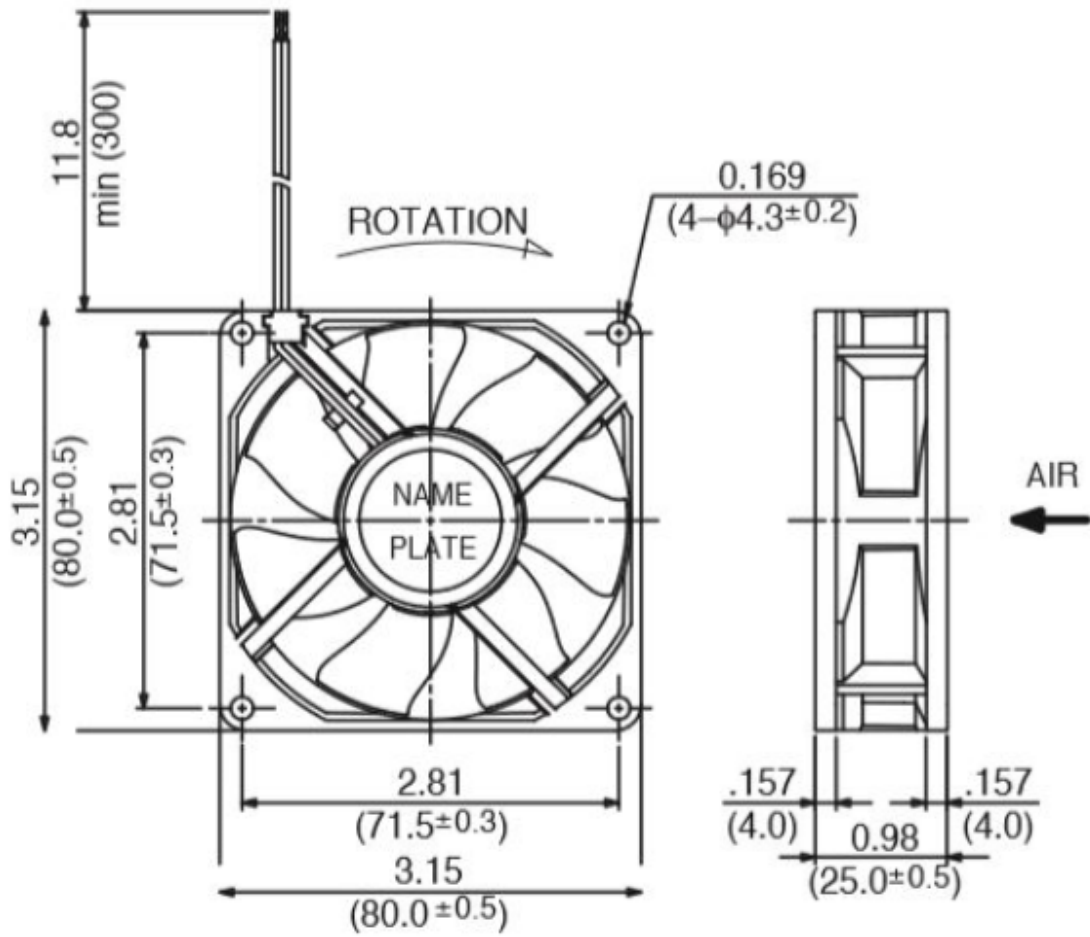
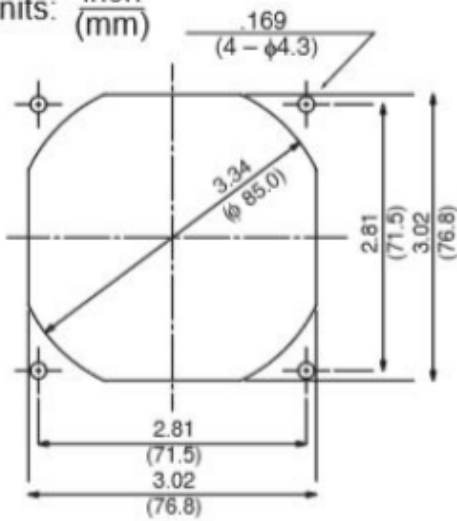


## Detailed Specifications

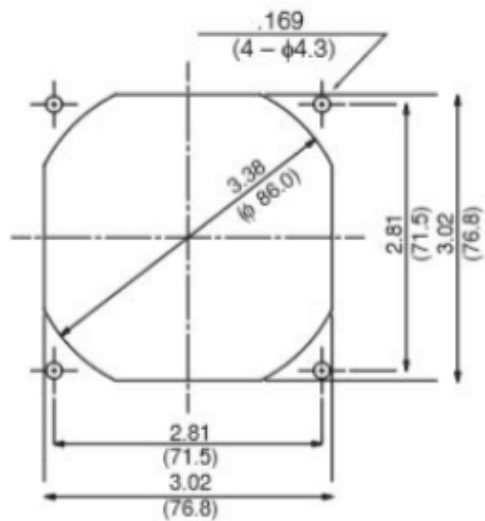
<b>Frame Width:</b>	80[mm]
<b>Frame Height:</b>	80[mm]
<b>Frame Depth:</b>	25[mm]
<b>Max. Air Flow:</b>	45.9[CFM]
<b>Max. Air Flow:</b>	1.3[m <sup>3</sup> per min]
<b>Max. Static Pressure:</b>	0.26[In H <sub>2</sub> O]
<b>Max. Static Pressure:</b>	64.4[Pa]
<b>Fan Speed:</b>	4000[RPM]
<b>Noise:</b>	40[dB]
<b>Life Expectancy:</b>	25 degree C 50,000 Hours[L10]
<b>Bearing Type:</b>	Ball Bearing
<b>Nominal Voltage:</b>	12[V]
<b>Operating Voltage - Lower:</b>	6[V]
<b>Operating Voltage - Upper:</b>	13.8[V]
<b>Current:</b>	0.29[A]
<b>Input Power:</b>	3.9[W]
<b>Mass:</b>	95[g]
<b>Tach / Locked Rotor Output:</b>	Locked Rotor
<b>Status:</b>	EOL



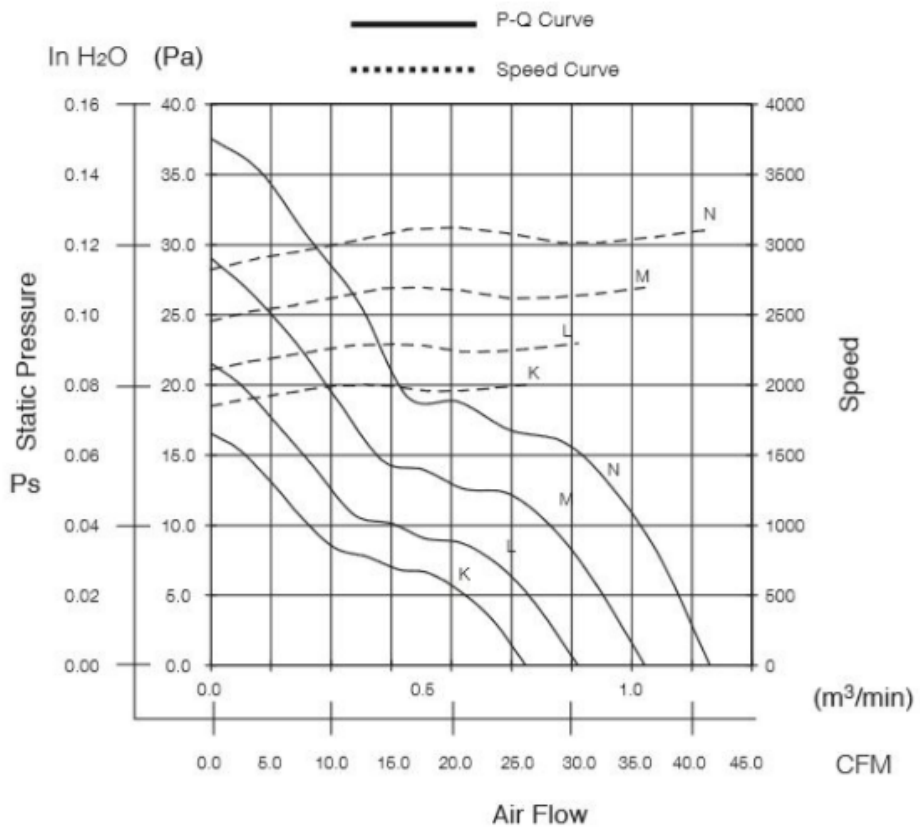
Units:  $\frac{\text{inch}}{\text{mm}}$



INLET SIDE



OUTLET SIDE



## DC fan motors -Precautions & Instructions for Use

To ensure that the fan motor is used safely and correctly, carefully read and understand before use.

### PRECAUTIONS

1. Do not use in a volatile or flammable environment or in a location subject to water splashing.
2. All works such as installations, wiring connections and inspections must be conducted by personnel with specialist knowledge. Failure to observe this may result in electric shocks or other injuries. Before starting any work, turn off the power and check that the work can be conducted safely.  
Shut down the operation of your product and motor when any abnormality occurred. It might cause a fire, injury or electric shock.
3. Do not pull or pinch lead wires while the power is on. This may cause an electric shock. Also, do not touch connectors or other live parts while the power is on. Failure to observe this may result in electric shocks.
4. All these products do not have specifications that can handle applications requiring extremely high levels of reliability, such as medical equipment or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your nearest MinebeaMitsumi representative before using any MinebeaMitsumi products described or contained herein in such applications.
5. Do not use the fan motor in vehicles, ships or any other environment subject to strong vibrations.
6. Do not disassemble or modify the motor.

### INSTRUCTIONS FOR USE

1. Because of the possibility of injury, do not touch the spindle or other rotating parts with your hands or fingers during operation.
2. Static electricity may cause damage the fan motor or other equipment. Take appropriate measures against static electricity when installing the fan motor.
3. Be sure to hold the frame when handling the fan motor and avoid letting the lead wires hang down.
4. Ensure that the operating voltage range (including frequency for an AC fan motor) and operating environment (temperature and humidity ranges) always comply with the values specified in this catalog.
5. Values listed in the catalogs, specification sheets and other documents stipulate the performance, characteristics, and functions of the fan motor in a state of being independently activated without being mounted in user's products or equipment. To verify symptoms and

issues that cannot be expected by an evaluation of a stand-alone fan motor, the customer should certainly evaluate and test the fan motor mounted in the customer's products or equipment.

6. When mounting this product for fixation, be sure to take into consideration the product's weight, the vibrations generated during operation, the vibrations from the periphery and all other relevant factors. The abnormal vibration or noise by resonance may affect the performance, characteristics, and functions of the described product. If the mounting place is vibrating, the bearing of the fan motor may be damaged. Please select installing place where the housing is flat, no step or warp so that the rotating body does not touch after installation.

Regarding the location and method where the fan motor is installed, please verify that you do not generate resonance vibration noises.

7. The design and specification of the motor may change without notice.

## **OTHER PRECAUTIONS**

1. The life of fan motor may be shorter than the catalog values under high temperature and high humidity environment.
2. Storage area should not be in high temperature, high humidity environment, and storage term shall be within 6 months as much as possible. In the case of long-term preservation under high temperature or high humidity environment, It cannot be guaranteed even within the quality assurance period of time. Please keep it under normal temperature condition.
3. Turn the power ON after connecting all the terminals out of the motor. Incomplete connection, wiring change while conducting, inserting and removing connectors may cause breakdown and degradation. When turning off the power supply, please do not disconnect the connection on the minus side first while connecting the plus side.
4. Provide a fuse, a protection circuit, etc. to ensure safety against injuries to human body or fires that may arise from accidental failure of motor or circuit.
5. Do not remove the name plate on the motor.
6. When using obstacles in the suction inlet or discharge outlet, place the obstacles at an adequate distance from the fan so that noise is reduced to a minimum. (We recommend a distance greater than the radius of the impeller.)
7. Design the suction inlet, discharge outlet and internal flow paths taking into account the air flow-stationary characteristics and noise aspects so that an efficient and satisfactory air flow is obtained.
8. Since the products are open type motors, please avoid using or storing them in places with many rubbish, dust, lint and insects.  
If you use them in an environment that they are entangled with the inside of the rotor or the rotating body, it may shorten the bearing life or cause rotation disturbance.  
Please install a filter not to get dust, lint, and insects inside the motor so that they do not get caught in the body.  
Never insert a foreign substance into the rotating fan motor; otherwise the rotating body will be damaged.
9. When using the products in particular environments, where corrosive substances are present,

cutting oil and moisture are exist, please contact us in advance and select a model with high IP performance.

The impeller used has excellent durability and is made of composite resin, but avoid usage in locations where it is likely to receive the influence of petroleum based oils such as machining oil, or poisonous gases.

10. When attaching the fan, we recommend using the correct tightening torque.

When using flange type fan motor, We recommend to use only one side using a screw to tighten it.

When a flange type of product is fixed with bolts through the upper and lower mounting holes, the casing may be deformed, causing rotation failure.

Installing with pressure on the side of the casing of the fan motor, the wind tunnel and the impeller may come into contact and there may be a possibility of rotation hindrance.

11. Check the matching when mounting the fan in the set position or have the set manufacturer check this and provide quality assurance.

Matching check case examples for mounting the fan

Electrical noise emission, mechanical noise emission, vibration, resonance, static noise resistance, electrical noise resistance, mis-operation, etc.

12. Please note following notice at readable position for operators when this product is to be used, or please take countermeasure at finished product which make operators of the product keep away from moving fan blades.

**WARNING**

Hazardous moving parts

Keep away from moving fan blades

13. We shall be free from compensation for any damages induced due to failure of fan motor.