

**92**mm sq.**San Ace 92L****General Specifications**

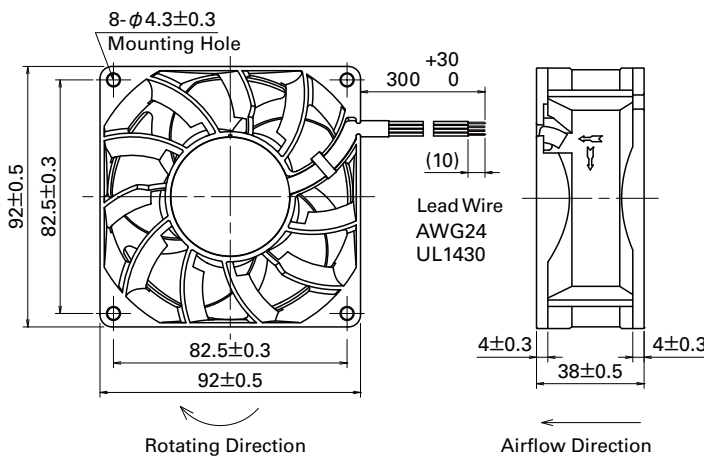
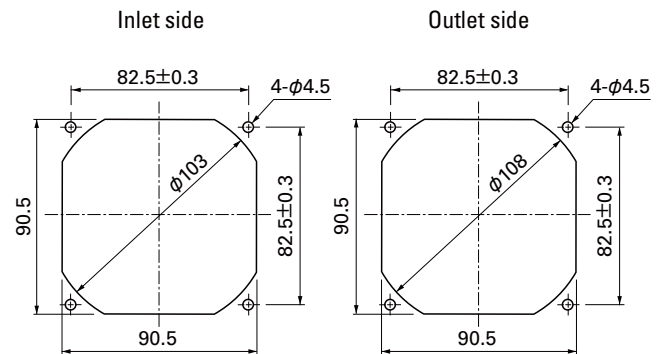
- Material.....Frame: Aluminum,  
Impeller: Plastics (Flammability: UL94V-1)
- Expected Life .....Refer to specifications (L10:Survival rate:90% at 60°C ,  
rated voltage, and continuously run in a free air state)
- Lead Wire .....⊕red ⊖black (Sensor) yellow (Control) brown
- Storage Temperature ...-30°C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

**92×92×38mm** [Mass : 270g]**9LG type****High Airflow****Specifications** The following nos. **have PWM controls and pulse sensors.**

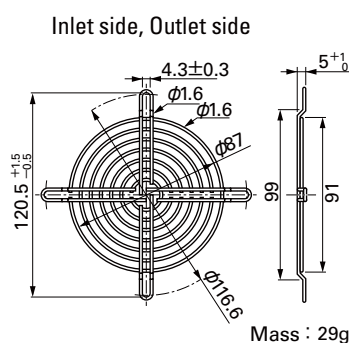
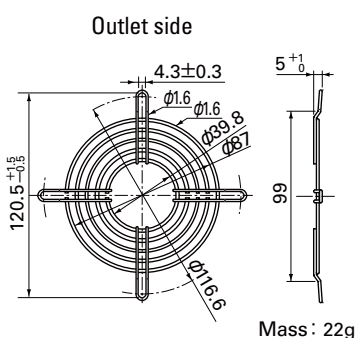
| Model No.     | Rated Voltage [V] | Operating Voltage Range [V] | PWM duty cycle <sup>Note 1)</sup> [%] | Rated Current [A] | Rated Input [W] | Rated Speed [min <sup>-1</sup> ] | Max. Airflow [m³/min] [CFM] | Max. Static Pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB(A)] | Operating Temperature [°C] | Expected Life [h] |
|---------------|-------------------|-----------------------------|---------------------------------------|-------------------|-----------------|----------------------------------|-----------------------------|--------------------------------------------------|-------------|----------------------------|-------------------|
| 9LG0912P1H001 | 12                | 10.2 to 13.8                | 100                                   | 2.0               | 24.0            | 9,000                            | 3.70 130.6                  | 430 1.72                                         | 61          | -20 to +70                 | 180,000/60°C      |
|               |                   |                             | 20                                    | 0.18              | 2.16            | 2,700                            | 1.11 39.1                   | 38.7 0.15                                        | 30          |                            |                   |
| 9LG0912P1F001 |                   |                             | 100                                   | 1.0               | 12.0            | 7,000                            | 2.90 102.4                  | 263 1.05                                         | 55          |                            |                   |
|               |                   |                             | 20                                    | 0.11              | 1.32            | 2,000                            | 0.83 29.3                   | 21.5 0.08                                        | 22          |                            |                   |
| 9LG0924P1H001 | 24                | 20.4 to 27.6                | 100                                   | 0.9               | 21.6            | 9,000                            | 3.70 130.6                  | 430 1.72                                         | 61          |                            |                   |
|               |                   |                             | 20                                    | 0.08              | 1.92            | 2,700                            | 1.11 39.1                   | 38.7 0.15                                        | 30          |                            |                   |
| 9LG0924P1F001 |                   |                             | 100                                   | 0.5               | 12.0            | 7,000                            | 2.90 102.4                  | 263 1.05                                         | 55          |                            |                   |
|               |                   |                             | 20                                    | 0.06              | 1.44            | 2,000                            | 0.83 29.3                   | 21.5 0.08                                        | 22          |                            |                   |

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

※PWM Frequency : 25kHz

**Dimensions (unit: mm)****Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)****Options (unit: mm)****Finger Guards**

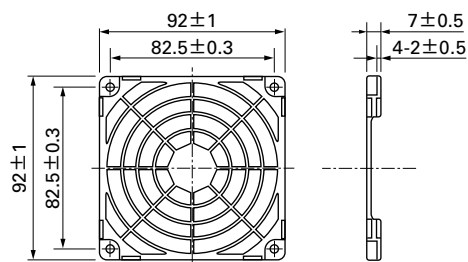
Model : 109-099C Color : Nickel-chrome plating (silver)

Model : 109-099E Surface treatment : Nickel-chrome plating (silver)  
Model : 109-099H Surface treatment : Cation electropainting (black)

## Options (unit: mm)

### Resin Finger Guards

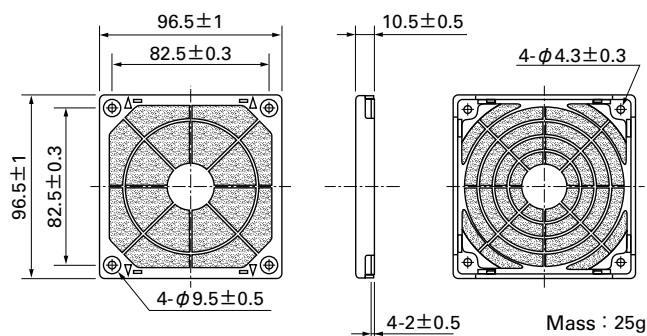
Model : 109-1001G



Mass : 12g

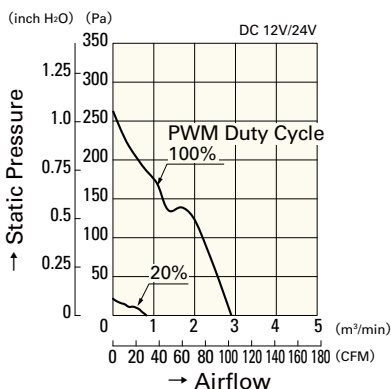
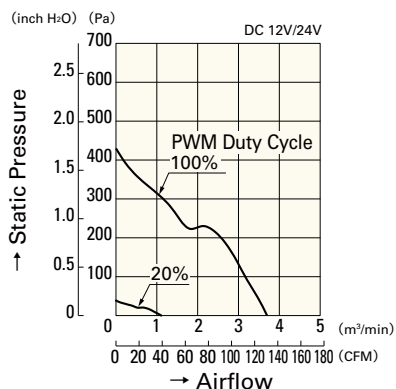
### Resin Filter Kits

Model : 109-1001F13 (13PPI), 109-1001F20 (20PPI)  
: 109-1001F30 (30PPI), 109-1001F40 (40PPI)



## Airflow - Static Pressure Characteristics

### PWM Duty Cycle



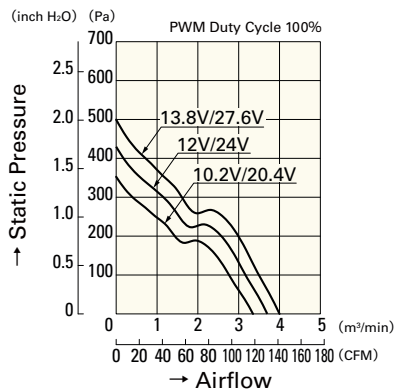
9LG0912P1H001

9LG0924P1H001

9LG0912P1F001

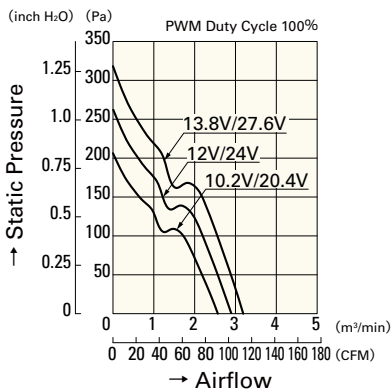
9LG0924P1F001

### Operating Voltage Range



9LG0912P1H001

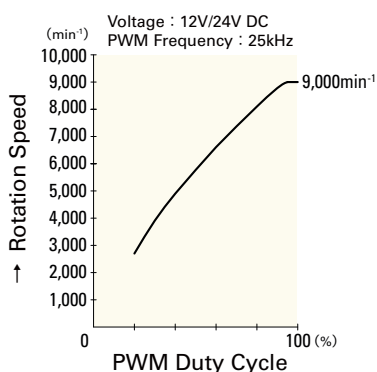
9LG0924P1H001



9LG0912P1F001

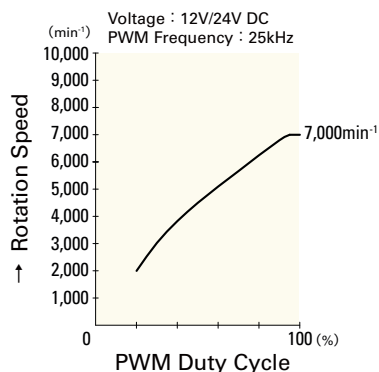
9LG0924P1F001

## PWM Duty - Speed Characteristics Example



9LG0912P1H001

9LG0924P1H001



9LG0912P1F001

9LG0924P1F001

DC

Long Life Fan 92mm