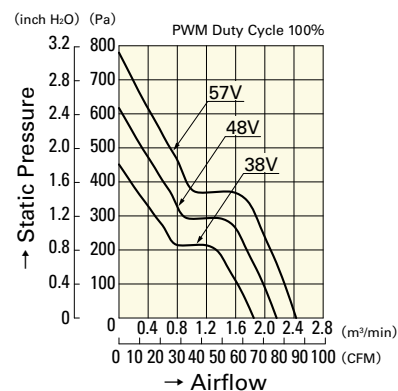
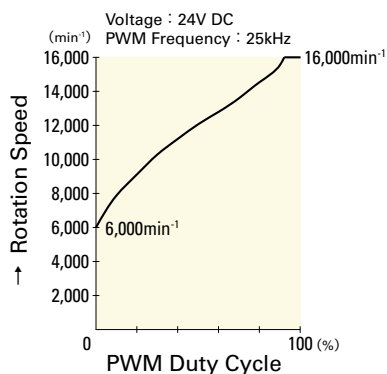
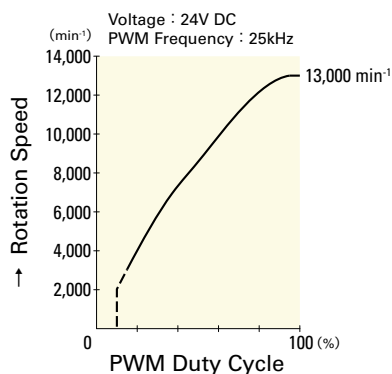
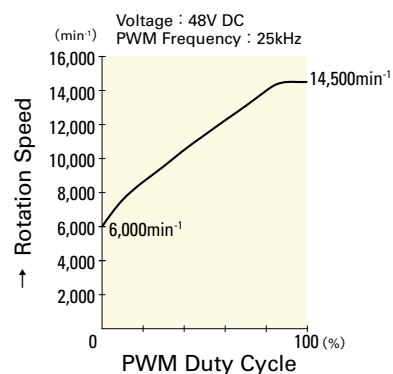
9GV0612P1G03

PWM Duty - Speed Characteristics Example



9GV0612P1G03

60mm sq.**San Ace 60****60×60×38mm** [Mass : 130g]**Airflow - Static Pressure Characteristics****PWM Duty Cycle****9GV0612P1H03****9GV0612P1M03****9GV0612P1L01****Operating Voltage Range****9GV0612P1H03****9GV0612P1M03****9GV0612P1L01****PWM Duty - Speed Characteristics Example****9GV0612P1H03****9GV0612P1M03****9GV0612P1L01**

**9GV0624P1G03****9GV0624P1M03****9GV0648P1H03****9GV0624P1G03****9GV0624P1M03****9GV0648P1H03****9GV0624P1G03****9GV0624P1M03****9GV0648P1H03**