

**80**mm sq.**San Ace 80L**

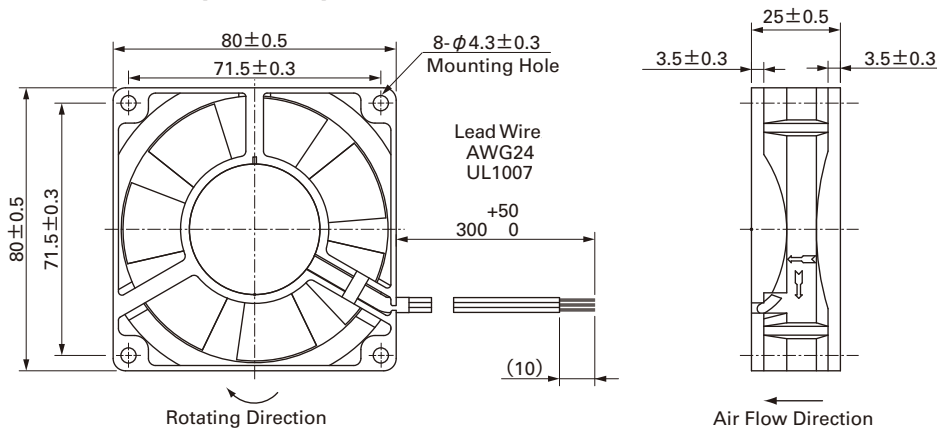
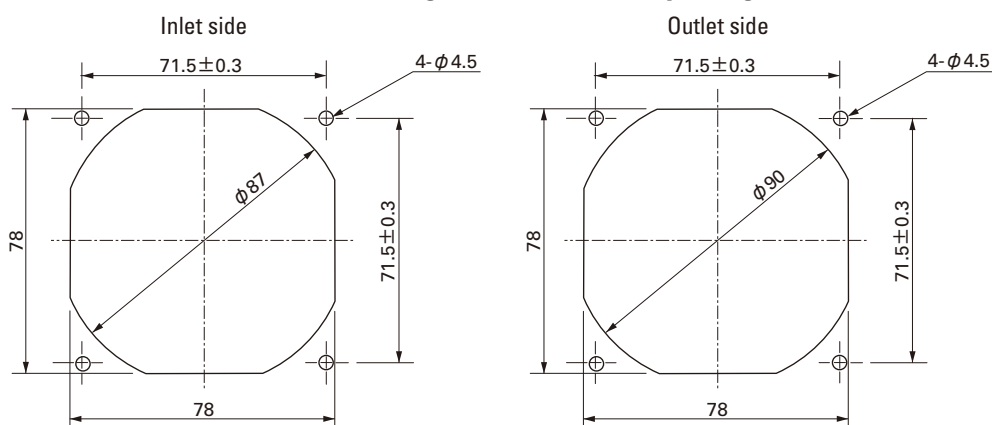
25mm thick

**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 or blue (Sensor) yellow
- Storage Temperature ..... -30°C to +70°C (Non-condensing)

**80×80×25mm** [Mass : 150g]**Specifications** The following nos. **have pulse sensors.**

| Model No.    | Rated Voltage [V] | Operating Voltage Range [V] | Rated Current [A] | Rated Input [W] | Rated Speed [min <sup>-1</sup> ] | Max. Air Flow [m <sup>3</sup> /min] [CFM] | Max. Static Pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB(A)] | Operating Temperature [°C] | Expected Life [h] |
|--------------|-------------------|-----------------------------|-------------------|-----------------|----------------------------------|-------------------------------------------|--------------------------------------------------|-------------|----------------------------|-------------------|
| 109L0812S401 | 12                | 10.2 to 13.8                | 0.26              | 3.12            | 3,400                            | 1.2                                       | 42.4                                             | 50          | - 20 to + 70               | 100,000           |
| 109L0812H401 |                   |                             | 0.18              | 2.16            | 3,000                            | 1.06                                      | 37.4                                             | 39.2        |                            |                   |
| 109L0812F401 |                   |                             | 0.14              | 1.68            | 2,700                            | 0.93                                      | 32.8                                             | 32.3        |                            |                   |
| 109L0812M401 |                   |                             | 0.1               | 1.2             | 2,400                            | 0.83                                      | 29.3                                             | 26.5        |                            |                   |
| 109L0812L401 |                   |                             | 0.08              | 0.96            | 1,900                            | 0.63                                      | 22.2                                             | 16.7        |                            |                   |
| 109L0824S401 | 24                | 20.4 to 27.6                | 0.11              | 2.64            | 3,400                            | 1.2                                       | 42.4                                             | 50          |                            |                   |
| 109L0824H401 |                   |                             | 0.09              | 2.16            | 3,000                            | 1.06                                      | 37.4                                             | 39.2        |                            |                   |
| 109L0824F401 |                   |                             | 0.08              | 1.92            | 2,700                            | 0.93                                      | 32.8                                             | 32.3        |                            |                   |
| 109L0824M401 |                   |                             | 0.07              | 1.68            | 2,400                            | 0.83                                      | 29.3                                             | 26.5        |                            |                   |
| 109L0824L401 |                   |                             | 0.05              | 1.2             | 1,900                            | 0.63                                      | 22.2                                             | 16.7        |                            |                   |
| 109L0848H401 | 48                | 40.8 to 55.2                | 0.06              | 2.88            | 3,150                            | 1.1                                       | 38.8                                             | 43.1        | 0.173                      | 34                |

Available options: ⇒ **Without Sensor**Please inquire as the availability of these functions depend on the model. ⇒ **Lock Sensor** **Low speed Sensor****Dimensions (Unit : mm)****Reference dimension of mounting holes and vent opening (Unit : mm)**

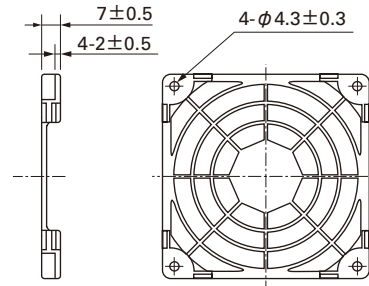
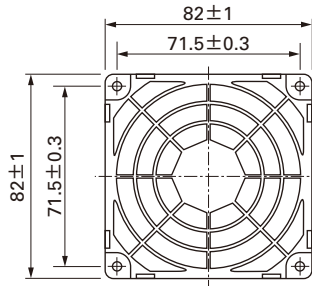
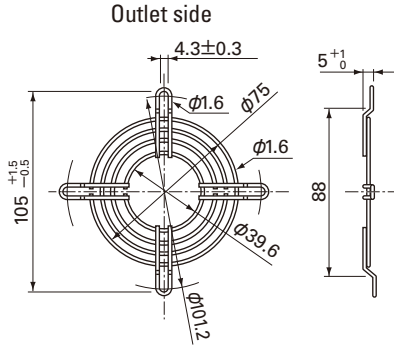
## Options (Unit : mm)

### Finger guards

Model : 109-049C Surface treatment : Nickel-chrome plating (silver) Color

### Resin Finger guards

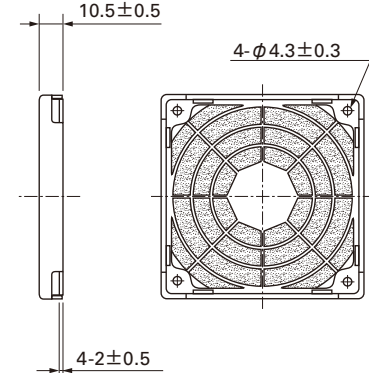
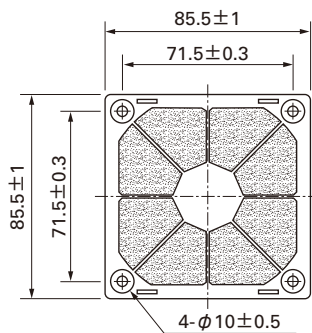
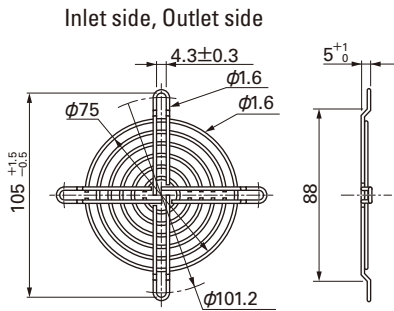
Model : 109-1002G



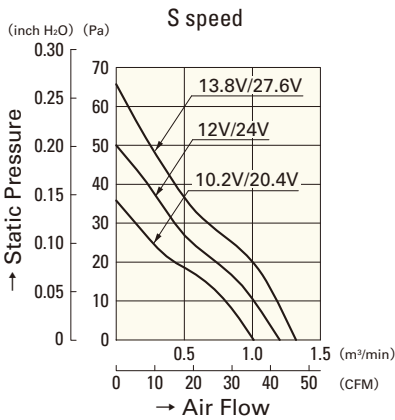
Model : 109-049E Surface treatment : Nickel-chrome plating (silver) Color  
: 109-049H : Cation electropainting (black)

### Resin filter kits

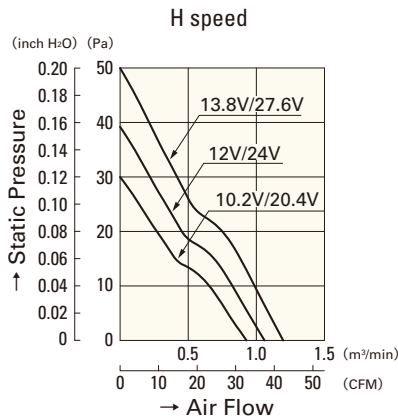
Model : 109-1002F13 (13PPI), 109-1002F20 (20PPI)  
: 109-1002F30 (30PPI), 109-1002F40 (40PPI)



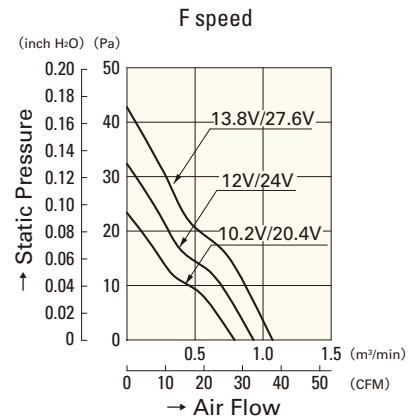
## Air Flow - Static Pressure Characteristics



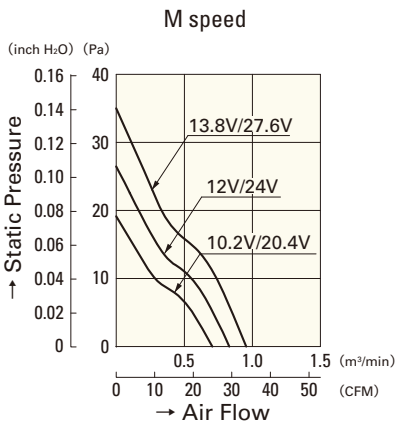
**109L0812S401**  
**109L0824S401**



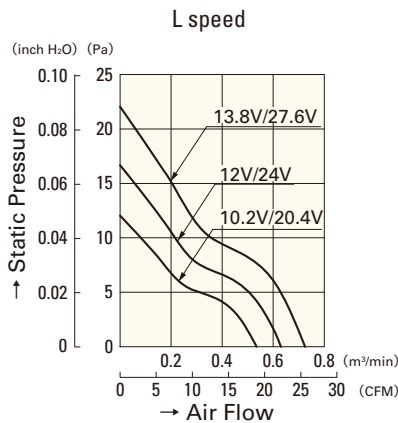
**109L0812H401**  
**109L0824H401**



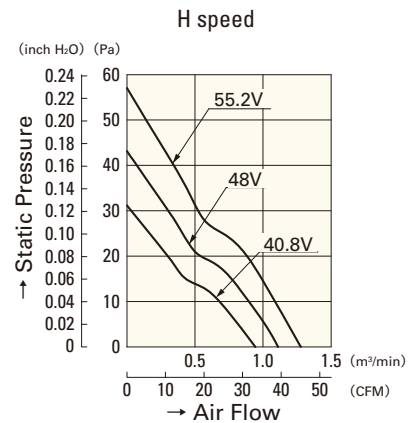
**109L0812F401**  
**109L0824F401**



**109L0812M401**  
**109L0824M401**



**109L0812L401**  
**109L0824L401**



**109L0848H401**

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