# THE COMPANY

Cooltron is an US company that specializes in the design and manufacturing of axial fans and blowers. The company was founded in 1998 with the goal of delivering high performance thermal solutions applicable in every market. Currently, Cooltron offers the broadest range of AC and DC axial fans in the world.

Our team specializes in the Toyota Production System to achieve the optimal workflow while minimizing waste. This methodology allows us to focus our resources on developing break-through solutions while meeting six-sigma quality standards.

## ADVANTAGES

- Approved by major testing groups and manufactured by ISO certified factories.
- Three year standard warranty on all fans, blowers, and fan accessories.
- 25% Shorter lead time than the cooling fan industrial average.
- Over 200,000 units of inventory stock with JIT delivery and logistic systems.
- The broadest selection, able to meet various specifications and target prices.
- Dependable and knowledgeable service team to assist you in your designs or project.

We strive to take the art of air movement to the next level. Our patented Stator Outlet Blade technology helps reduce turbulence caused by fan blades, thereby streamlining the fluid flow. This results in a higher airflow and motor effciency at a noise increase of only five percent. Available on various Cooltron models. Cooltron's engineering team has also developed one of the smallest cooling fans in the world. At 15mm wide and 6mm thick, this tiny DC fan is as small as a dime but delivers up to 0.43cfm of air power.

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## DC FANS


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|---|---|---|
| 15x15x06mm | FD1506-71 | 9 |
| 20x20x06mm | FD2006-71 | 10 |
| 25x25x10mm | FD2510-71 | 11 |
| 30x30x06mm | FD3006-71 | 12 |
| 30x30x10mm | FD3010-71 | 13 |
| 30x30x10mm | FD3010-82 | 14 |
| 35x35x10mm | FD3510-71 | 15 |
| 40x40x07mm | FD4007-71 | 16 |
| 40x40x10mm | FD4010-71 | 17 |
| 40x40x10mm | FD4010-75 | 18 |
| 40x40x10mm | FD4010-81 | 19 |
| 40x40x10mm | FD4010-83 | 20 |
| 40x40x10mm | FD4010-84 | 21 |
| 40x40x20mm | FD4020-71 | 22 |
| 40x40x20mm | FD4020-82 | 23 |
| 40x40x28mm | FD4028-61 | 24 |
| 40x40x28mm | FD4028-82 | 25 |
| 40x40x28mm | FD4028-85 | 26 |
| 50x50x10mm | FD5010-71 | 27 |
| 50x50x10mm | FD5010-73 | 28 |
| 50x50x10mm | FD5010-83 | 29 |
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| 50x50x15mm | FD5015-71 | 31 |
| 50x50x25mm | FD5025-81 | 32 |
| 60x60x10mm | FD6010-71 | 33 |
| 60x60x10mm | FD6010-83 | 34 |
| 60x60x10mm | FD6010-84 | 35 |
| 60x60x15mm | FD6015-71 | 36 |
| 60x60x15mm | FD6015-83 | 37 |
| 60x60x15mm | FD6015-84 | 38 |
| 60x60x20mm | FD6020-71 | 39 |
| 60x60x20mm | FD6020-81 | 40 |
| 60x60x25mm | FD6025-21 | 41 |
| 60x60x25mm | FD6025-71 | 42 |
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| 60x60x25mm | FD6025-75 | 44 |
| 60x60x25mm | FD6025-83 | 45 |
| 60x60x25mm | FD6025-84 | 46 |
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| 60x60x38mm | FD6038-81 | 48 |
| 70x70x10mm | FD7010-71 | 49 |
| 70x70x10mm | FD7010-83 | 50 |
| 70x70x10mm | FD7010-84 | 51 |
| 70x70x15mm | FD7015-81 | 52 |
| 70x70x38mm | FD7038-81 | 53 |
| 80x80x10mm | FD8010-71 | 54 |
| 80x80x10mm | FD8010-83 | 55 |
| 80x80x10mm | FD8010-84 | 56 |
| 80x80x15mm | FD8015-71 | 57 |
| 80x80x15mm | FD8015-82 | 58 |
| 80x80x15mm | FD8015-83 | 59 |
| 80x80x15mm | FD8015-84 | 60 |
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| 80x80x25mm | FD8025-71 | 62 |
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| 80x80x25mm | FD8025-75 | 64 |
| 80x80x25mm | FD8025-83 | 65 |
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| 80x80x25mm | FD8025-85 | 67 |
| 80x80x38mm | FD8038-81 | 68 |
| 80x80x38mm | FD8038-85 | 69 |
| 92x92x25mm | FD9225-71 | 70 |
| 92x92x25mm | FD9225-83 | 71 |
| 92x92x25mm | FD9225-84 | 72 |
| 92x92x25mm | FD9225-85 | 73 |
| 92x92x38mm | FD9238-81 | 74 |
| 92x92x38mm | FD9238-85 | 75 |
| 120x120x25mm | FD1225-61 | 76 |
| 120x120x25mm | FD1225-75 | 77 |
| 120x120x25mm | FD1225-84 | 78 |
| 120x120x32mm | FD1232-61 | 79 |
| 120x120x38mm | FD1238-62 | 80 |
| 120x120x38mm | FD1238-63 | 81 |
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| 120x120x38mm | FD1238-85 | 83 |
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## DC BLOWERS


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|---|---|---|
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| 50x50x15mm | FBD5015-61 | 89 |
| 50x50x15mm | FBD5015-81 | 90 |
| 51x51x25mm | FBD5025-61 | 91 |
| 57x57x12mm | FBD5712-81 | 92 |
| 60x60x15mm | FBD6015-81 | 93 |
| 60x60x25mm | FBD6025-81 | 94 |
| 75x77x30mm | FBD7530-61 | 95 |
| 75x75x30mm | FBD7530-81 | 96 |
| 93x93x30mm | FBD9330-61 | 97 |
| 97x94x33mm | FBD9733-61 | 98 |
| 97x94x33mm | FBD9733-81 | 99 |
| 120x120x32mm | FBD1232-61 | 100 |
| 120x120x32mm | FBD1232-81 | 101 |
| 121x121x37mm | FBD1237-51 | 102 |
| 180x171x81mm | FBD1881-61 | 103 |

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| 120x120x38mm | FA1238-61 | 121 |
| 120x120x38mm | FA1238-78 | 122 |
| 120x120x38mm | FA1238-92 | 123 |
| 120x120x38mm | FA1238-96 | 124 |
| 120x120x38mm | FA1238-97 | 125 |
| 127x127x38mm | FA1238-53 | 126 |
| 159x159x50mm | FA1650-78 | 127 |
| 160x160x62mm | FA1662C-51 | 128 |
| 160x160x62mm | FA1662C-52 | 129 |
| 170x150x38mm | FA1738C-31 | 130 |
| 172x150x38mm | FA1738C-51 | 131 |
| 172x150x38mm | FA1738-96 | 132 |
| 172x150x51mm | FA1751C-31 | 133 |
| Ø170x51mm | FA1751C-51 | 134 |
| 172x151x51mm | FA1751/1751C-52 | 135 |
| 172x150x51mm | FA1751-61 | 136 |
| 171x150x51mm | FA1751-78 | 137 |
| 172x150x51mm | FA1751-96 | 138 |
| 172x150x51mm | FA1751-97 | 139 |
| 172x150x55mm | FA1755C-31 | 140 |
| 170x150x55mm | FA1755C-51 | 141 |
| 180x180x65mm | FA1865C-51 | 142 |
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## AC BLOWERS


| | | |
|---|---|---|
| 125x126x40mm | FBA1231C-31 | 150 |
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| 220x220x56mm | FBA2256C-51 | 152 |


## EC FANS


| | | |
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# FAN PART NUMBER SYSTEM

## FANS AND BLOWERS

**FD 2510 B 05 W 3 C-11-2N X C 1**

### FAN TYPE — FD

**FD:** DC Fan
**FA:** AC Fan
**FBD:** DC Blower
**FBA:** AC Blower
**FDA:** AC-DC

### FAN SIZE — 2510

| | | | |
|---|---|---|---|
| **1506:** 15x15x06mm | **5025:** 50x50x25mm | **9238:** 92x92x38mm | **2589:** Ø254x89mm |
| **2006:** 20x20x06mm | **5712:** 57x57x12mm | **9330:** 93x93x30mm | |
| **2510:** 25x25x10mm | **6010:** 60x60x10mm | **9733:** 97x94x33mm | |
| **2515:** 25x25x15mm | **6015:** 60x60x15mm | **1225:** 120x120x25mm | |
| **3006:** 30x30x06mm | **6020:** 60x60x20mm | **1231:** 125x126x40mm | |
| **3010:** 30x30x10mm | **6025:** 60x60x25mm | **1232:** 120x120x32mm | |
| **3015:** 30x30x15mm | **6038:** 60x60x38mm | **1237:** 121x121x37mm | |
| **3510:** 35x35x10mm | **7010:** 70x70x10mm | **1238:** 120x120x38mm | |
| **4007:** 40x40x07mm | **7015:** 70x70x15mm | **1662:** 160x160x62mm | |
| **4010:** 40x40x10mm | **7038:** 70x70x38mm | **1738:** 172x150x38mm | |
| **4015:** 40x40x15mm | **7530:** 75x75x30mm | **1751:** 172x150x51mm | |
| **4020:** 40x40x20mm | **8010:** 80x80x10mm | **1751:** Ø170x51mm | |
| **4028:** 40x40x28mm | **8015:** 80x80x15mm | **1755:** 172x150x55mm | |
| **4510:** 45x45x10mm | **8020:** 80x80x20mm | **1865:** 180x180x65mm | |
| **5010:** 50x50x10mm | **8025:** 80x80x25mm | **1881:** 180x171x81mm | |
| **5015:** 50x50x15mm | **8038:** 80x80x38mm | **1890:** 180x180x90mm | |
| **5020:** 50x50x20mm | **9225:** 92x92x25mm | **2260:** Ø222x60mm | |

### BEARING — B

**S:** Sleeve **B:** Dual Ball **L:** Long Life **C:** One Ball One Sleeve **F:** Fluid Lubricant

### VOLTAGE — 05

**03:** 3.3VDC **09:** 9VDC **24:** 24VDC **60:** 60VDC **22:** 220~240VAC
**05:** 5VDC **12:** 12VDC **48:** 48VDC **11:** 110~120VAC **DL:** 115/230 Dual AC Voltage

### LEAD TYPE — W

**W:** WireLead **T:** Terminal

### SPEED — 3

| | | | | |
|---|---|---|---|---|
| **02:** Super Extra Low | **1:** Third Low | **4:** Medium Low | **7:** High | **10:** Fourth High |
| **01:** Fifth Low | **2:** Low Low | **5:** Medium | **8:** High High | **11:** Fifth High |
| **00:** Fourth Low | **3:** Low | **6:** Medium High | **9:** Third High | **12:** Super Extra High |

### FEATURES — C

**C:** Capacitor and Thermal Control

### VERSION — 11

Within the same size, different numbers depict a different version of that model.

### FUNCTIONS — 2N

Please refer to page 7 for a list of special functions.

### IP RATINGS — X

**U:** IP 22 **D:** IP 25 **K:** IP 33 **V:** IP 43 **W:** IP 44 **X:** IP 54 **Y:** IP 55
**"Blank":** Without IP applied
Please refer to page 7 for a list of IP Ratings

### CONNECTORS — C

**C:** With Connector **"Blank":** Normal

### TYPE — 1

1,2,3,...,9 **"Blank":** Normal

# ACCESSORY PART NUMBER SYSTEM

## FAN GUARDS AND FILTERS

**FGW - 025A - 1**

**TYPE** — FGW

**FGW:** Wire Form Fan Guard
**FGP:** Plastic Fan Guard
**FPF:** Plastic Fan Filter
**FFA:** Aluminum Fan Filter
**FFV:** Ventilator Filter Unit

**FOR FAN SIZE** — 025A

**025:** 25x25mm
**030:** 30x30mm
**035:** 35x35mm
**040:** 40x40mm
**050:** 50x50mm
**060:** 60x60mm
**070:** 70x70mm
**080:** 80x80mm
**090:** 92x92mm
**120:** 120x120mm
**162:** 172x150mm
**206:** Ø220x60mm
**220:** Ø224x60mm
**250:** Ø254x89mm
**259:** Ø254x89mm

**VERSION** — 1

Within the same size, different numbers depict a different version of that model.

## FAN POWER CORDS

**FPC-L 12 P-7 D 2**

**TYPE** — FPC

**FPC:** Fan Power Cord

**CORD HEAD** — L

**T:** "T" Type Plug
**V:** 45° Type Plug
**L:** 90° Type Plug
**S:** Straight Type Plug

**CORD LENGTH** — 12

**12:** 12 inches
**24:** 24 inches
**36:** 36 inches
**40:** 40 inches
**48:** 48 inches
**60:** 60 inches
**72:** 72 inches
**84:** 84 inches
**96:** 96 inches
**108:** 108 inches
**120:** 120 inches

**CORD END** — P

**P:** NEMA SPT-1 Head Plug
**W:** Blunt Cut End - Stripped and Tinned

**LENGTH BTW CONN.** — 7

**7:** 7 inches
**10:** 10 inches
**12:** 12 inches

**DAISY CHAIN** — D

**D:** Daisy Chain

**CONNECTORS** — 2

**2:** 2 connectors
**3:** 3 connectors
**4:** 4 connectors
**5:** 5 connectors
**6:** 6 connectors
**7:** 7 connectors
**8:** 8 connectors
**9:** 9 connectors
**10:** 10 connectors
**11:** 11 connectors
**12:** 12 connectors

# EXCELLENCE VS. STANDARD SERIES

## ES

### EXCELLENCE SERIES

The Excellence Series line designated by an ES is designed for high-end applications that require exceptional reliability, such as medical instruments. Fans and blowers that fall under this series have a superior lifespan and performance. Compared to a similar fan or blower from the standard series, this line would be more durable and longer lasting due to its superior engineering and materials.

Excellence Series, dual ball bearing:
Operating Temperature: -20°C to 70° C (Humidity 15% to 90% RH)
Storage Temperature: -40°C to 85°C (Humidity 15% to 90% RH)

## SS

### STANDARD SERIES

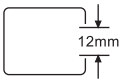
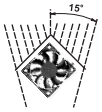
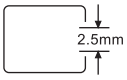
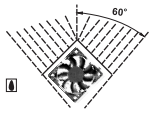
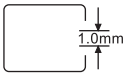
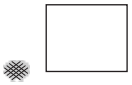
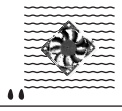
The Standard Series line designated by a SS is designed for general applications such as computers and cabinets. Fans and blowers that fall under this series have a standard lifespan and reliability that exceeds the industrial average. They are also more price competitive than comparable fans in the excellence series.

Standard Series, dual ball bearing:
Operating Temperature: -10°C to 70° C (Humidity 35% to 85% RH)
Storage Temperature: -40°C to 75°C (Humidity 35% to 85% RH)

## IP

## INGRESS PROTECTION RATING

IP (Ingress Protection) Ratings are developed by the European Committee for Electro Technical Standardization (CENELEC) to specify the environmental protection an enclosure provides.

| First Digit | Protection From Solid Objects | Second Digit | Protection From Liquid |
|---|---|---|---|
| 2 |   Touching by finger or 12mm dia. objects | 2 |   Showering at 15° No harmful ingress |
| 3 |   Touching by tools or wire 2.5mm dia. or 2.5mm dia. objects | 3 |   Showering at 60° No harmful ingress |
| 4 |   Touching by tools or wire 1.0mm dia. or 1.0mm dia. objects | 4 | Splashing from any directions No harmful ingress |
| 5 |  Total touch protection or no harmful ingress of dust | 5 | Water jets from any directions No harmful ingress |
| 6 | Total touch protection or no ingress of dust | 6 |  Large volumes of water No ingress |

## SF

## SPECIAL FUNCTIONS (SUFFIX CODES)

**2N:** Standard Leads(2 wires)
**2R:** Auto Restart IC (2 wires)
**2K:** Thermistor + Auto Restart (2 wires)
**3H:** Alarm High + Auto Restart (3 wires)
**3L:** Alarm Low + Auto Restart (3 wires)
**3C:** Alarm High-Low + Auto Restart (3 wires)
**3R:** F/G + Auto Restart (3 wires)
**3F:** F/G (3 wires)
**3J:** Thermistor +Auto Restart (3 wires)
**3K:** Thermistor (3 wires)
**3U:** Thermistor + Alarm High + Auto Restart
**3M:** Thermistor + Alarm Low + Auto Restart
**3P:** Thermistor + Alarm High-Low + Auto Restart
**3Q:** Thermistor + F/G + Auto Restart
**3S:** PWM + Auto Restart
**3T:** PWM + Thermistor + Auto Restart
**4T:** Thermistor + F/G + Auto Restart
**4M:** Thermistor + Alarm High + Auto Restart
**4P:** Thermistor + Alarm Low + Auto Restart
**4K:** PWM + Alarm High + Auto Restart
**4F:** PWM + Alarm Low + Auto Restart
**4G:** PWM + Alarm High-Low+ Auto Restart
**4J:** PWM + F/G + Auto Restart

F/G = Frequency Generator, equivalent to Speed Sensor/ Tachometer

# STATOR OUTLET BLADE TECHNOLOGY (S.O.B.)

## ADVANTAGES

- Able to streamline the fluid direction
- Increase fluid output static pressure(head)
- Improve motor efficiency

## DISADVANTAGES

Noise levels (dBA) are increased 5 to 10 percent when compared to a similar size blade.

## STATIC PRESSURE IMPROVEMENT

The sophisticated computer-designed geometry profile of stator blade not only reduces turbulent vortex caused by fan blades, but also streamlines the fluid flow with an improved static head.

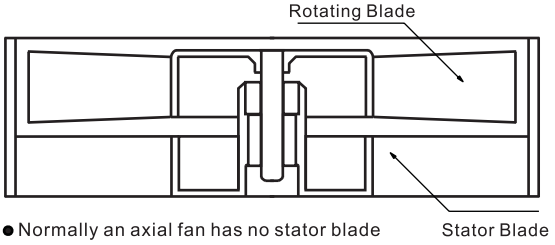
## PRINCIPLE

The angle of a regular rotor blade creates a convection vortex in the air stream. The unique design of the stator blade reduces the vortex turbulence and streamlines the axial quantity flow, and thereby improving the static head and efficiency of the motor.

## AVAILABLE MODELS

| Cooltron S.O.B. Fan | | | Max. Air Flow (CFM) | | Max. Static Pressure (mm-$H_2O$) | |
|---|---|---|---|---|---|---|
| Page | Part No. | Fan Size | S.O.B. Fan | Standard Fan | S.O.B. Fan | Standard Fan |
| P.23 | FD4028-82 | 40x40x28mm | 23.80 | 11.00~13.20 | 25.80 | 6.40~11.60 |
| P.24 | FD4028-85 | 40x40x28mm | 26.80 | | 70.90 | |
| P.52 | FD6038-81 | 60x60x38mm | 50.60 | N/A | 18.00 | N/A |
| P.58 | FD7038-81 | 70x70x38mm | 64.70 | | 13.90 | |
| P.75 | FD8038-81 | 80x80x38mm | 91.90 | | 18.30 | |
| P.76 | FD8038-85 | 80x80x38mm | 136.50 | | 50.70 | |
| P.82 | FD9238-81 | 92x92x38mm | 127.20 | 57.90~79.60 | 14.60 | 5.00~6.60 |
| P.83 | FD9238-85 | 92x92x38mm | 193.40 | | 53.00 | |
| P.89 | FD1238-63 | 120x120x38mm | 287.20 | 121.00~181.00 | 47.60 | 13.40~24.70 |
| P.92 | FD1238-85 | 120x120x38mm | 275.30 | | 48.70 | |

## CONSTRUCTION OF S.O.B. FAN




● Normally an axial fan has no stator blade

S.O.B. Fan

Standard Fan

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 4 g Packing: 400PCS/CTN

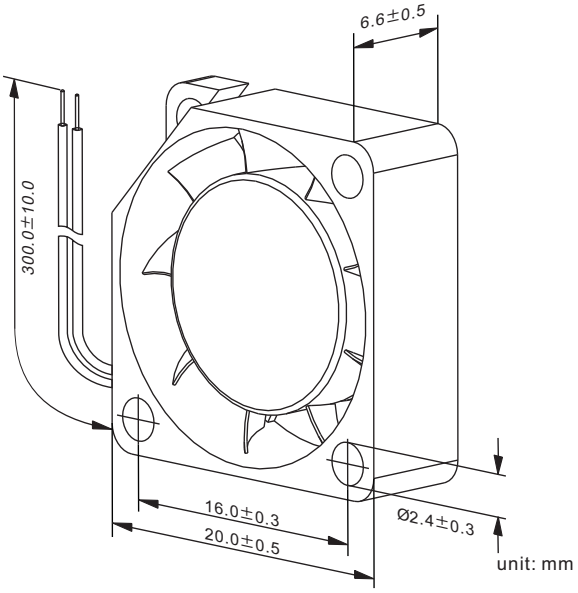
SS SF

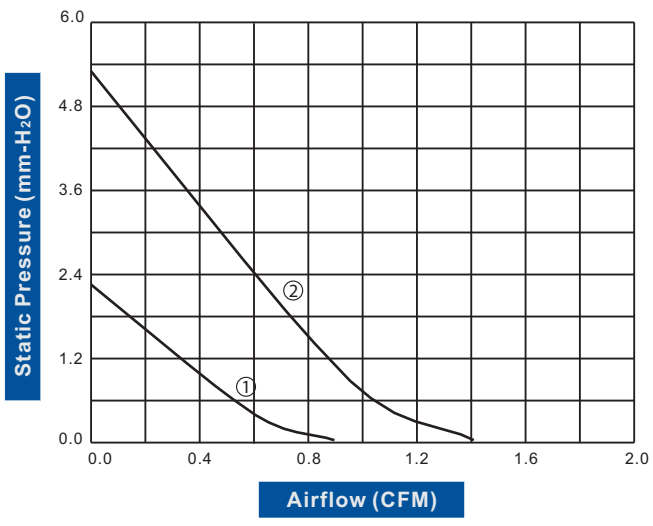
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD2006S05W5-71 | ★ | 5 | 4.0~5.5 | 0.90 | 2.30 | 26.40 | 10,000 | 90 | 0.45 | S | ① |
| FD2006S05W7-71 | ★ | 5 | 4.0~5.5 | 1.40 | 5.30 | 39.10 | 15,000 | 140 | 0.70 | S | ② |
| FD2006S12W5-71 | ★ | 12 | 10.8-13.2 | 0.90 | 2.30 | 26.40 | 10,000 | 100 | 1.20 | S | ① |
| FD2006S12W7-71 | ★ | 12 | 10.8-13.2 | 1.40 | 5.30 | 39.10 | 15,000 | 110 | 1.32 | S | ② |

- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 6 g Packing: 400PCS/CTN

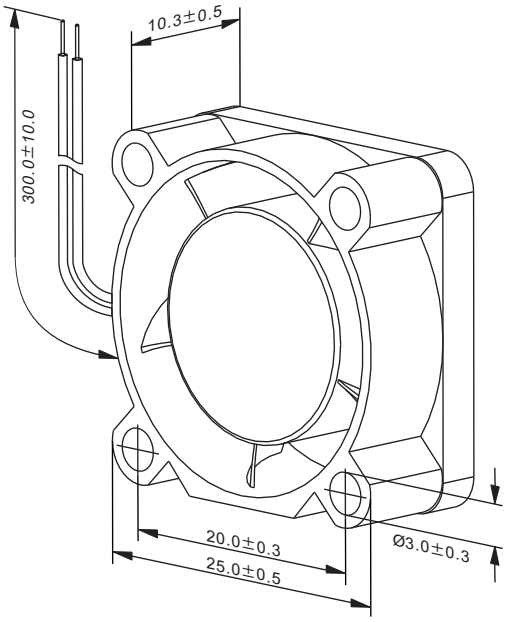
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD2510B05W3-71 | 5 | 4.0~5.5 | 1.70 | 2.20 | 19.90 | 7,000 | 100 | 0.50 | B,S | ① |
| FD2510B05W7-71 | 5 | 4.0~5.5 | 1.90 | 4.50 | 24.70 | 10,000 | 160 | 0.80 | B,S | ② |
| FD2510B05W9-71 | 5 | 4.0~5.5 | 3.10 | 7.70 | 33.00 | 13,000 | 200 | 1.00 | B,S | ③ |
| FD2510B12W3-71 | 12 | 10.8~13.2 | 1.70 | 2.20 | 19.90 | 7,000 | 60 | 0.72 | B,S | ① |
| FD2510B12W7-71 | 12 | 10.8~13.2 | 1.90 | 4.50 | 24.70 | 10,000 | 70 | 0.84 | B,S | ② |
| FD2510B12W9-71 | 12 | 10.8~13.2 | 3.10 | 7.70 | 33.00 | 13,000 | 130 | 1.56 | B,S | ③ |

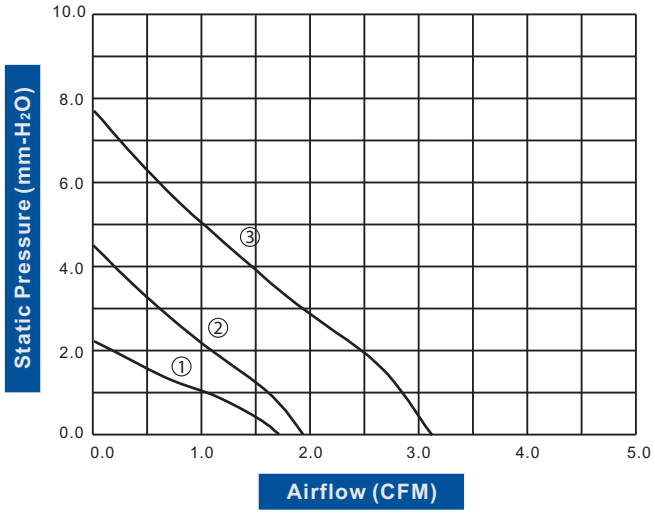
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L




unit: mm



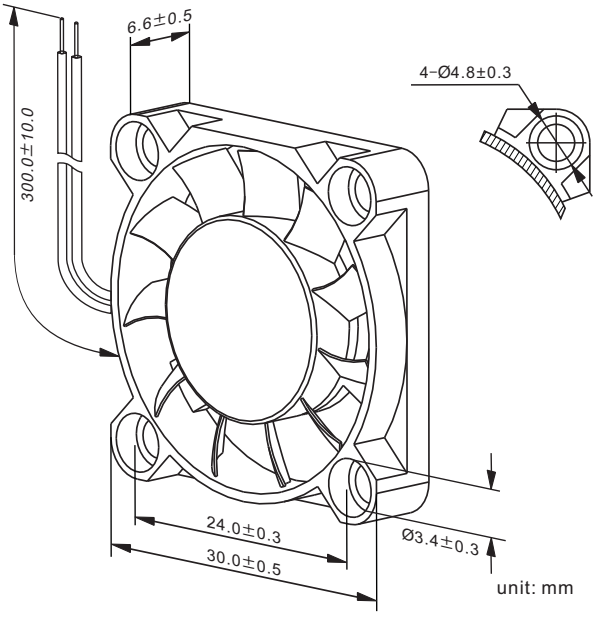
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 5 g Packing: 600PCS/CTN

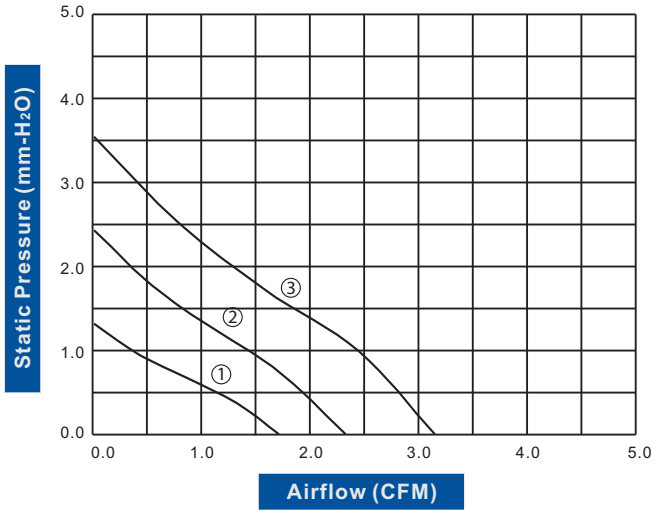
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD3006B05W5-71 | 5 | 4.0~5.5 | 1.70 | 1.30 | 22.00 | 6,000 | 120 | 0.60 | B,S | ① |
| FD3006B05W7-71 | 5 | 4.0~5.5 | 2.40 | 2.30 | 27.80 | 8,000 | 200 | 1.00 | B,S | ② |
| FD3006B12W7-71 | 12 | 10.8~13.2 | 2.40 | 2.30 | 27.80 | 8,000 | 100 | 1.20 | B,S | ② |
| FD3006B12W9-71 | 12 | 10.8~13.2 | 3.10 | 3.50 | 31.50 | 10,000 | 120 | 1.44 | B,S | ③ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice



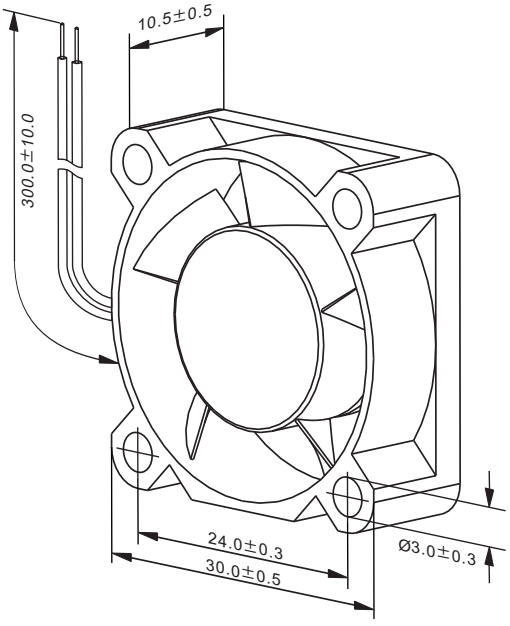
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 7 g Packing: 600PCS/CTN

SS SF

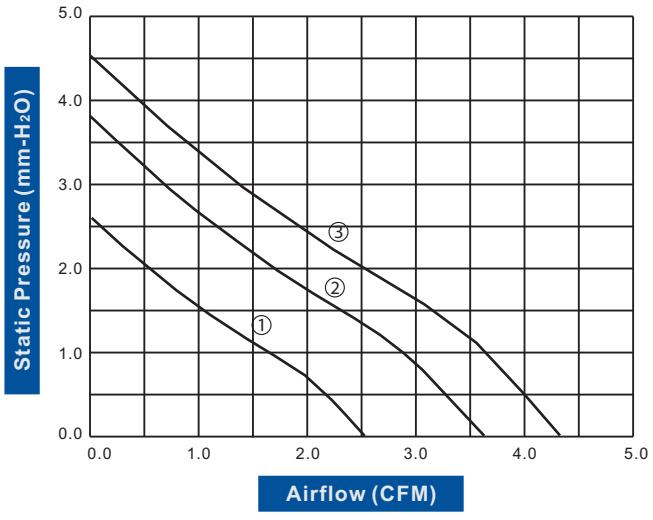
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD3010B05W3-71 | 5 | 4.0~5.5 | 2.50 | 2.60 | 19.00 | 5,500 | 100 | 0.50 | B,L,S | ① |
| FD3010B05W7-71 | 5 | 4.0~5.5 | 3.60 | 3.80 | 22.90 | 8,000 | 180 | 0.90 | B,L,S | ② |
| FD3010B05W9-71 | 5 | 4.0~5.5 | 4.30 | 4.50 | 28.00 | 9,500 | 200 | 1.00 | B,L,S | ③ |
| FD3010B12W3-71 | 12 | 10.8~13.2 | 2.50 | 2.60 | 19.00 | 5,500 | 60 | 0.72 | B,L,S | ① |
| FD3010B12W7-71 | 12 | 10.8~13.2 | 3.60 | 3.80 | 22.90 | 8,000 | 110 | 1.32 | B,L,S | ② |
| FD3010B12W9-71 | 12 | 10.8~13.2 | 4.30 | 4.50 | 28.00 | 9,500 | 120 | 1.44 | B,L,S | ③ |

- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice




unit: mm



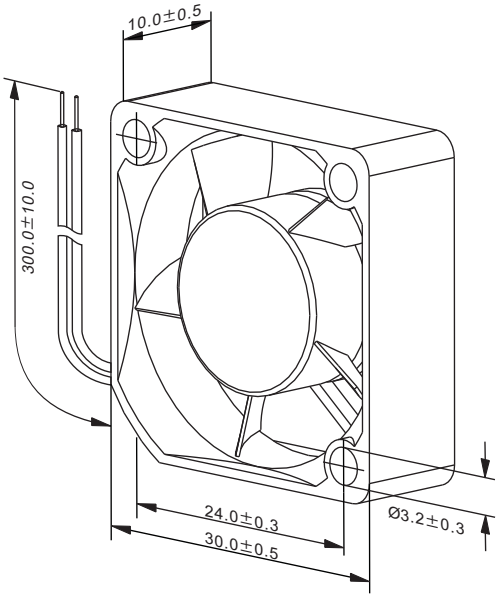
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 8 g Packing: 600PCS/CTN

ES SF

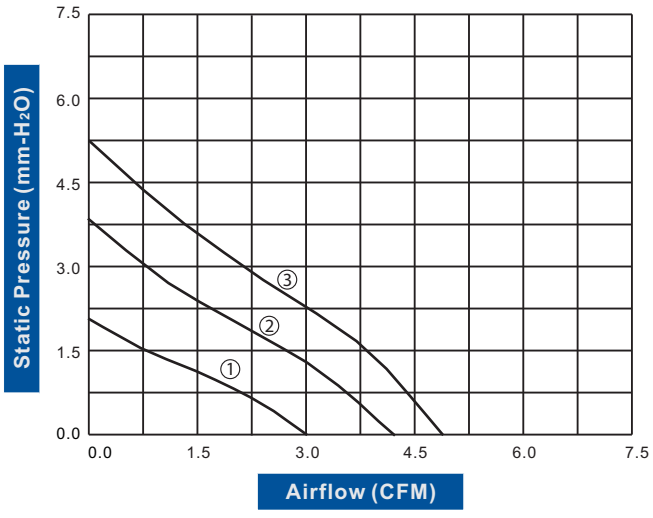
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD3010B05W3-82 | 5 | 4.5~5.5 | 3.00 | 2.00 | 13.80 | 6,000 | 110 | 0.55 | B,S | ① |
| FD3010B05W5-82 | 5 | 4.5~5.5 | 4.10 | 3.80 | 23.60 | 8,500 | 140 | 0.70 | B,S | ② |
| FD3010B05W7-82 | 5 | 4.5~5.5 | 4.90 | 5.20 | 28.10 | 10,000 | 190 | 0.95 | B,S | ③ |
| FD3010B12W3-82 | 12 | 10.8~13.8 | 3.00 | 2.00 | 13.80 | 6,000 | 60 | 0.72 | B,S | ① |
| FD3010B12W5-82 | 12 | 9.0~13.8 | 4.10 | 3.80 | 23.60 | 8,500 | 100 | 1.20 | B,S | ② |
| FD3010B12W7-82 | 12 | 9.0~13.8 | 4.90 | 5.20 | 28.10 | 10,000 | 140 | 1.68 | B,S | ③ |

- For "Sleeve" bearing versions, change the "B" in the model number to "S".

Specifications are subject to change without notice




unit: mm



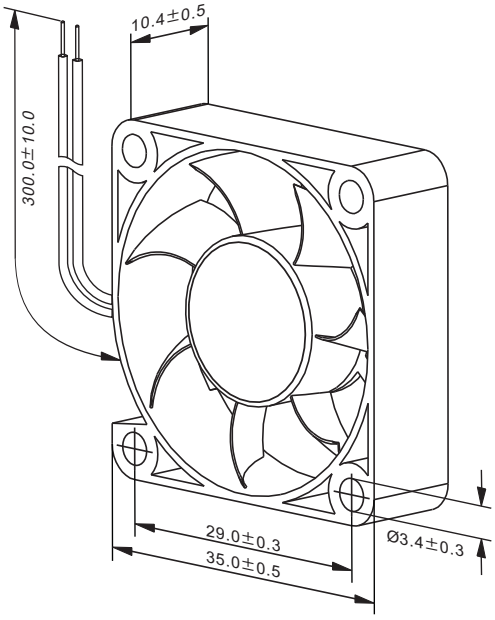
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 9 g Packing: 400PCS/CTN

SS SF

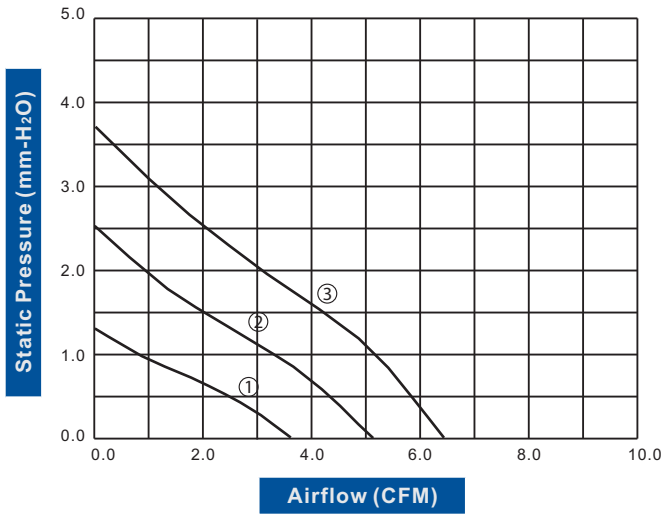
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD3510B05W3-71 | 5 | 4.0~5.5 | 3.60 | 1.30 | 20.00 | 5,000 | 130 | 0.65 | B,L,S | ① |
| FD3510B05W5-71 | 5 | 4.0~5.5 | 5.10 | 2.50 | 25.50 | 7,000 | 220 | 1.10 | B,L,S | ② |
| FD3510B05W7-71 | 5 | 4.0~5.5 | 6.40 | 3.70 | 31.90 | 9,000 | 230 | 1.15 | B,L,S | ③ |
| FD3510B12W3-71 | 12 | 10.8-13.2 | 3.60 | 1.30 | 20.00 | 5,000 | 80 | 0.96 | B,L,S | ① |
| FD3510B12W5-71 | 12 | 10.8-13.2 | 5.10 | 2.50 | 25.50 | 7,000 | 110 | 1.32 | B,L,S | ② |
| FD3510B12W7-71 | 12 | 10.8-13.2 | 6.40 | 3.70 | 31.90 | 9,000 | 140 | 1.68 | B,L,S | ③ |

- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice




unit: mm



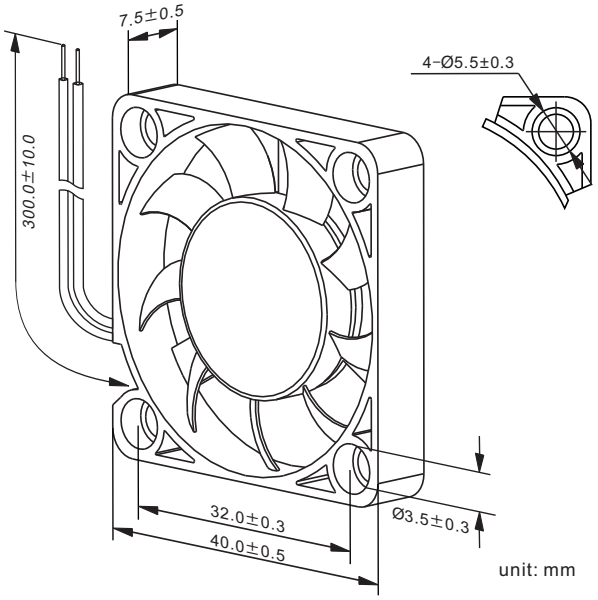
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 11 g Packing: 400PCS/CTN

SS SF

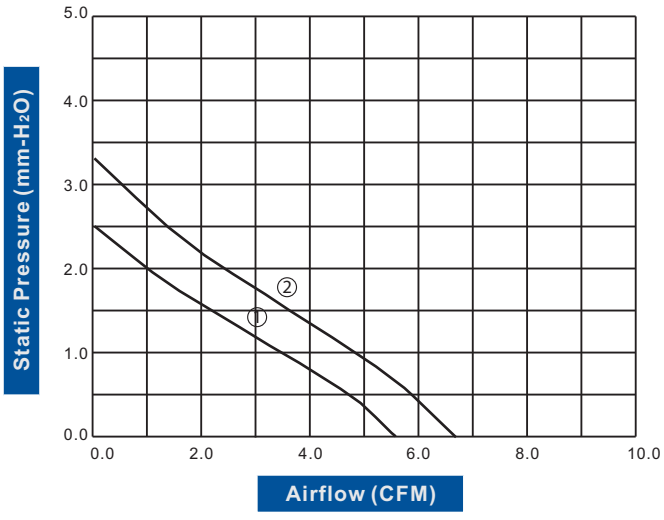
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4007B05W5-71 | 5 | 4.0~5.5 | 5.50 | 2.50 | 29.50 | 6,500 | 230 | 1.15 | B,S | ① |
| FD4007B05W7-71 | 5 | 4.0~5.5 | 6.60 | 3.30 | 33.30 | 7,500 | 250 | 1.25 | B,S | ② |
| FD4007B12W5-71 | 12 | 10.8-13.2 | 5.50 | 2.50 | 29.50 | 6,500 | 110 | 1.32 | B,S | ① |
| FD4007B12W7-71 | 12 | 10.8-13.2 | 6.60 | 3.30 | 33.30 | 7,500 | 130 | 1.56 | B,S | ② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 13 g Packing: 400PCS/CTN

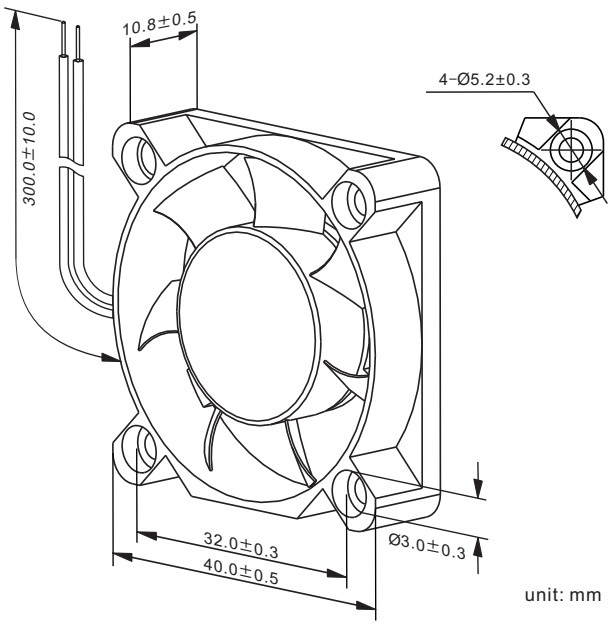
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4010B05W3-71 | 5 | 4.0~5.5 | 4.50 | 2.40 | 20.80 | 4,200 | 80 | 0.40 | B,L,S | ① |
| FD4010B05W5-71 | 5 | 4.0~5.5 | 5.70 | 2.40 | 24.50 | 5,400 | 120 | 0.60 | B,L,S | ② |
| FD4010B05W7-71 | 5 | 4.0~5.5 | 6.50 | 3.40 | 25.90 | 6,000 | 160 | 0.80 | B,L,S | ③ |
| FD4010B12W3-71 | 12 | 10.8~13.2 | 4.50 | 2.40 | 20.80 | 4,200 | 50 | 0.60 | B,L,S | ① |
| FD4010B12W5-71 | 12 | 10.8~13.2 | 5.70 | 2.40 | 24.50 | 5,400 | 60 | 0.72 | B,L,S | ② |
| FD4010B12W7-71 | 12 | 10.8~13.2 | 6.50 | 3.40 | 25.90 | 6,000 | 70 | 0.84 | B,L,S | ③ |
| FD4010B24W3-71 | 24 | 17.0~28.0 | 4.50 | 2.40 | 20.80 | 4,200 | 50 | 1.20 | B,L,S | ① |
| FD4010B24W5-71 | 24 | 17.0~28.0 | 5.70 | 2.40 | 24.50 | 5,400 | 60 | 1.44 | B,L,S | ② |
| FD4010B24W7-71 | 24 | 17.0~28.0 | 6.50 | 3.40 | 25.90 | 6,000 | 70 | 1.68 | B,L,S | ③ |

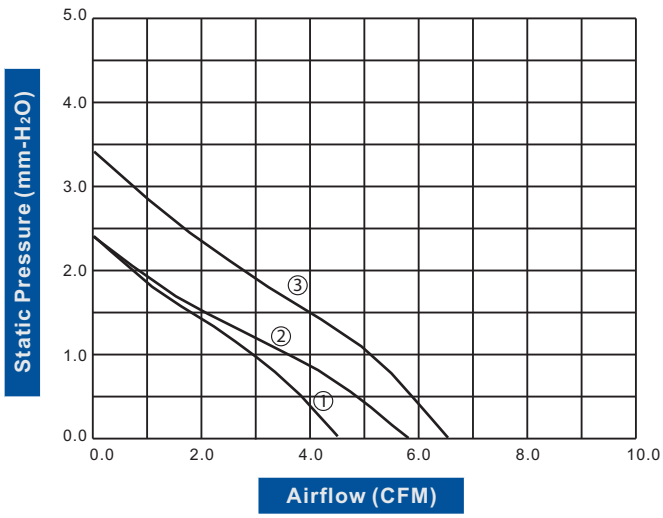
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 11 g Packing: 400PCS/CTN

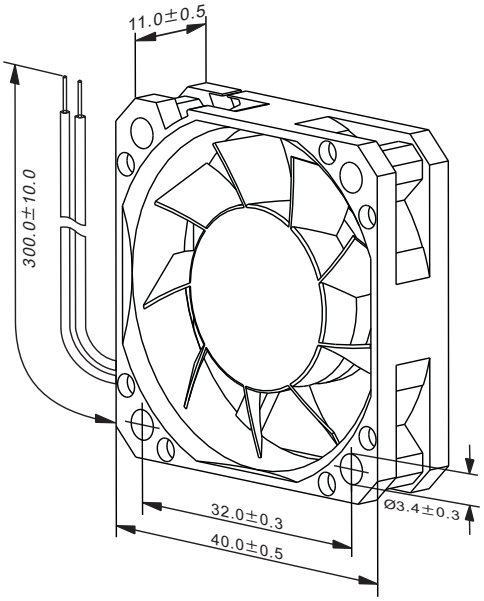
ES SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4010B12W3-75 | 12 | 7.0~13.8 | 4.50 | 2.20 | 23.10 | 4,600 | 70 | 0.84 | B,S | ① |
| FD4010B12W5-75 | 12 | 7.0~13.8 | 5.40 | 2.90 | 27.80 | 5,500 | 90 | 1.08 | B,S | ② |
| FD4010B12W7-75 | 12 | 7.0~13.8 | 6.40 | 4.10 | 30.50 | 6,400 | 100 | 1.20 | B,S | ③ |
| FD4010B12W9-75 | 12 | 7.0~13.8 | 7.30 | 5.10 | 33.40 | 7,300 | 120 | 1.44 | B,S | ④ |
| FD4010B12W11-75 | 12 | 7.0~13.8 | 8.30 | 6.50 | 36.20 | 8,200 | 130 | 1.56 | B,S | ⑤ |
| FD4010B24W3-75 | 24 | 12.0~27.6 | 4.50 | 2.20 | 23.10 | 4,600 | 60 | 1.44 | B,S | ① |
| FD4010B24W5-75 | 24 | 12.0~27.6 | 5.40 | 2.90 | 27.80 | 5,500 | 70 | 1.68 | B,S | ② |
| FD4010B24W7-75 | 24 | 12.0~27.6 | 6.40 | 4.10 | 30.50 | 6,400 | 80 | 1.92 | B,S | ③ |
| FD4010B24W9-75 | 24 | 12.0~27.6 | 7.30 | 5.10 | 33.40 | 7,300 | 90 | 2.16 | B,S | ④ |
| FD4010B24W11-75 | 24 | 12.0~27.6 | 8.30 | 6.50 | 36.20 | 8,200 | 100 | 2.40 | B,S | ⑤ |

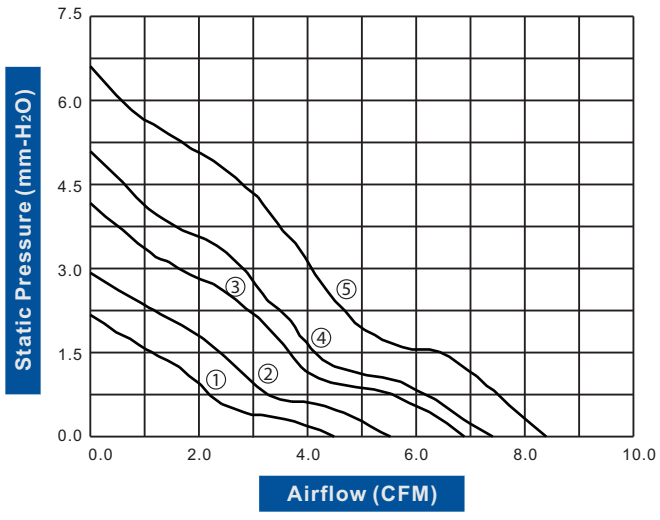
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



# DC AXIAL FAN 40x40x10mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 11 g **Packing:** 400PCS/CTN

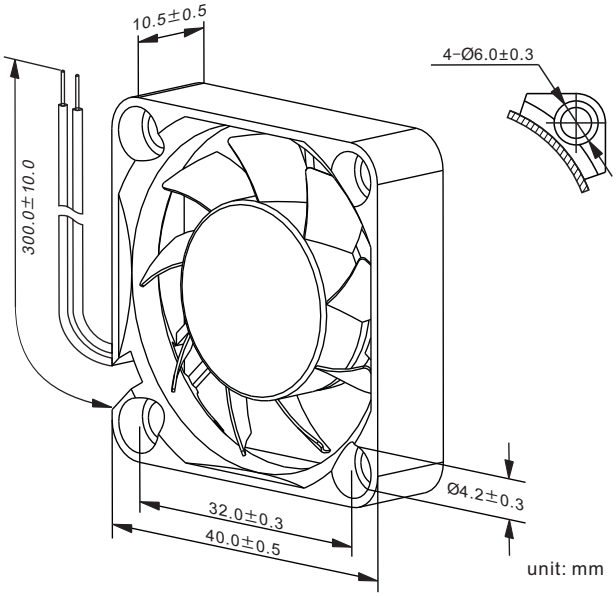
ES IP SF

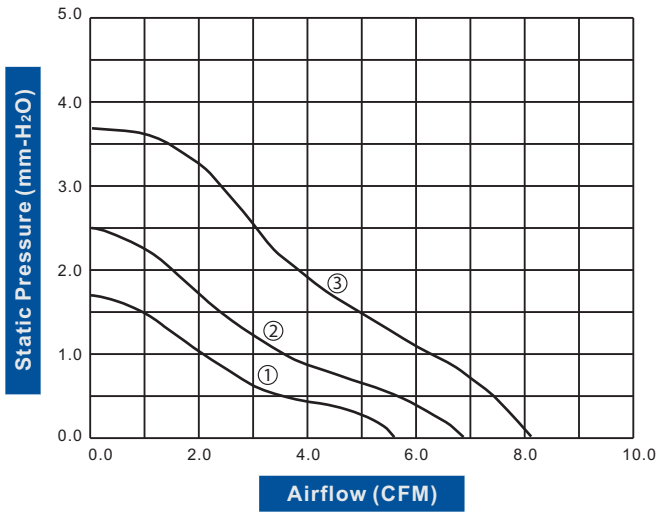
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4010B05W3-81 | 5 | 4.5~6.0 | 5.50 | 1.70 | 19.20 | 4,000 | 90 | 0.45 | B,S | ① |
| FD4010B05W5-81 | 5 | 4.5~6.0 | 6.80 | 2.50 | 25.10 | 5,000 | 130 | 0.65 | B,S | ② |
| FD4010B05W7-81 | 5 | 4.5~6.0 | 8.10 | 3.70 | 28.60 | 6,000 | 250 | 1.25 | B,S | ③ |
| FD4010B12W3-81 | 12 | 9.0~13.8 | 5.50 | 1.7 | 19.20 | 4,000 | 50 | 0.60 | B,S | ① |
| FD4010B12W5-81 | 12 | 6.0~13.8 | 6.80 | 2.50 | 25.10 | 5,000 | 80 | 0.96 | B,S | ② |
| FD4010B12W7-81 | 12 | 6.0~13.8 | 8.10 | 3.70 | 28.60 | 6,000 | 120 | 1.44 | B,S | ③ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H



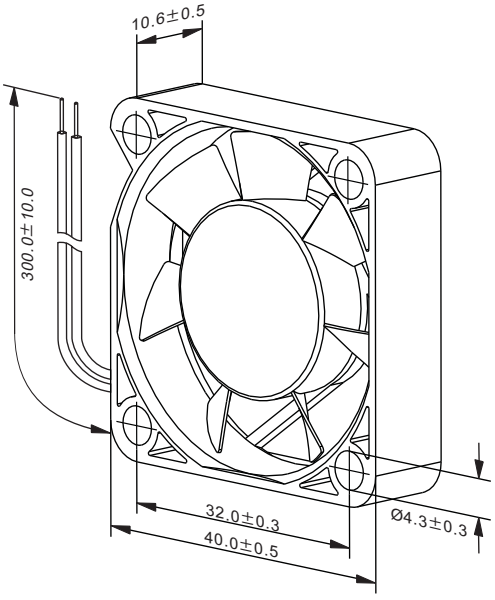
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 14 g Packing: 400PCS/CTN

ES SF

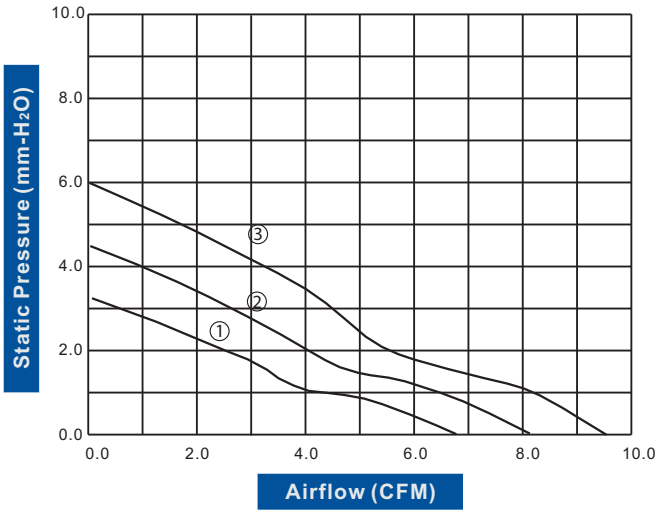
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4010B05W3-83 | 5 | 4.0~5.75 | 6.80 | 3.20 | 26.10 | 5,600 | 110 | 0.55 | B,F | ① |
| FD4010B05W5-83 | 5 | 4.0~5.75 | 8.10 | 4.50 | 30.50 | 6,600 | 160 | 0.80 | B,F | ② |
| FD4010B12W3-83 | 12 | 6.0~13.8 | 6.80 | 3.20 | 26.10 | 5,600 | 80 | 0.96 | B,F | ① |
| FD4010B12W5-83 | 12 | 6.0~13.8 | 8.10 | 4.50 | 30.50 | 6,600 | 100 | 1.20 | B,F | ② |
| FD4010B12W7-83 | 12 | 6.0~13.8 | 9.40 | 6.00 | 35.00 | 7,700 | 120 | 1.44 | B,F | ③ |

- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 40x40x10mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 17 g Packing: 400PCS/CTN

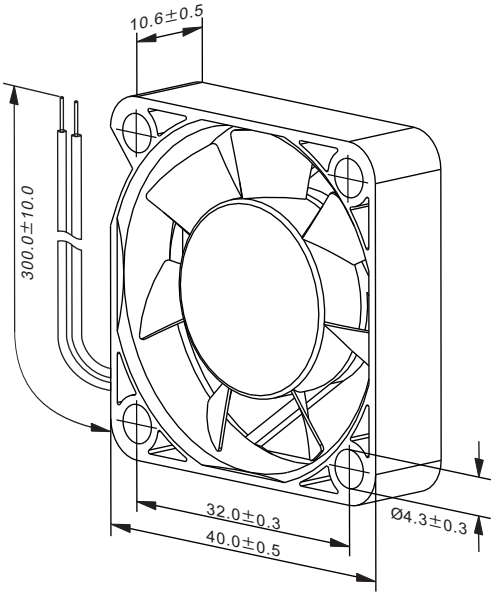
ES SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD4010B05W3-84 | ★ | 5 | 4.0~5.75 | 7.70 | 4.40 | 28.10 | 6,400 | 80 | 0.40 | B,F | ① |
| FD4010B05W5-84 | ★ | 5 | 4.0~5.75 | 9.30 | 6.10 | 32.50 | 7,500 | 130 | 0.65 | B,F | ② |
| FD4010B05W7-84 | ★ | 5 | 4.0~5.75 | 10.20 | 7.30 | 35.00 | 8,300 | 160 | 0.80 | B,F | ③ |
| FD4010B12W3-84 | ★▲ | 12 | 6.0~13.8 | 7.70 | 4.40 | 28.10 | 6,400 | 60 | 0.72 | B,F | ① |
| FD4010B12W5-84 | ★▲ | 12 | 6.0~13.8 | 9.30 | 6.10 | 32.50 | 7,500 | 70 | 0.84 | B,F | ② |
| FD4010B12W7-84 | ★▲ | 12 | 6.0~13.8 | 10.20 | 7.30 | 35.00 | 8,300 | 100 | 1.20 | B,F | ③ |

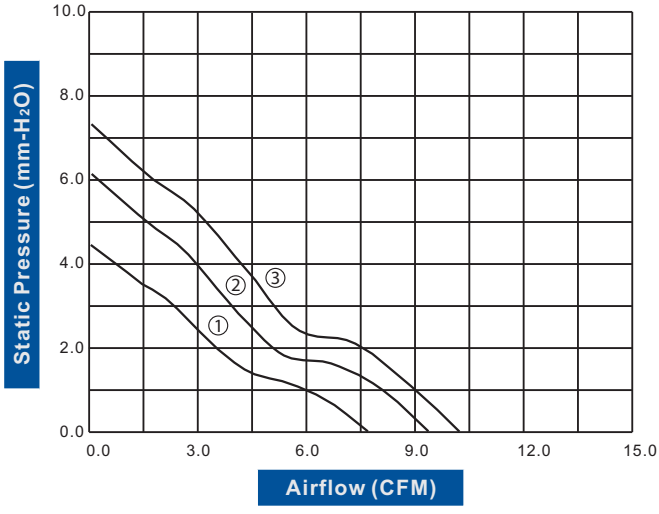
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 23 g Packing: 200PCS/CTN

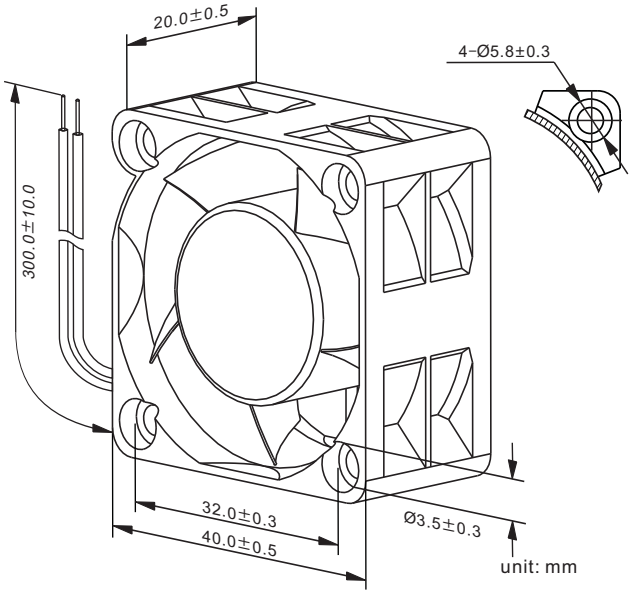
SS SF

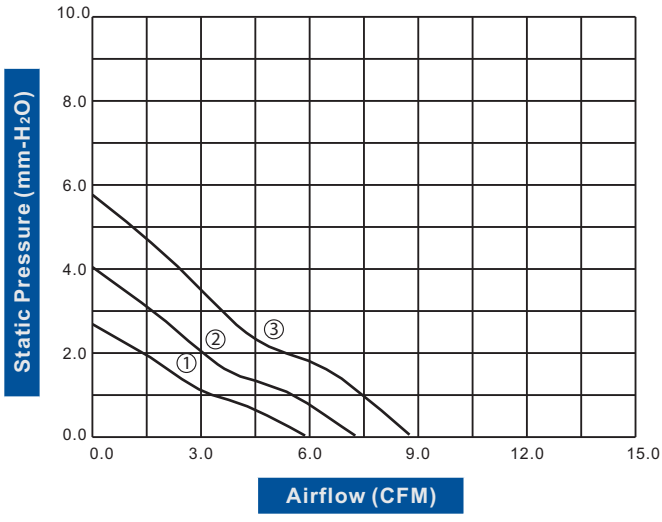
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4020B05W5-71 | 5 | 4.0~5.5 | 5.80 | 2.60 | 23.10 | 5,000 | 110 | 0.55 | B,L,S | ① |
| FD4020B05W7-71 | 5 | 4.0~5.5 | 7.20 | 4.00 | 28.60 | 6,200 | 160 | 0.80 | B,L,S | ② |
| FD4020B05W9-71 | 5 | 4.0~5.5 | 8.70 | 5.70 | 33.90 | 7,500 | 260 | 1.30 | B,L,S | ③ |
| FD4020B12W5-71 | 12 | 10.8~13.2 | 5.80 | 2.60 | 23.10 | 5,000 | 70 | 0.84 | B,L,S | ① |
| FD4020B12W7-71 | 12 | 10.8~13.2 | 7.20 | 4.00 | 28.60 | 6,200 | 110 | 1.32 | B,L,S | ② |
| FD4020B12W9-71 | 12 | 10.8~13.2 | 8.70 | 5.70 | 33.90 | 7,500 | 130 | 1.56 | B,L,S | ③ |
| FD4020B24W5-71 | 24 | 17.0~28.0 | 5.80 | 2.60 | 23.10 | 5,000 | 60 | 1.44 | B,L,S | ① |
| FD4020B24W7-71 | 24 | 17.0~28.0 | 7.20 | 4.00 | 28.60 | 6,200 | 80 | 1.92 | B,L,S | ② |
| FD4020B24W9-71 | 24 | 17.0~28.0 | 8.70 | 5.70 | 33.90 | 7,500 | 100 | 2.40 | B,L,S | ③ |

- For "Long Life" or "Sleeve" bearing versions, change the "B" in the model number to "L" or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM



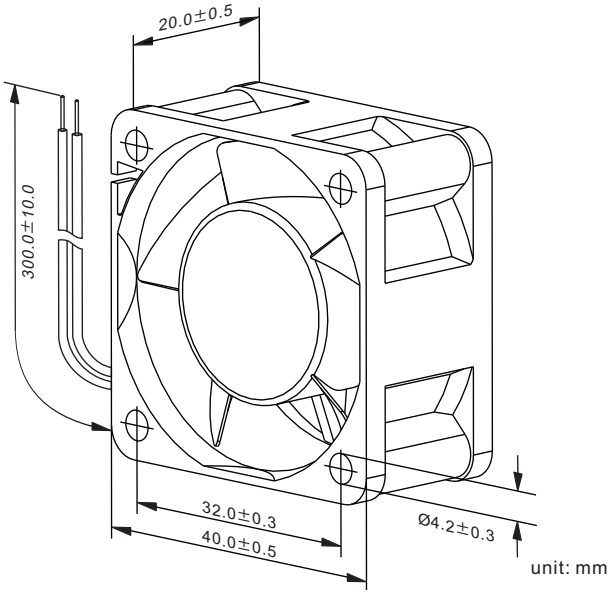
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 25 g **Packing:** 200PCS/CTN

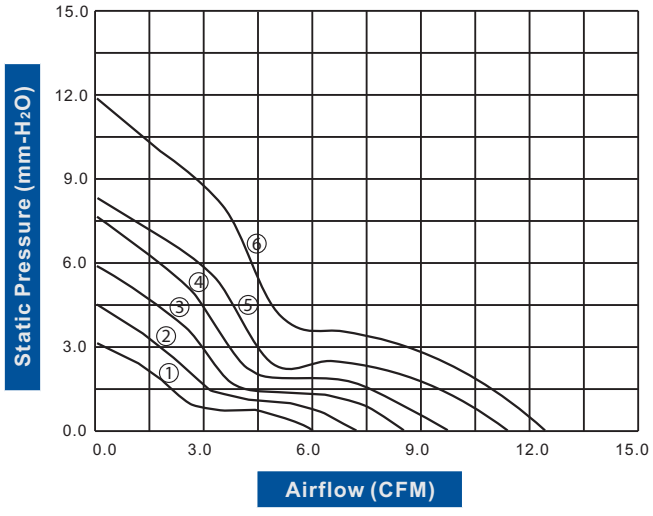
ES IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4020B05W1-82 | 5 | 4.5~5.5 | 6.00 | 3.10 | 17.20 | 5,000 | 70 | 0.35 | B,S | ① |
| FD4020B05W3-82 | 5 | 4.5~5.5 | 7.30 | 4.50 | 21.70 | 6,000 | 100 | 0.50 | B,S | ② |
| FD4020B05W5-82 | 5 | 4.5~5.5 | 8.50 | 6.00 | 26.10 | 7,000 | 140 | 0.70 | B,S | ③ |
| FD4020B05W7-82 ★ | 5 | 4.5~5.5 | 9.70 | 7.80 | 28.60 | 8,000 | 180 | 0.90 | B,S | ④ |
| FD4020B05W9-82 ★ | 5 | 4.5~5.5 | 11.30 | 8.40 | 32.50 | 9,000 | 230 | 1.15 | B,S | ⑤ |
| FD4020B12W1-82 | 12 | 8.0~13.8 | 6.00 | 3.10 | 17.20 | 5,000 | 50 | 0.60 | B,S | ① |
| FD4020B12W3-82 | 12 | 8.0~13.8 | 7.30 | 4.50 | 21.70 | 6,000 | 60 | 0.72 | B,S | ② |
| FD4020B12W5-82 | 12 | 8.0~13.8 | 8.50 | 6.00 | 26.10 | 7,000 | 80 | 0.96 | B,S | ③ |
| FD4020B12W7-82 ★ | 12 | 8.0~13.8 | 9.70 | 7.80 | 28.60 | 8,000 | 90 | 1.08 | B,S | ④ |
| FD4020B12W9-82 ★ | 12 | 8.0~13.8 | 11.30 | 8.40 | 32.50 | 9,000 | 100 | 1.20 | B,S | ⑤ |
| FD4020B12W11-82 ★ | 12 | 8.0~13.8 | 12.70 | 12.00 | 37.40 | 10,000 | 120 | 1.44 | B,S | ⑥ |

- For "Sleeve" bearing versions, change the "B" in the model number to "S" respectively.
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice



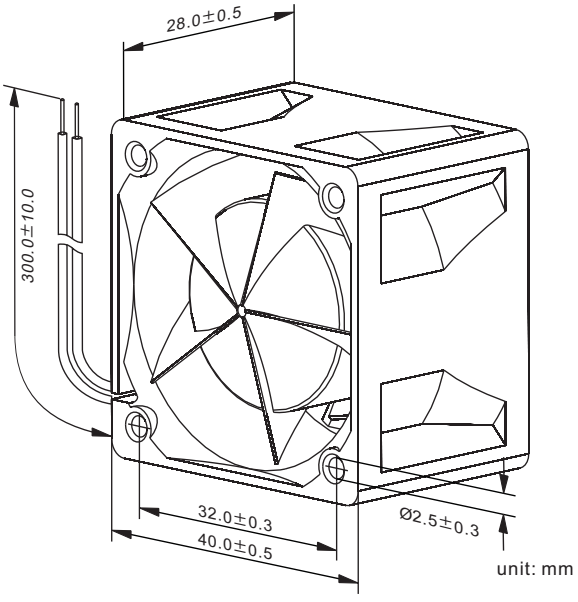
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 45 g Packing: 400PCS/CTN

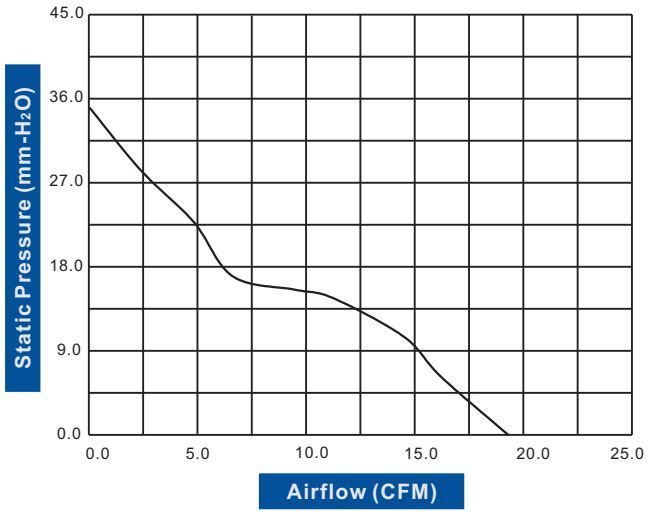
SS IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD4028B12W5-61 ★▲ | 12 | 6.0~13.8 | 18.90 | 35.60 | 52.20 | 16,000 | 65 | 7.80 | B | ① |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice



# DC AXIAL FAN
# 40x40x28mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 40 g Packing: 400PCS/CTN

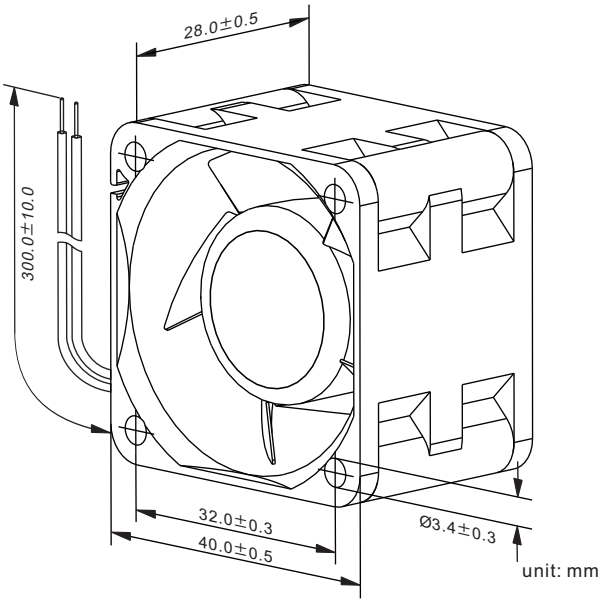
ES IP SF

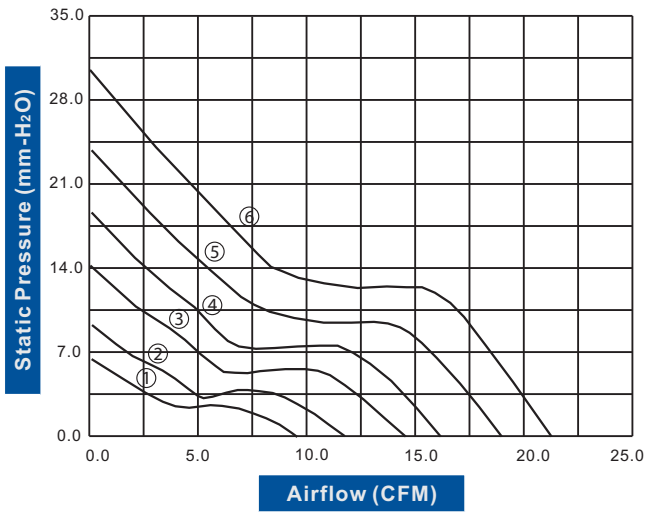
- **High Airflow**
- **High Static Pressure**

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD4028B12W1-82 | ★ | 12 | 6.0~13.8 | 9.60 | 6.80 | 33.00 | 6,500 | 60 | 0.72 | B | ① |
| FD4028B12W3-82 | ★ | 12 | 6.0~13.8 | 11.80 | 9.90 | 36.40 | 8,000 | 100 | 1.20 | B | ② |
| FD4028B12W5-82 | ★ | 12 | 6.0~13.8 | 14.10 | 14.10 | 41.90 | 9,500 | 200 | 2.40 | B | ③ |
| FD4028B12W7-82 | ★ | 12 | 6.0~13.8 | 16.60 | 18.90 | 45.80 | 11,000 | 240 | 2.88 | B | ④ |
| FD4028B12W9-82 | ★ | 12 | 6.0~13.8 | 19.20 | 24.20 | 48.80 | 12,500 | 380 | 4.56 | B | ⑤ |
| FD4028B12W11-82 | ★ | 12 | 6.0~13.8 | 21.60 | 31.00 | 50.20 | 14,000 | 480 | 5.76 | B | ⑥ |
| FD4028B24W3-82 | ★ | 24 | 12.0~27.6 | 11.80 | 9.90 | 36.40 | 8,000 | 60 | 1.44 | B | ② |
| FD4028B24W5-82 | ★ | 24 | 12.0~27.6 | 14.10 | 14.10 | 41.90 | 9,500 | 80 | 1.92 | B | ③ |
| FD4028B24W7-82 | ★ | 24 | 12.0~27.6 | 16.60 | 18.90 | 45.80 | 11,000 | 130 | 3.12 | B | ④ |

- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice



# DC AXIAL FAN
# 40x40x28mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 47 g Packing: 400PCS/CTN

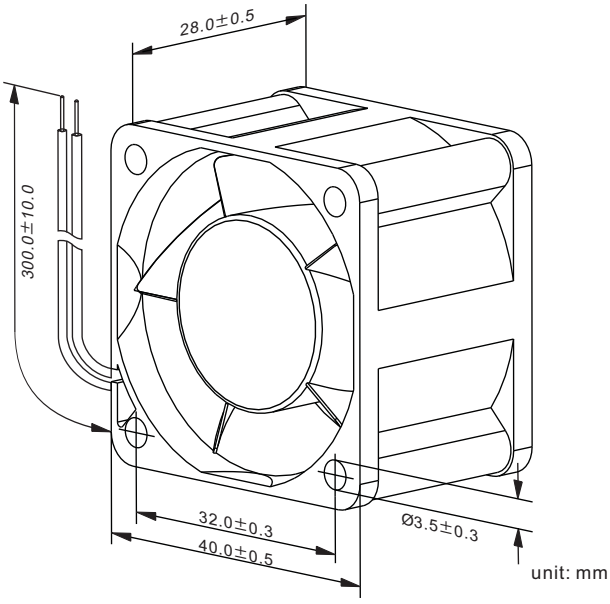
ES IP SF

- **High Airflow**
- **Extremely High Static Pressure**

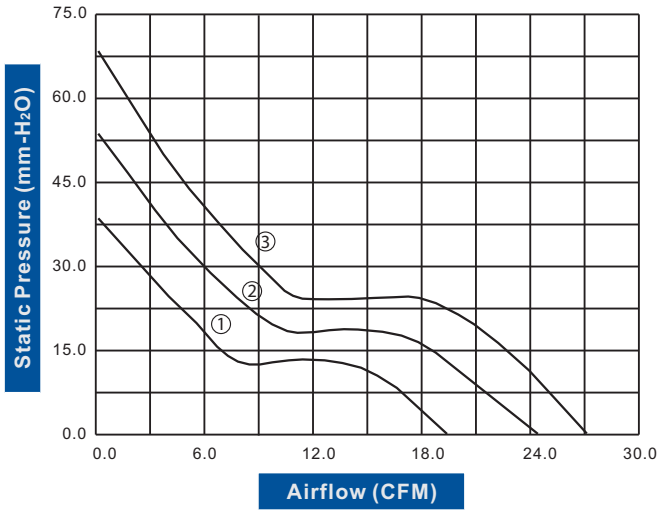
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD4028B12W3-85 | ★▲ | 12 | 6.0~13.8 | 19.30 | 38.10 | 51.70 | 14,600 | 460 | 5.52 | B | ① |
| FD4028B12W5-85 | ★▲ | 12 | 6.0~13.8 | 24.20 | 55.80 | 55.70 | 17,600 | 650 | 7.80 | B | ② |
| FD4028B12W7-85 | ★▲ | 12 | 6.0~13.8 | 26.80 | 70.90 | 58.60 | 20,000 | 810 | 9.72 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN 50x50x10mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 16 g **Packing:** 400PCS/CTN

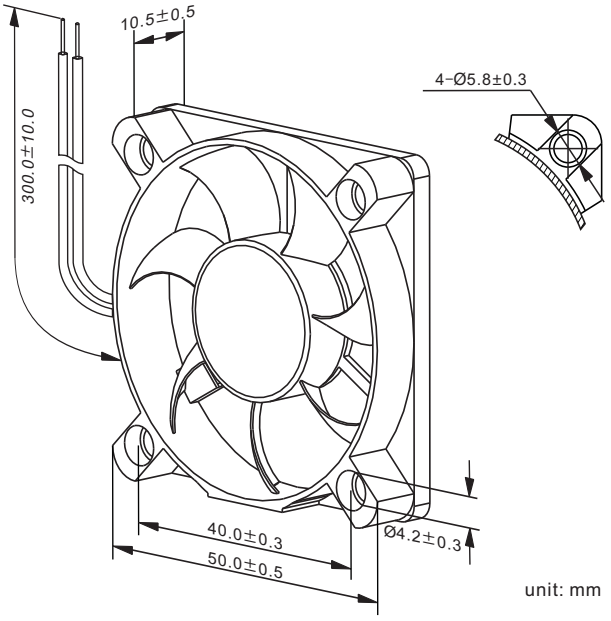
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD5010B05W3-71 | 5 | 4.0~5.5 | 7.40 | 1.80 | 20.50 | 3,500 | 120 | 0.60 | B,L,S | ① |
| FD5010B05W5-71 | 5 | 4.0~5.5 | 9.60 | 2.30 | 25.70 | 4,500 | 180 | 0.90 | B,L,S | ② |
| FD5010B05W7-71 | 5 | 4.0~5.5 | 11.20 | 2.70 | 29.70 | 5,300 | 220 | 1.10 | B,L,S | ③ |
| FD5010B12W3-71 | 12 | 10.8~13.2 | 7.40 | 1.80 | 20.50 | 3,500 | 60 | 0.72 | B,L,S | ① |
| FD5010B12W5-71 | 12 | 10.8~13.2 | 9.60 | 2.30 | 25.70 | 4,500 | 70 | 0.84 | B,L,S | ② |
| FD5010B12W7-71 | 12 | 10.8~13.2 | 11.20 | 2.70 | 29.70 | 5,300 | 130 | 1.56 | B,L,S | ③ |

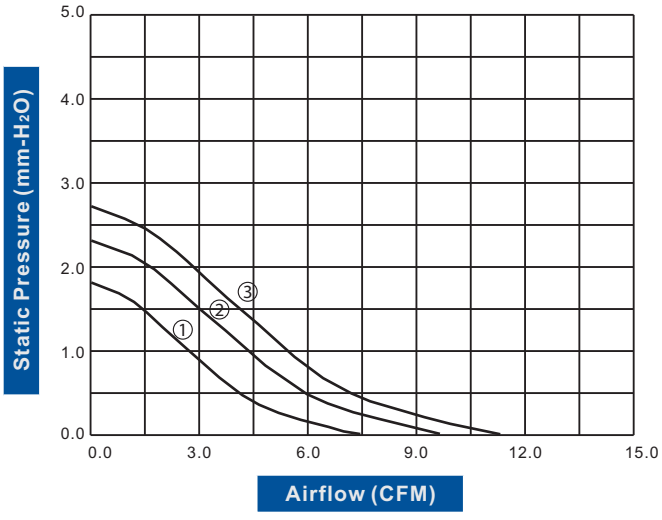
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 19 g Packing: 400PCS/CTN

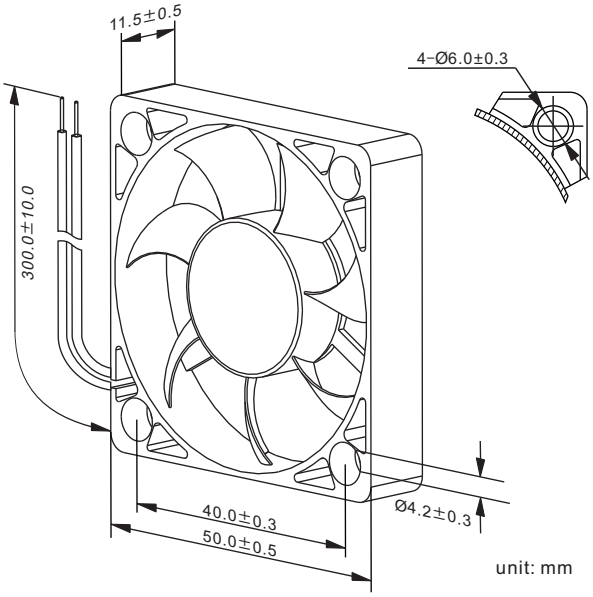
SS IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD5010B12W3-73 | 12 | 10.8~13.2 | 8.10 | 1.80 | 20.60 | 3,400 | 160 | 1.92 | B,S | ① |
| FD5010B12W5-73 | 12 | 10.8~13.2 | 10.50 | 2.80 | 25.20 | 4,200 | 250 | 3.00 | B,S | ② |
| FD5010B12W7-73A | 12 | 10.8~13.2 | 11.70 | 3.30 | 28.80 | 5,000 | 350 | 4.20 | B,S | ③ |
| FD5010B12W7-73B | 12 | 10.8~13.2 | 13.90 | 3.90 | 31.90 | 5,800 | 350 | 4.20 | B,S | ④ |

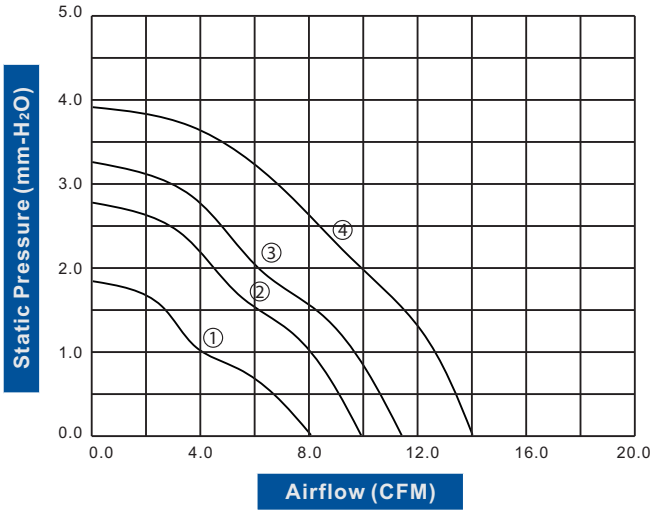
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 18 g Packing: 400PCS/CTN

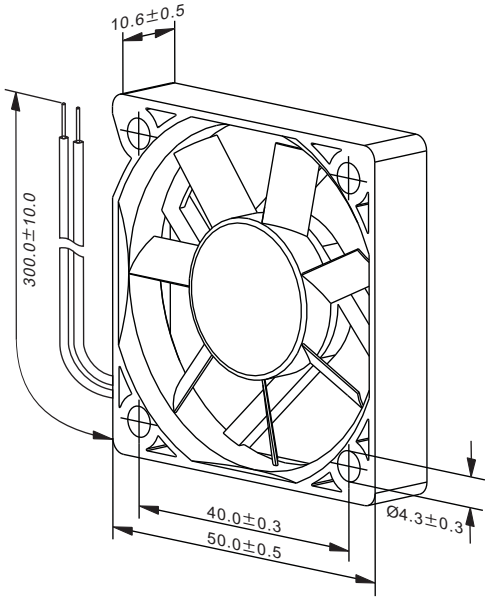
ES SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD5010B05W5-83 | 5 | 4.0~5.75 | 10.10 | 2.10 | 23.10 | 4,000 | 110 | 0.55 | B,F | ① |
| FD5010B05W7-83 | 5 | 4.0~5.75 | 12.10 | 2.90 | 28.10 | 4,700 | 180 | 0.90 | B,F | ② |
| FD5010B12W5-83 | 12 | 6.0~13.8 | 10.10 | 2.10 | 23.10 | 4,000 | 80 | 0.96 | B,F | ① |
| FD5010B12W7-83 | 12 | 6.0~13.8 | 12.10 | 2.90 | 28.10 | 4,700 | 100 | 1.20 | B,F | ② |
| FD5010B12W9-83 | 12 | 6.0~13.8 | 14.10 | 3.80 | 32.00 | 5,400 | 120 | 1.44 | B,F | ③ |

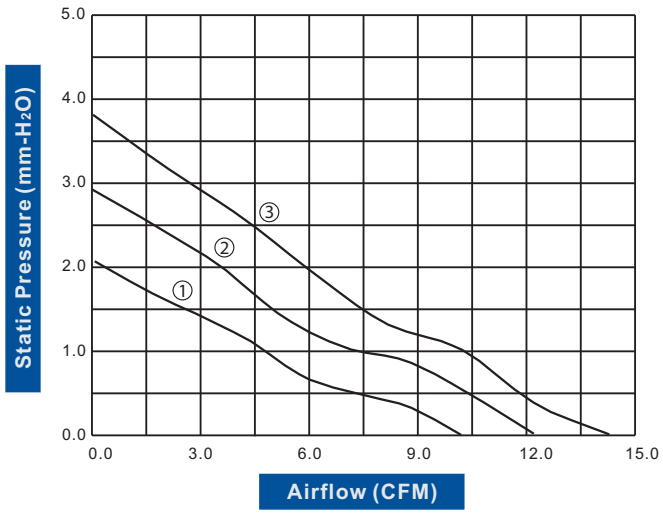
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



# DC AXIAL FAN
# 50x50x10mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 21 g **Packing:** 400PCS/CTN

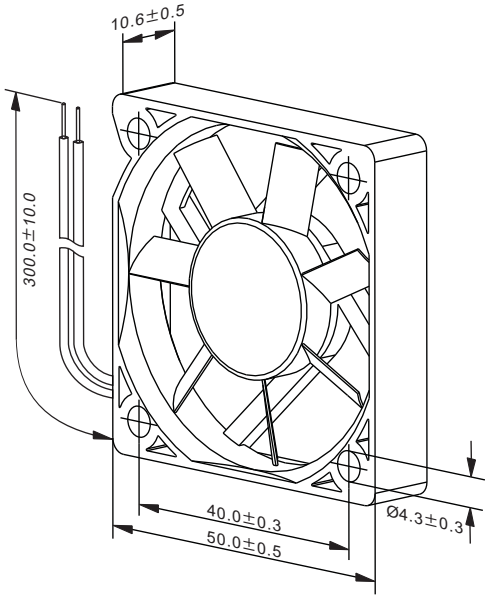
ES SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD5010B05W3-84 | ★ | 5 | 4.0~5.75 | 12.70 | 3.60 | 29.60 | 4,900 | 100 | 0.50 | B,F | ① |
| FD5010B05W5-84 | ★ | 5 | 4.0~5.75 | 14.80 | 4.40 | 33.00 | 5,600 | 160 | 0.80 | B,F | ② |
| FD5010B05W7-84 | ★ | 5 | 4.0~5.75 | 16.30 | 5.20 | 35.50 | 6,100 | 210 | 1.05 | B,F | ③ |
| FD5010B12W3-84 | ★▲ | 12 | 6.0~13.8 | 12.70 | 3.60 | 29.60 | 4,900 | 70 | 0.84 | B,F | ① |
| FD5010B12W5-84 | ★▲ | 12 | 6.0~13.8 | 14.80 | 4.40 | 33.00 | 5,600 | 90 | 1.08 | B,F | ② |
| FD5010B12W7-84 | ★▲ | 12 | 6.0~13.8 | 16.30 | 5.20 | 35.50 | 6,100 | 110 | 1.32 | B,F | ③ |

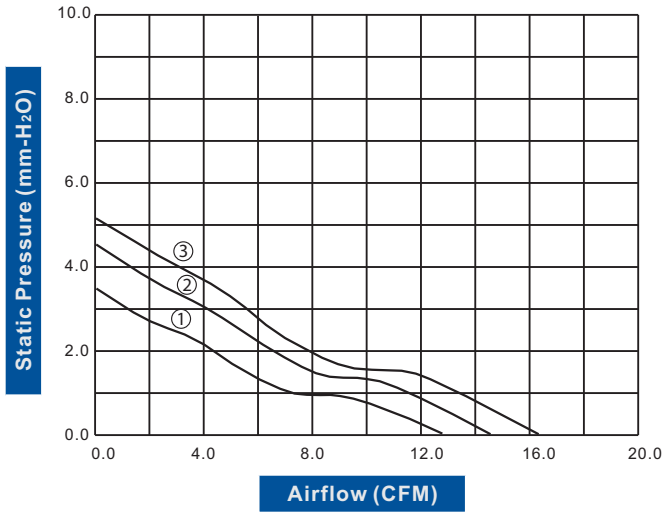
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 27 g Packing: 200PCS/CTN

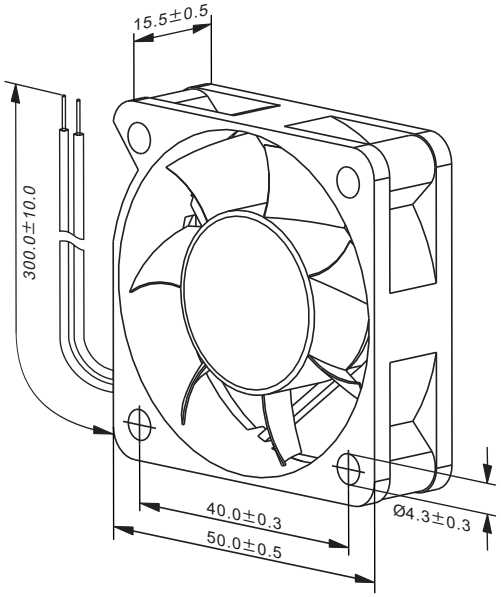
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD5015B05W5-71 | 5 | 4.0~5.5 | 5.00 | 0.60 | 18.50 | 2,000 | 120 | 0.60 | B,L,S | ① |
| FD5015B05W7-71 | 5 | 4.0~5.5 | 5.90 | 1.00 | 19.50 | 2,500 | 180 | 0.90 | B,L,S | ② |
| FD5015B05W9-71 | 5 | 4.0~5.5 | 7.70 | 1.40 | 21.80 | 3,000 | 220 | 1.10 | B,L,S | ③ |
| FD5015B12W5-71 | 12 | 10.8~13.2 | 7.70 | 1.40 | 21.80 | 3,000 | 100 | 1.20 | B,L,S | ③ |
| FD5015B12W7-71 | 12 | 10.8~13.2 | 8.40 | 1.70 | 25.00 | 3,500 | 120 | 1.44 | B,L,S | ④ |
| FD5015B12W9-71 | 12 | 10.8~13.2 | 8.90 | 2.00 | 28.40 | 4,000 | 120 | 1.44 | B,L,S | ⑤ |

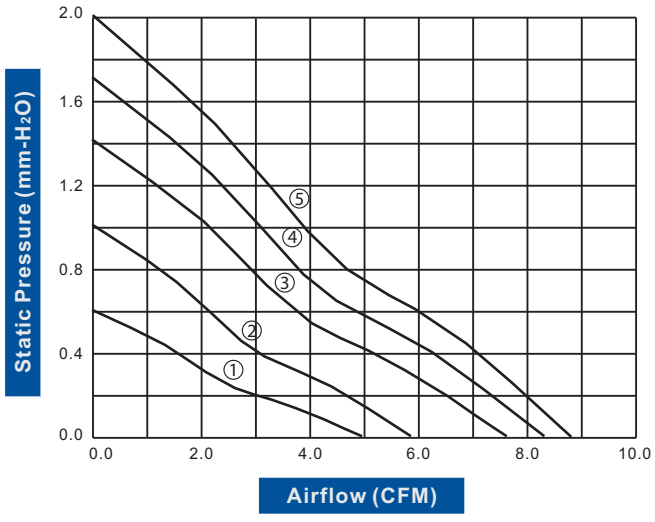
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



# DC AXIAL FAN
# 50x50x25mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 29 g **Packing:** 200PCS/CTN

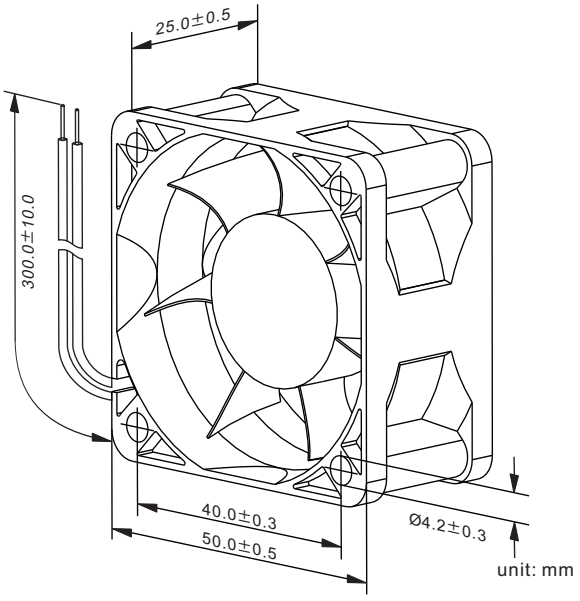
ES SF

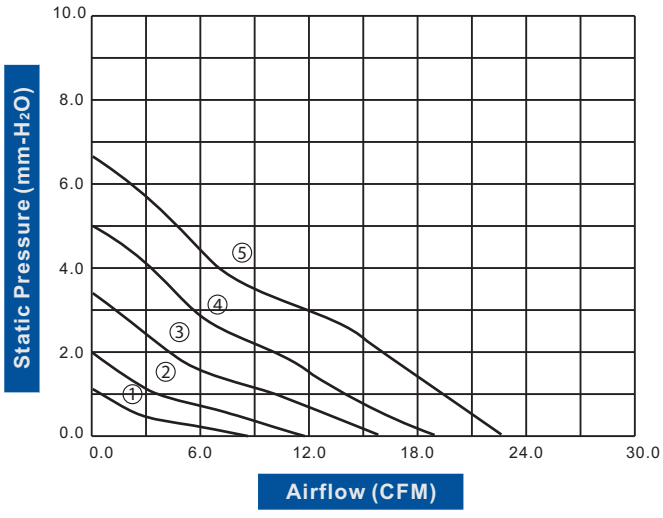
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD5025B12W1-81 | | 12 | 8.0~13.8 | 8.20 | 1.10 | 14.80 | 2,500 | 40 | 0.48 | B,S | ① |
| FD5025B12W3-81 | | 12 | 6.0~13.8 | 11.70 | 2.00 | 22.20 | 3,500 | 60 | 0.72 | B,S | ② |
| FD5025B12W5-81 | | 12 | 6.0~13.8 | 15.00 | 3.30 | 29.10 | 4,500 | 100 | 1.20 | B,S | ③ |
| FD5025B12W7-81 | | 12 | 6.0~13.8 | 18.60 | 5.00 | 34.00 | 5,500 | 160 | 1.92 | B,S | ④ |
| FD5025B12W9-81 | ★ | 12 | 6.0~13.8 | 22.40 | 6.70 | 38.40 | 6,500 | 290 | 3.48 | B | ⑤ |
| FD5025B24W7-81 | ★ | 24 | 12.0~27.6 | 18.60 | 5.00 | 34.00 | 5,500 | 110 | 2.64 | B,S | ④ |
| FD5025B24W9-81 | ★ | 24 | 12.0~25.2 | 22.40 | 6.70 | 38.40 | 6,500 | 190 | 4.56 | B | ⑤ |

- For "Long Life" or "Sleeve" bearing versions, change the "B" in the model number to "L" or "S" respectively.
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL PWM



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 24 g Packing: 300PCS/CTN

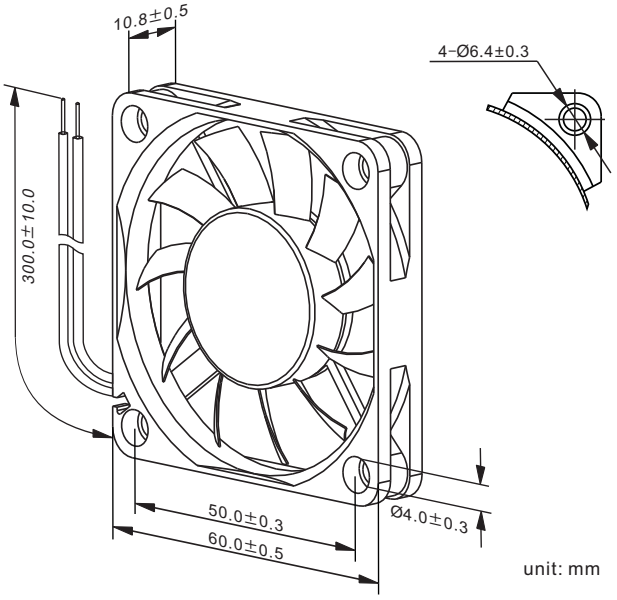
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6010B12W2-71 | 12 | 10.8~13.2 | 14.60 | 2.00 | 26.80 | 3,500 | 130 | 1.56 | B,L,S | ① |
| FD6010B12W3-71 | 12 | 10.8~13.2 | 18.00 | 2.90 | 31.20 | 4,200 | 170 | 2.04 | B,L,S | ② |
| FD6010B12W5-71 | 12 | 10.8~13.2 | 21.80 | 4.00 | 35.50 | 5,000 | 230 | 2.76 | B,L,S | ③ |

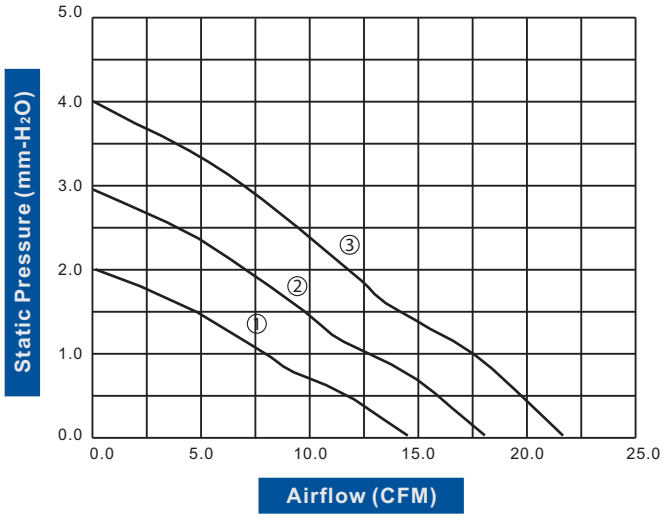
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 28 g Packing: 300PCS/CTN

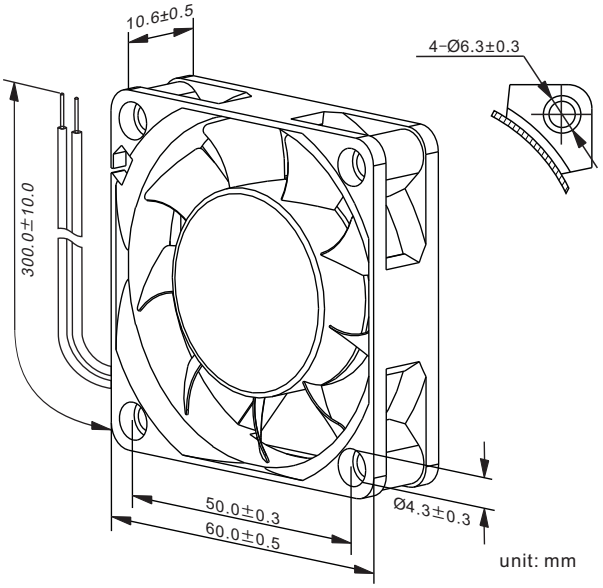
ES SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6010B05W3-83 | 5 | 4.0~5.75 | 13.70 | 1.90 | 25.10 | 3,100 | 110 | 0.55 | B,F | ① |
| FD6010B05W5-83 | 5 | 4.0~5.75 | 16.10 | 2.50 | 28.60 | 3,700 | 180 | 0.90 | B,F | ② |
| FD6010B05W7-83 | 5 | 4.0~5.75 | 18.40 | 3.20 | 32.00 | 4,200 | 300 | 1.50 | B,F | ③ |
| FD6010B12W5-83 | 12 | 6.0~13.8 | 16.10 | 2.50 | 28.60 | 3,700 | 110 | 1.32 | B,F | ② |
| FD6010B12W7-83 | 12 | 6.0~13.8 | 18.40 | 3.20 | 32.00 | 4,200 | 140 | 1.68 | B,F | ③ |

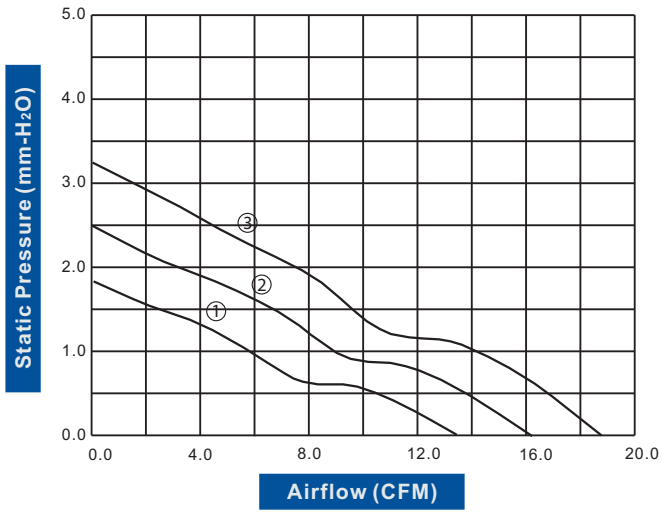
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



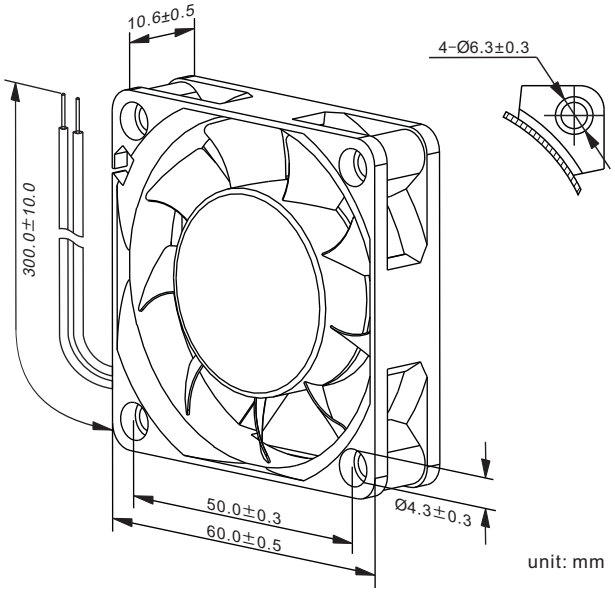
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 28 g Packing: 300PCS/CTN

ES SF

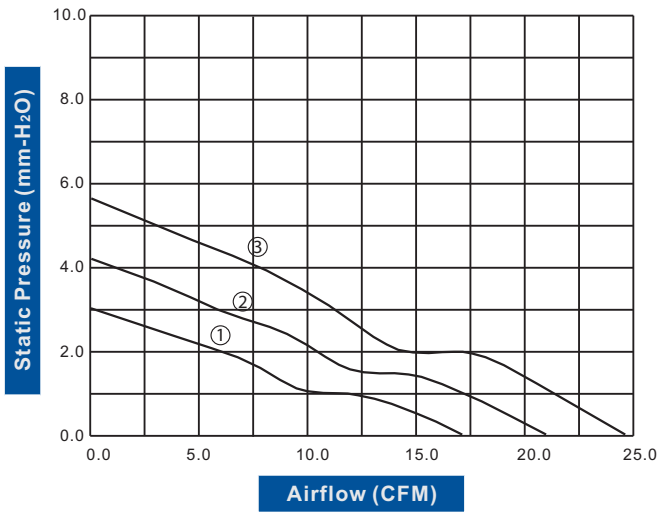
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD6010B05W3-84 | ★ | 5 | 4.0~5.50 | 17.20 | 3.10 | 30.50 | 4,000 | 180 | 0.90 | B,F | ① |
| FD6010B12W3-84 | ★▲ | 12 | 6.0~13.8 | 17.20 | 3.10 | 30.50 | 4,000 | 90 | 1.08 | B,F | ① |
| FD6010B12W5-84 | ★▲ | 12 | 6.0~13.8 | 21.00 | 4.20 | 35.50 | 4,800 | 150 | 1.80 | B,F | ② |
| FD6010B12W7-84 | ★▲ | 12 | 6.0~13.8 | 24.60 | 5.70 | 39.40 | 5,500 | 200 | 2.40 | B,F | ③ |

- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 33 g **Packing:** 300PCS/CTN

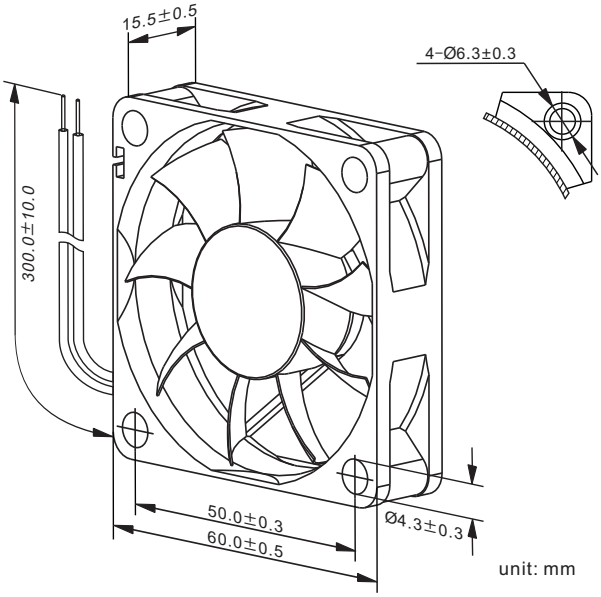
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6015B05W3-71 | 5 | 4.0~5.5 | 10.40 | 0.80 | 19.70 | 2,000 | 140 | 0.70 | B,L,S | ① |
| FD6015B05W5-71 | 5 | 4.0~5.5 | 12.70 | 1.10 | 21.80 | 2,500 | 200 | 1.00 | B,L,S | ③ |
| FD6015B05W7-71 | 5 | 4.0~5.5 | 15.60 | 1.60 | 26.00 | 3,000 | 260 | 1.30 | B,L,S | ⑤ |
| FD6015B12W3-71 | 12 | 10.8~13.2 | 10.90 | 0.90 | 20.60 | 2,200 | 80 | 0.96 | B,L,S | ② |
| FD6015B12W5-71 | 12 | 10.8~13.2 | 14.30 | 1.50 | 24.20 | 2,800 | 100 | 1.20 | B,L,S | ④ |
| FD6015B12W7-71 | 12 | 10.8~13.2 | 16.60 | 2.00 | 28.10 | 3,300 | 130 | 1.56 | B,L,S | ⑥ |

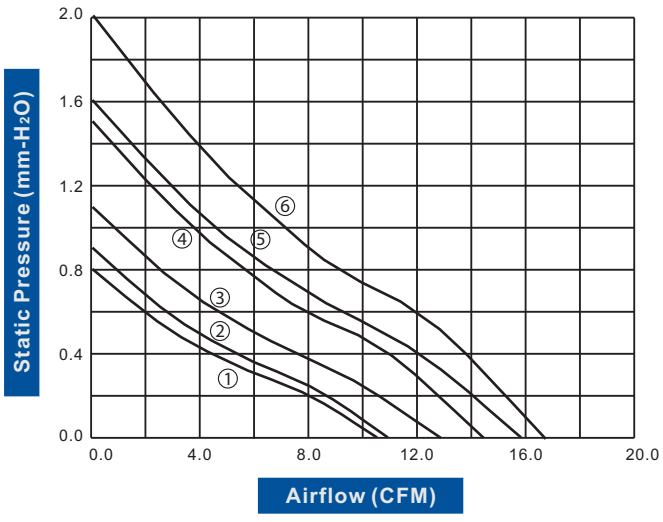
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART · FG · RD SIGNAL H · RD SIGNAL L · PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 41 g **Packing:** 300PCS/CTN

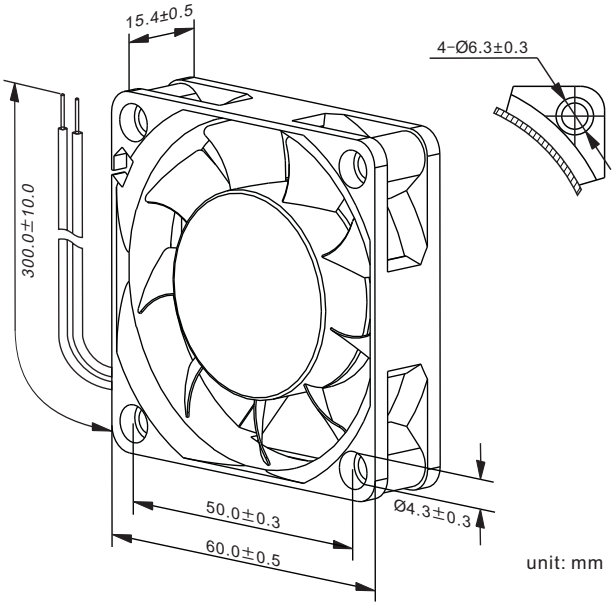
ES SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6015B05W3-83 | 5 | 4.0~5.75 | 17.80 | 2.50 | 24.10 | 3,300 | 160 | 0.80 | B,F | ① |
| FD6015B05W5-83 | 5 | 4.0~5.75 | 21.20 | 3.50 | 30.00 | 4,000 | 220 | 1.10 | B,F | ② |
| FD6015B05W7-83 | 5 | 4.0~5.75 | 24.80 | 4.60 | 34.00 | 4,600 | 350 | 1.75 | B,F | ③ |
| FD6015B12W3-83 | 12 | 6.0~13.8 | 17.80 | 2.50 | 24.10 | 3,300 | 80 | 0.96 | B,F | ① |
| FD6015B12W5-83 | 12 | 6.0~13.8 | 21.20 | 3.50 | 30.00 | 4,000 | 120 | 1.44 | B,F | ② |
| FD6015B12W7-83 | 12 | 6.0~13.8 | 24.80 | 4.60 | 34.00 | 4,600 | 160 | 1.92 | B,F | ③ |
| FD6015B24W7-83 | 24 | 12.0~27.6 | 24.80 | 4.60 | 34.00 | 4,600 | 90 | 2.16 | B,F | ③ |

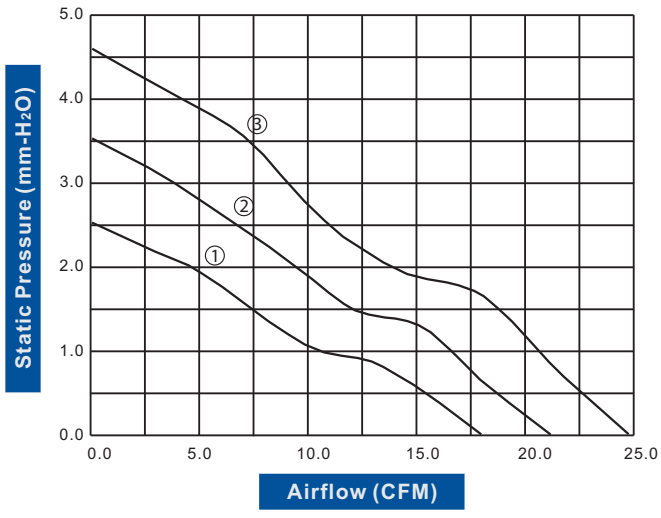
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 41 g Packing:300PCS/CTN

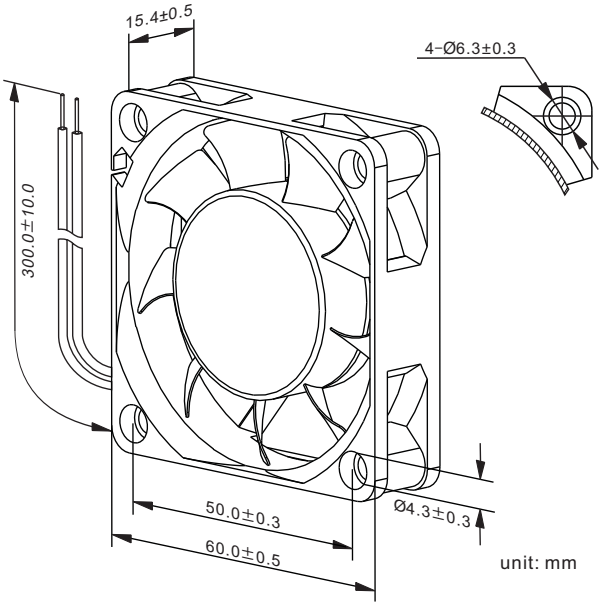
ES SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD6015B05W3-84 | ★ | 5 | 4.5~5.5 | 20.10 | 3.20 | 28.10 | 3,700 | 170 | 0.85 | B,F | ① |
| FD6015B05W5-84 | ★ | 5 | 4.5~5.5 | 24.40 | 4.60 | 33.50 | 4,500 | 290 | 1.45 | B,F | ② |
| FD6015B12W3-84 | ★▲ | 12 | 6.0~13.8 | 20.10 | 3.20 | 28.10 | 3,700 | 80 | 0.96 | B,F | ① |
| FD6015B12W5-84 | ★▲ | 12 | 6.0~13.8 | 24.40 | 4.60 | 33.50 | 4,500 | 130 | 1.56 | B,F | ② |
| FD6015B12W7-84 | ★▲ | 12 | 6.0~13.8 | 27.90 | 5.90 | 36.90 | 5,100 | 170 | 2.04 | B,F | ③ |

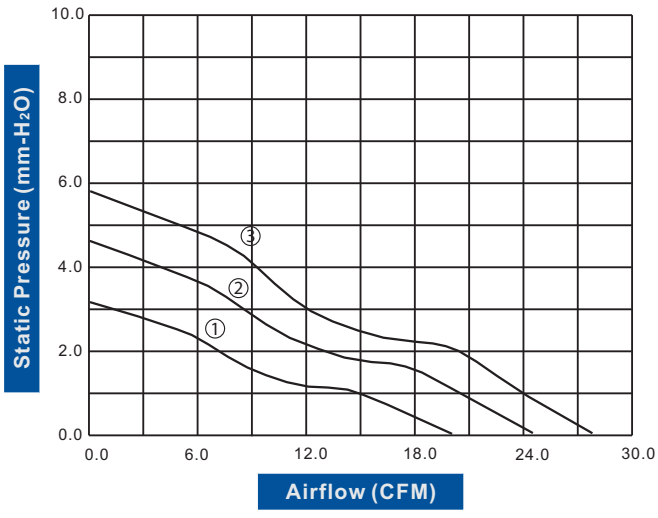
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 44 g Packing: 200PCS/CTN

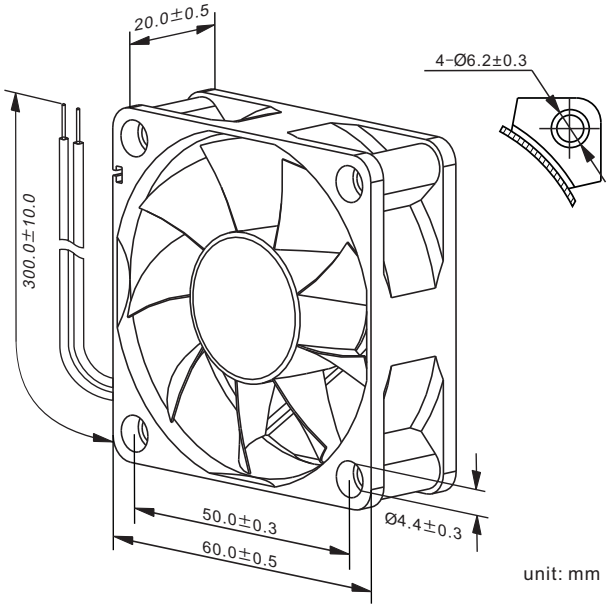
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6020B12W2-71 | 12 | 10.8~13.2 | 12.50 | 1.50 | 19.70 | 2,500 | 80 | 0.96 | B,L,S | ① |
| FD6020B12W3-71 | 12 | 10.8~13.2 | 16.70 | 2.50 | 23.50 | 3,300 | 120 | 1.44 | B,L,S | ② |
| FD6020B12W5-71 | 12 | 10.8~13.2 | 20.60 | 3.70 | 28.60 | 4,000 | 170 | 2.04 | B,L,S | ③ |

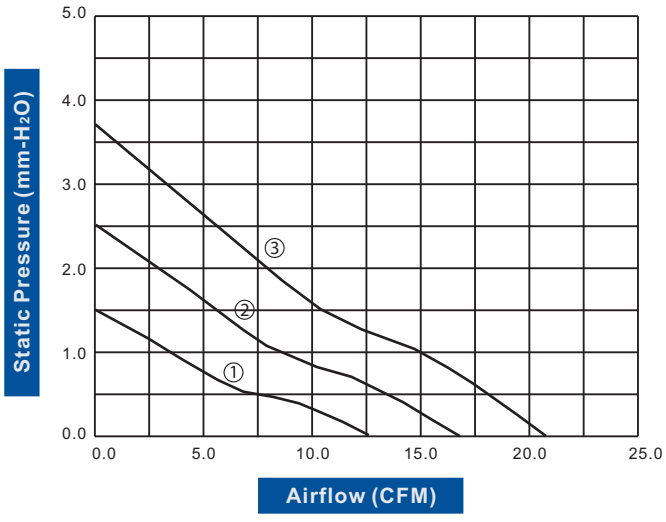
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



# DC AXIAL FAN
# 60x60x20mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight:43 g **Packing:** 200PCS/CTN

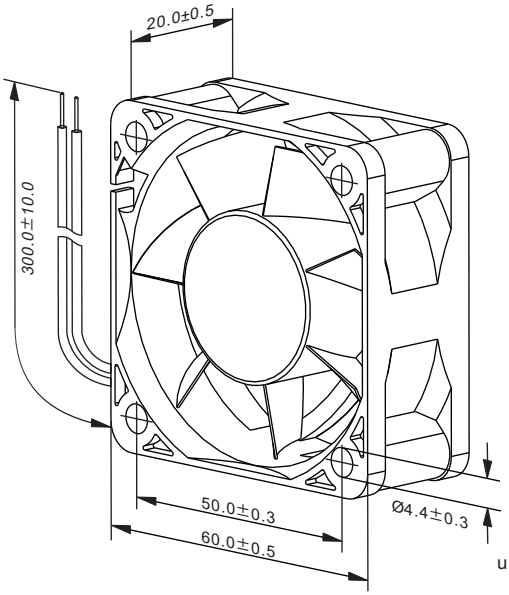
ES IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6020B05W1-81 | 5 | 4.0~5.5 | 13.60 | 2.00 | 20.70 | 2,900 | 110 | 0.55 | B,S | ② |
| FD6020B05W3-81 | 5 | 4.0~5.5 | 16.60 | 2.90 | 26.60 | 3,500 | 150 | 0.75 | B,S | ③ |
| FD6020B05W5-81 | 5 | 4.0~5.5 | 19.50 | 3.70 | 31.00 | 4,100 | 210 | 1.05 | B,S | ④ |
| FD6020B12W00-81 | 12 | 8.0~13.8 | 11.00 | 1.30 | 13.30 | 2,300 | 50 | 0.60 | B,S | ① |
| FD6020B12W1-81 | 12 | 8.0~13.8 | 13.60 | 2.00 | 20.70 | 2,900 | 80 | 0.96 | B,S | ② |
| FD6020B12W3-81 | 12 | 6.0~13.8 | 16.60 | 2.90 | 26.60 | 3,500 | 110 | 1.32 | B,S | ③ |
| FD6020B12W5-81 | 12 | 6.0~13.8 | 19.50 | 3.70 | 31.00 | 4,100 | 150 | 1.80 | B,S | ④ |
| FD6020B24W5-81 | 24 | 12.0~27.6 | 19.50 | 3.70 | 31.00 | 4,100 | 100 | 2.40 | B,S | ④ |

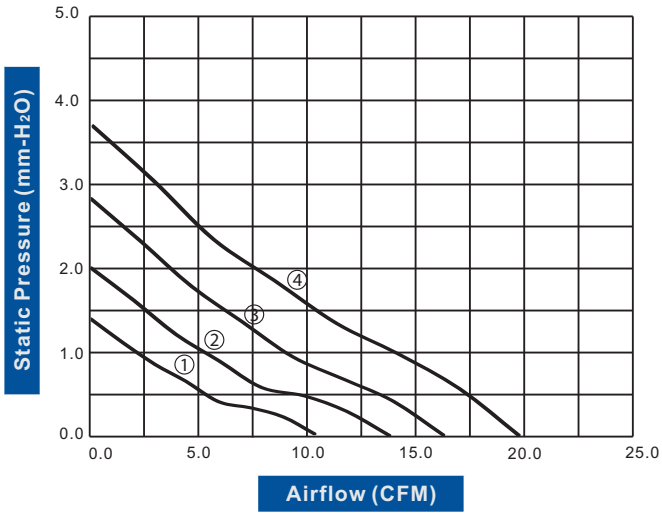
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 56 g Packing: 200PCS/CTN

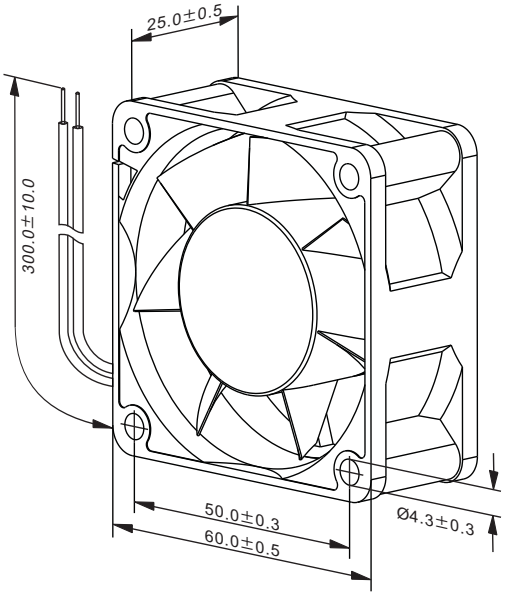
ES IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6025B12W3-21 | ▲ 12 | 7.0~13.2 | 16.00 | 2.40 | 23.10 | 2,800 | 80 | 0.96 | B | ① |
| FD6025B12W5-21 | ▲ 12 | 7.0~13.2 | 20.50 | 3.90 | 29.10 | 3,700 | 120 | 1.44 | B | ② |
| FD6025B12W7-21 | ▲ 12 | 7.0~13.2 | 25.80 | 5.60 | 33.50 | 4,300 | 150 | 1.80 | B | ③ |
| FD6025B12W9-21 | ▲ 12 | 7.0~13.2 | 29.70 | 6.40 | 39.90 | 5,200 | 210 | 2.52 | B | ④ |
| FD6025B24W3-21 | ▲ 24 | 12.0~26.4 | 16.00 | 2.40 | 23.10 | 2,800 | 50 | 1.20 | B | ① |
| FD6025B24W5-21 | ▲ 24 | 12.0~26.4 | 20.50 | 3.90 | 29.10 | 3,700 | 70 | 1.68 | B | ② |
| FD6025B24W7-21 | ▲ 24 | 12.0~26.4 | 25.80 | 5.60 | 33.50 | 4,300 | 90 | 2.16 | B | ③ |
| FD6025B24W9-21 | ▲ 24 | 12.0~26.4 | 29.70 | 6.40 | 39.90 | 5,200 | 110 | 2.64 | B | ④ |
| FD6025B48W3-21 | ※ ▲ 48 | 24.0~56.0 | 16.00 | 2.40 | 23.10 | 2,800 | 30 | 1.44 | B | ① |
| FD6025B48W5-21 | ▲ 48 | 24.0~56.0 | 20.50 | 3.90 | 29.10 | 3,700 | 45 | 2.16 | B | ② |
| FD6025B48W7-21 | ▲ 48 | 24.0~56.0 | 25.80 | 5.60 | 33.50 | 4,300 | 50 | 2.40 | B | ③ |
| FD6025B48W9-21 | ▲ 48 | 24.0~56.0 | 29.70 | 6.40 | 39.90 | 5,200 | 80 | 3.84 | B | ④ |

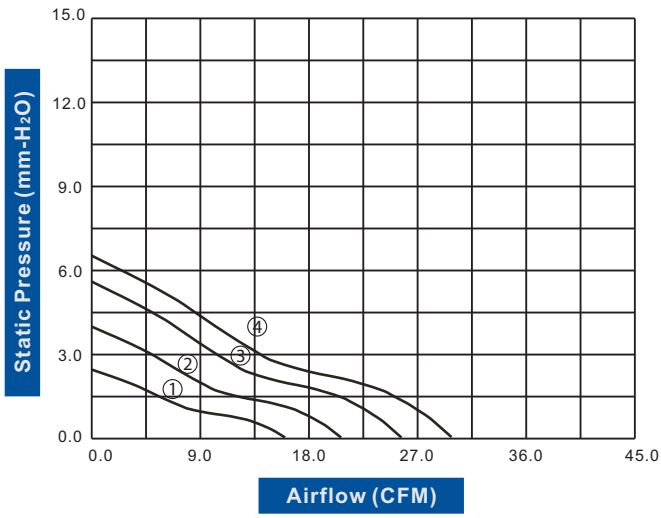
- If model depicts "※", UL and TUV approvals can be implemented upon request.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 55 g Packing: 200PCS/CTN

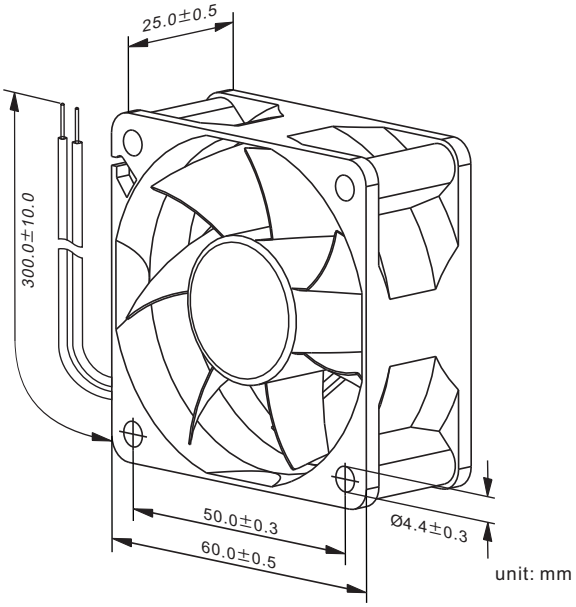
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6025B12W1-71 | 12 | 10.8~13.2 | 13.40 | 1.20 | 18.70 | 2,500 | 80 | 0.96 | B,L,S | ① |
| FD6025B12W3-71 | 12 | 10.8~13.2 | 16.10 | 2.40 | 22.10 | 3,000 | 80 | 0.96 | B,L,S | ② |
| FD6025B12W5-71 | 12 | 10.8~13.2 | 21.40 | 4.80 | 28.90 | 4,000 | 130 | 1.56 | B,L,S | ③ |
| FD6025B24W1-71 | 24 | 17.0~28.0 | 13.40 | 1.20 | 18.70 | 2,500 | 90 | 2.16 | B,L,S | ① |
| FD6025B24W3-71 | 24 | 17.0~28.0 | 16.10 | 2.40 | 22.10 | 3,000 | 100 | 2.40 | B,L,S | ② |
| FD6025B24W5-71 | 24 | 17.0~28.0 | 21.40 | 4.80 | 28.90 | 4,000 | 140 | 3.36 | B,L,S | ③ |

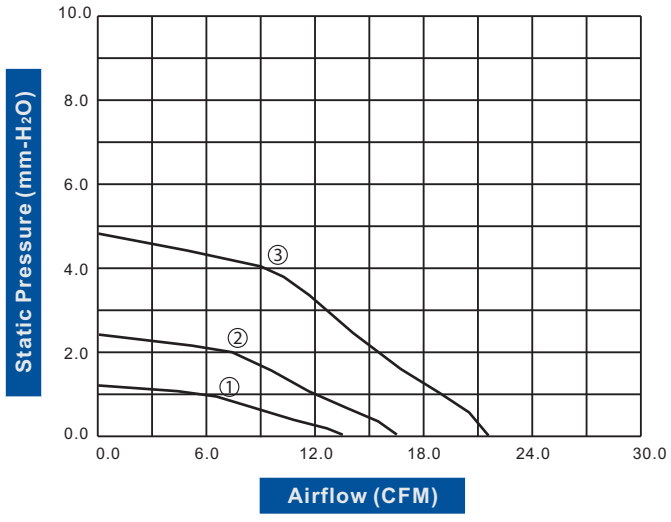
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 48 g Packing: 200PCS/CTN

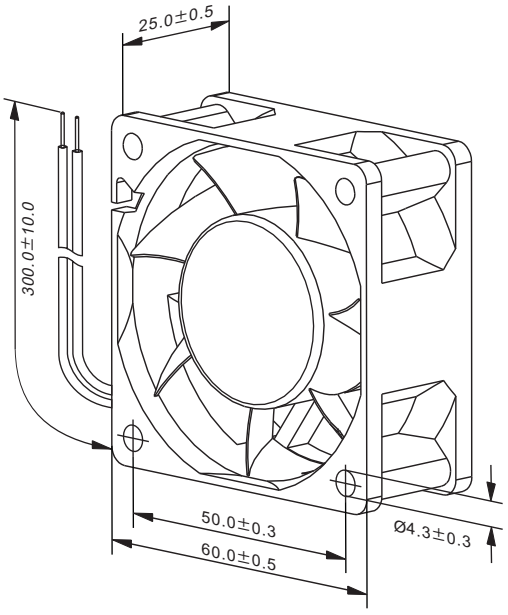
SS IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD6025B12W3-73A | 12 | 10.8~13.2 | 14.90 | 1.90 | 24.40 | 2,600 | 220 | 2.64 | B,S | ① |
| FD6025B12W3-73B | 12 | 10.8~13.2 | 21.00 | 3.30 | 31.40 | 3,400 | 220 | 2.64 | B,S | ② |
| FD6025B12W5-73A | 12 | 10.8~13.2 | 22.70 | 4.50 | 35.90 | 4,200 | 350 | 4.20 | B,S | ③ |
| FD6025B12W5-73B | 12 | 10.8~13.2 | 28.30 | 6.30 | 40.20 | 5,000 | 350 | 4.20 | B,S | ④ |
| FD6025B12W7-73A | 12 | 10.8~13.2 | 32.90 | 8.20 | 44.30 | 5,800 | 550 | 6.60 | B,S | ⑤ |
| FD6025B12W7-73B | 12 | 10.8~13.2 | 37.60 | 10.50 | 48.70 | 6,600 | 550 | 6.60 | B,S | ⑥ |

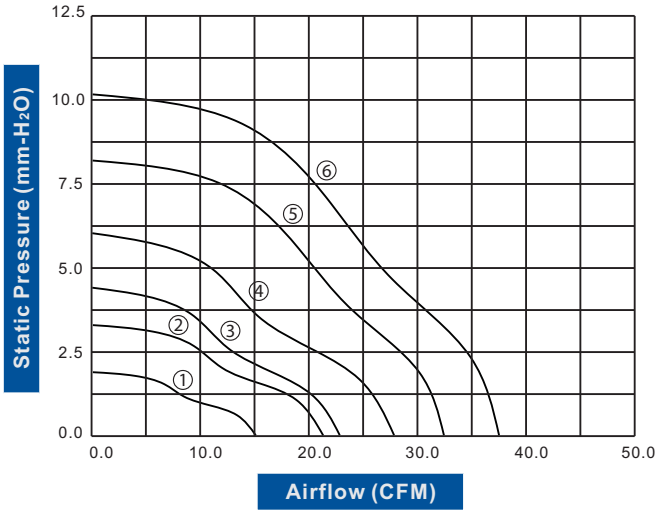
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 68 g Packing: 200PCS/CTN

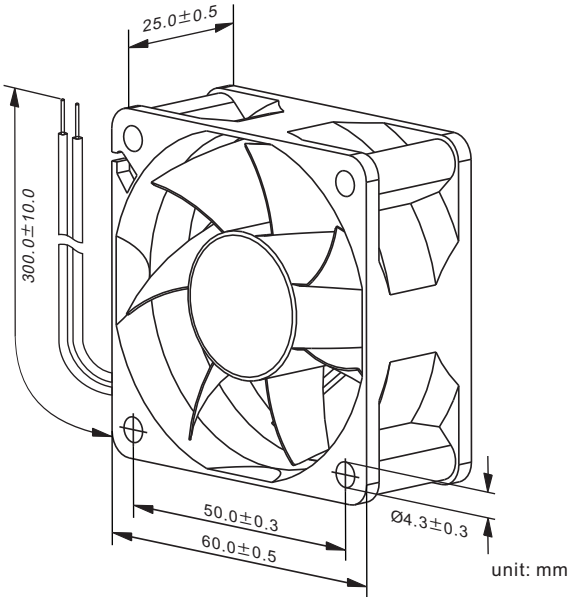
SS IP SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD6025B12W3-75 | | 12 | 7.0~13.8 | 16.20 | 2.80 | 26.40 | 3,000 | 150 | 1.80 | B,S | ① |
| FD6025B12W5-75 | ★ | 12 | 7.0~13.8 | 25.70 | 6.50 | 38.50 | 4,800 | 270 | 3.24 | B,S | ③ |
| FD6025B12W7-75 | ★ | 12 | 7.0~13.8 | 32.80 | 9.90 | 45.60 | 6,000 | 320 | 3.84 | B,S | ⑤ |
| FD6025B12W9-75 | ★ | 12 | 7.0~13.8 | 37.50 | 12.70 | 48.30 | 6,800 | 350 | 4.20 | B,S | ⑥ |
| FD6025B24W3-75 | | 24 | 12.0~27.6 | 16.20 | 2.80 | 26.40 | 3,000 | 90 | 2.16 | B,S | ① |
| FD6025B24W5-75 | ★ | 24 | 12.0~27.6 | 25.70 | 6.50 | 38.50 | 4,800 | 170 | 4.08 | B,S | ③ |
| FD6025B24W7-75 | ★ | 24 | 12.0~27.6 | 32.80 | 9.90 | 45.60 | 6,000 | 220 | 5.28 | B,S | ⑤ |
| FD6025B24W9-75 | ★ | 24 | 12.0~27.6 | 37.50 | 12.70 | 48.30 | 6,800 | 290 | 6.96 | B,S | ⑥ |
| FD6025B48W3-75 | ★ | 48 | 24.0~56.0 | 22.40 | 5.10 | 35.20 | 4,200 | 50 | 2.40 | B,S | ② |
| FD6025B48W5-75 | ★ | 48 | 24.0~56.0 | 25.70 | 6.50 | 38.50 | 4,800 | 80 | 3.84 | B,S | ③ |
| FD6025B48W7-75 | ★ | 48 | 24.0~56.0 | 29.60 | 8.30 | 40.30 | 5,400 | 120 | 5.76 | B,S | ④ |
| FD6025B48W9-75 | ★ | 48 | 24.0~56.0 | 32.80 | 9.90 | 45.60 | 6,000 | 180 | 8.64 | B,S | ⑤ |

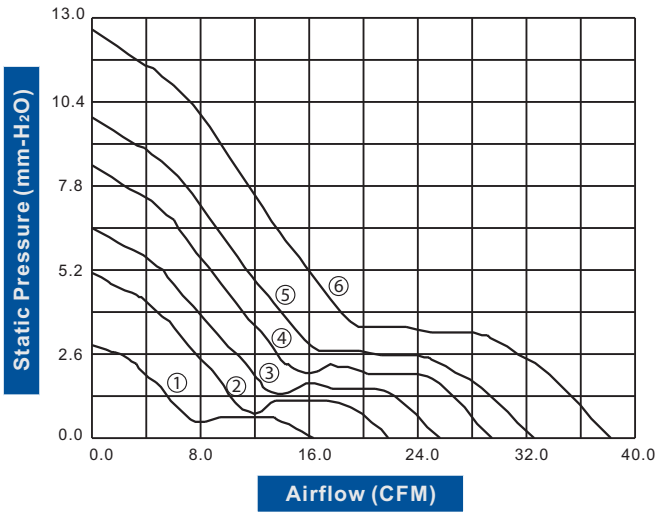
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



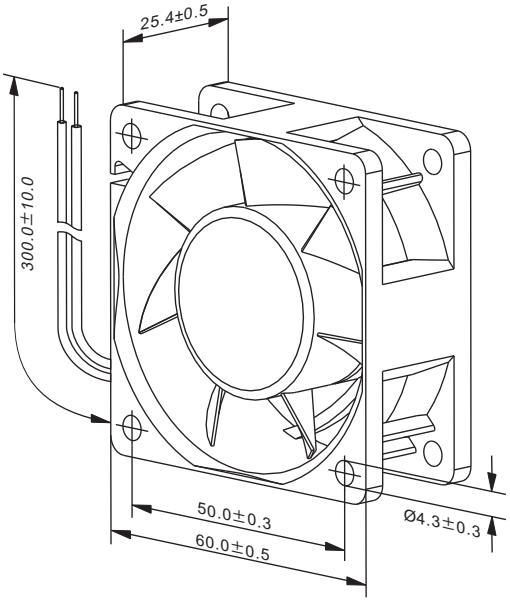
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 68 g Packing: 200PCS/CTN

ES SF

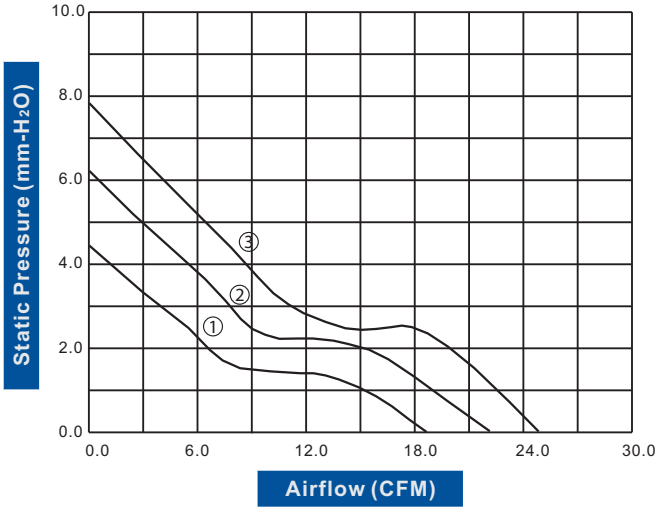
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD6025B12W3-83 | | 12 | 6.0~13.8 | 18.10 | 4.30 | 27.60 | 3,500 | 80 | 0.96 | B,F | ① |
| FD6025B12W5-83 | | 12 | 6.0~13.8 | 22.10 | 6.10 | 32.00 | 4,200 | 100 | 1.20 | B,F | ② |
| FD6025B12W7-83 | | 12 | 6.0~13.8 | 25.00 | 7.80 | 35.00 | 4,800 | 130 | 1.56 | B,F | ③ |
| FD6025B24W3-83 | ★ | 24 | 12.0~27.6 | 18.10 | 4.30 | 27.60 | 3,500 | 50 | 1.20 | B,F | ① |
| FD6025B24W5-83 | ★ | 24 | 12.0~27.6 | 22.10 | 6.10 | 32.00 | 4,200 | 60 | 1.44 | B,F | ② |
| FD6025B24W7-83 | ★ | 24 | 12.0~27.6 | 25.00 | 7.80 | 35.00 | 4,800 | 70 | 1.68 | B,F | ③ |

- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 79 g **Packing:** 200PCS/CTN

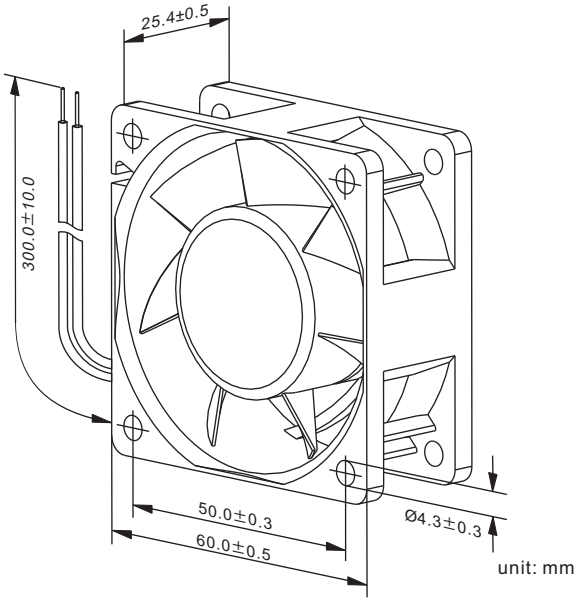
ES SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD6025B12W3-84 | ★▲ | 12 | 6.0~13.8 | 29.20 | 10.60 | 40.40 | 5,500 | 170 | 2.04 | B,F | ① |
| FD6025B12W5-84 | ★▲ | 12 | 6.0~13.8 | 31.70 | 13.20 | 42.40 | 6,100 | 210 | 2.52 | B,F | ② |
| FD6025B12W7-84 | ★▲ | 12 | 6.0~13.2 | 36.80 | 17.20 | 47.30 | 7,000 | 320 | 3.84 | B,F | ③ |

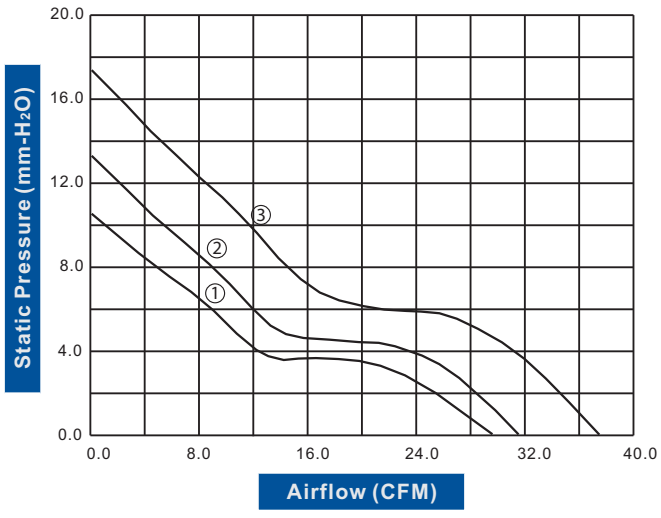
- For "Fluid Lubricant " bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 85 g Packing: 200PCS/CTN

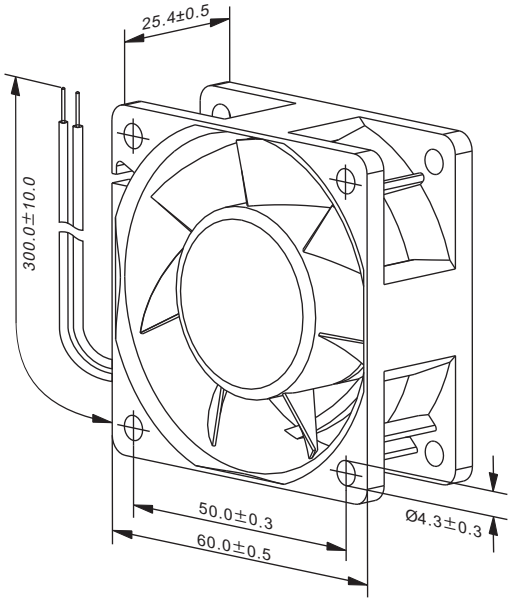
ES IP SF

- **High Airflow**
- **Extremely High Static Pressure**

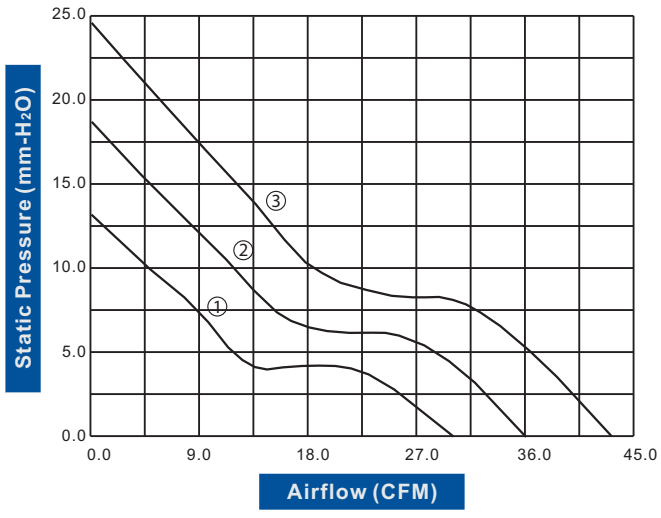
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD6025B12W3-85 | ★▲ | 12 | 6.0~13.8 | 30.10 | 13.20 | 40.90 | 5,800 | 210 | 2.52 | B | ① |
| FD6025B12W5-85 | ★▲ | 12 | 6.0~13.8 | 36.00 | 18.20 | 45.30 | 7,000 | 320 | 3.84 | B | ② |
| FD6025B12W7-85 | ★▲ | 12 | 6.0~13.8 | 43.40 | 24.90 | 49.70 | 8,000 | 480 | 5.76 | B | ③ |
| FD6025B24W3-85 | ★▲ | 24 | 16.0~27.6 | 30.10 | 13.20 | 40.90 | 5,800 | 110 | 2.64 | B | ① |
| FD6025B24W5-85 | ★▲ | 24 | 16.0~27.6 | 36.00 | 18.20 | 44.80 | 7,000 | 160 | 3.84 | B | ② |
| FD6025B24W7-85 | ★▲ | 24 | 16.0~27.6 | 43.40 | 24.90 | 49.70 | 8,000 | 220 | 5.28 | B | ③ |
| FD6025B48W3-85 | ★▲ | 48 | 30.0~55.2 | 30.10 | 13.20 | 40.90 | 5,800 | 60 | 2.88 | B | ① |
| FD6025B48W5-85 | ★▲ | 48 | 30.0~55.2 | 36.00 | 18.20 | 44.80 | 7,000 | 100 | 4.80 | B | ② |
| FD6025B48W7-85 | ★▲ | 48 | 30.0~55.2 | 43.40 | 24.90 | 49.70 | 8,000 | 140 | 6.72 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 60x60x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 95 g Packing: 100PCS/CTN

ES IP SF

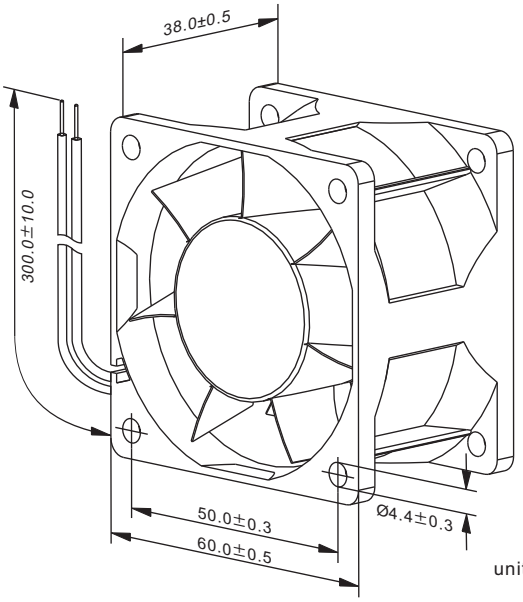
- **High Airflow**
- **High Static Pressure**

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD6038B12W3-81 | ★ | 12 | 8.0~13.8 | 29.80 | 8.00 | 51.70 | 5,000 | 260 | 3.12 | B | ① |
| FD6038B12W5-81 | ★ | 12 | 8.0~13.8 | 35.40 | 11.40 | 56.20 | 6,000 | 390 | 4.68 | B | ② |
| FD6038B12W7-81 | ★ | 12 | 8.0~13.8 | 42.00 | 15.50 | 59.60 | 7,000 | 680 | 8.16 | B | ③ |
| FD6038B24W3-81 | ★ | 24 | 18.0~27.6 | 29.80 | 8.00 | 51.70 | 5,000 | 170 | 4.08 | B | ① |
| FD6038B24W5-81 | ★ | 24 | 18.0~27.6 | 35.40 | 11.40 | 56.20 | 6,000 | 200 | 4.80 | B | ② |
| FD6038B24W7-81 | ★ | 24 | 18.0~27.6 | 42.00 | 15.50 | 59.60 | 7,000 | 320 | 7.68 | B | ③ |
| FD6038B24W9-81 | ★ | 24 | 18.0~27.6 | 50.60 | 18.00 | 63.00 | 8,000 | 390 | 9.36 | B | ④ |

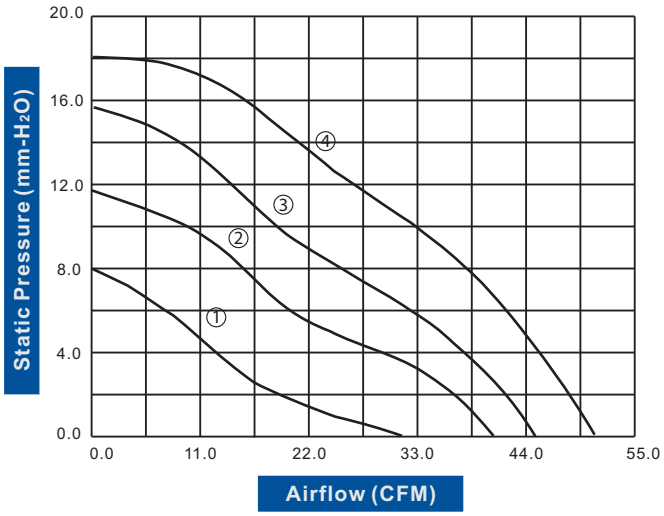
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 35 g Packing: 300PCS/CTN

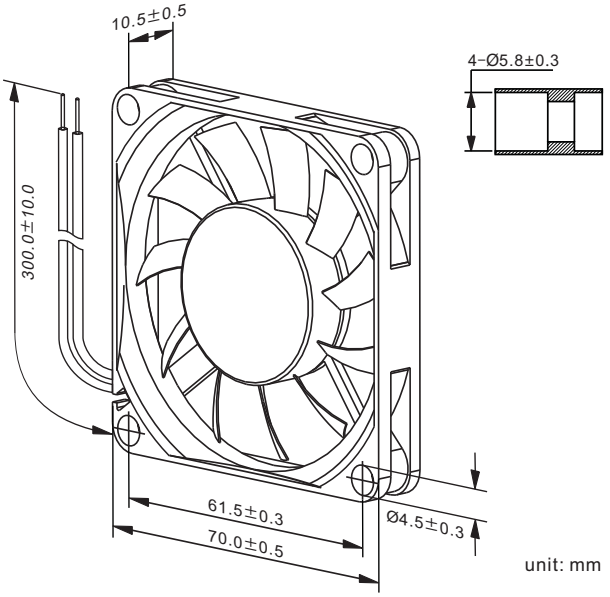
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD7010C12W3-71 | 12 | 9.0~13.2 | 15.10 | 1.30 | 24.60 | 2,500 | 100 | 1.20 | L,S | ① |
| FD7010C12W5-71 | 12 | 9.0~13.2 | 16.20 | 1.80 | 29.00 | 3,000 | 140 | 1.68 | L,S | ② |
| FD7010C12W7-71 | 12 | 9.0~13.2 | 21.30 | 2.40 | 33.30 | 3,500 | 210 | 2.52 | L,S | ③ |
| FD7010C24W3-71 | 24 | 17.0~28.0 | 15.10 | 1.30 | 24.60 | 2,500 | 80 | 1.92 | L,S | ① |
| FD7010C24W5-71 | 24 | 17.0~28.0 | 16.20 | 1.80 | 29.00 | 3,000 | 110 | 2.64 | L,S | ② |
| FD7010C24W7-71 | 24 | 17.0~28.0 | 21.30 | 2.40 | 33.30 | 3,500 | 130 | 3.12 | L,S | ③ |

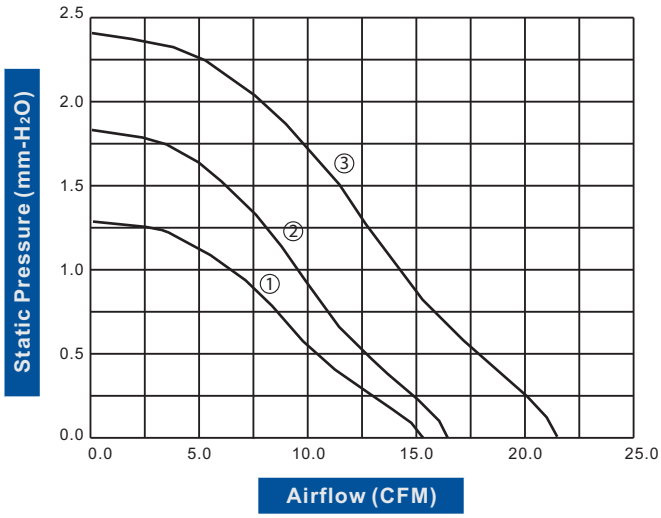
- For "Long Life" or "Sleeve" bearing versions, change the "L" in the model number to or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 35 g Packing: 300PCS/CTN

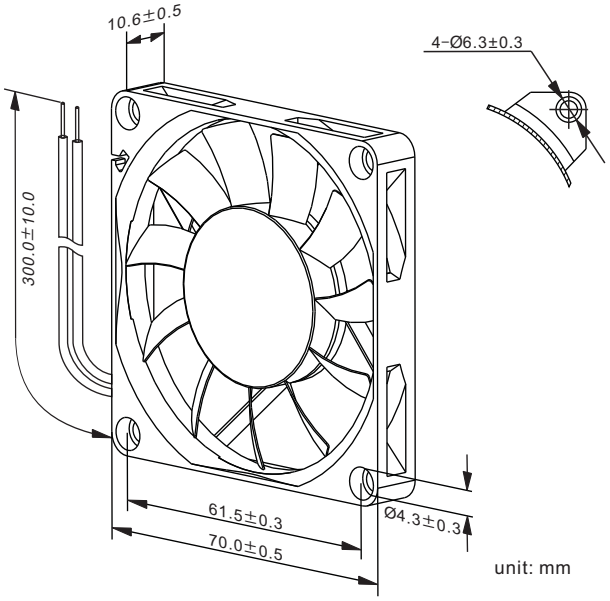
ES SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD7010B05W3-83 | 5 | 4.0~5.75 | 18.40 | 1.40 | 24.10 | 2,600 | 160 | 0.80 | B,F | ① |
| FD7010B05W5-83 | 5 | 4.0~5.75 | 22.90 | 2.20 | 30.00 | 3,200 | 260 | 1.30 | B,F | ② |
| FD7010B05W7-83 | 5 | 4.0~5.75 | 26.20 | 2.80 | 33.00 | 3,600 | 340 | 1.70 | B,F | ③ |
| FD7010B12W3-83 | 12 | 6.0~13.8 | 18.40 | 1.40 | 24.10 | 2,600 | 80 | 0.96 | B,F | ① |
| FD7010B12W5-83 | 12 | 6.0~13.8 | 22.90 | 2.20 | 30.00 | 3,200 | 120 | 1.44 | B,F | ② |
| FD7010B12W7-83 | 12 | 6.0~13.8 | 26.20 | 2.80 | 33.00 | 3,600 | 190 | 2.28 | B,F | ③ |

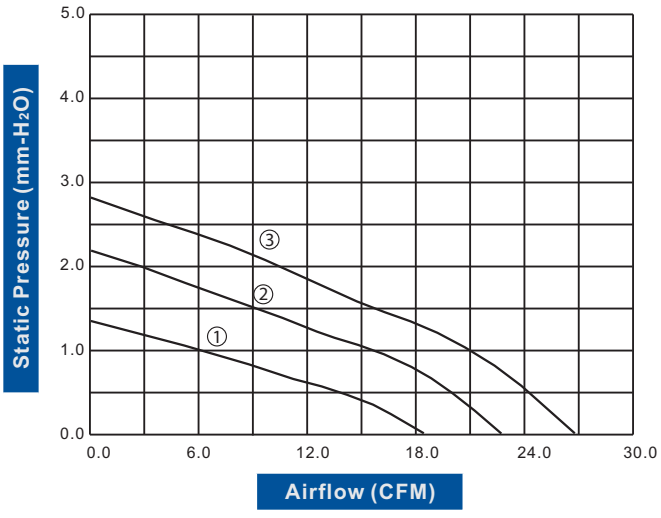
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



# DC AXIAL FAN
# 70x70x10mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 37 g Packing: 300PCS/CTN

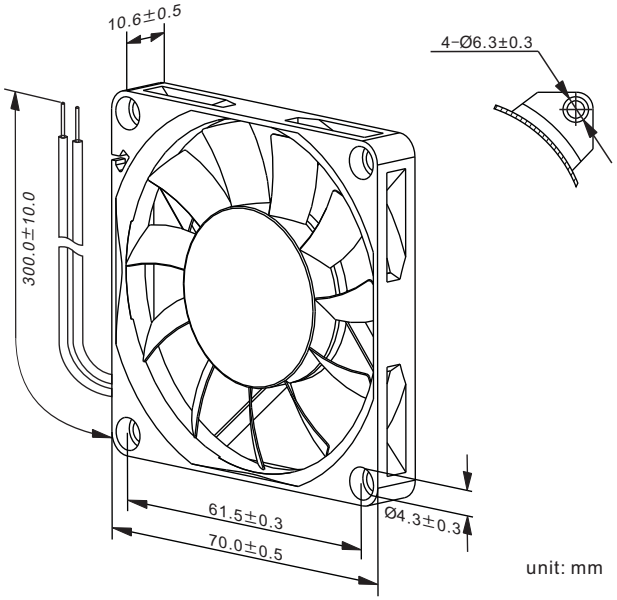
ES SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD7010B05W3-84 | ★ | 5 | 4.5~5.5 | 23.00 | 2.30 | 29.60 | 3,200 | 180 | 0.90 | B,F | ① |
| FD7010B05W5-84 | ★ | 5 | 4.5~5.5 | 28.40 | 3.40 | 35.50 | 3,900 | 300 | 1.50 | B,F | ② |
| FD7010B12W3-84 | ★▲ | 12 | 6.0~13.8 | 23.00 | 2.30 | 29.60 | 3,200 | 120 | 1.44 | B,F | ① |
| FD7010B12W5-84 | ★▲ | 12 | 6.0~13.8 | 28.40 | 3.40 | 35.50 | 3,900 | 160 | 1.92 | B,F | ② |
| FD7010B12W7-84 | ★▲ | 12 | 6.0~13.8 | 31.60 | 4.20 | 38.90 | 4,400 | 220 | 2.64 | B,F | ③ |

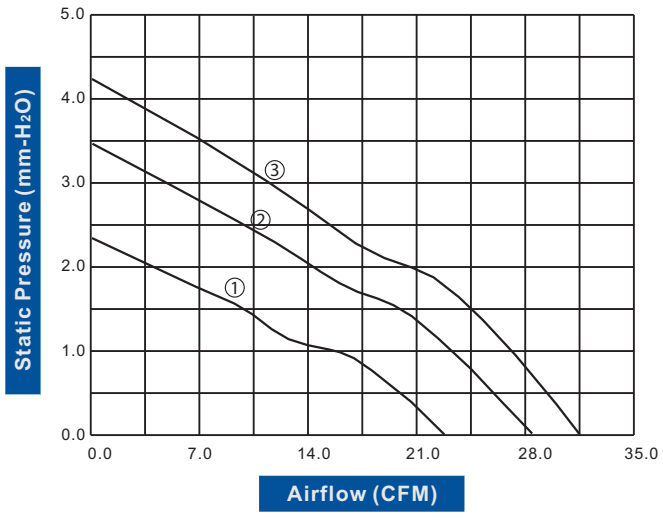
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight:57 g Packing: 300PCS/CTN

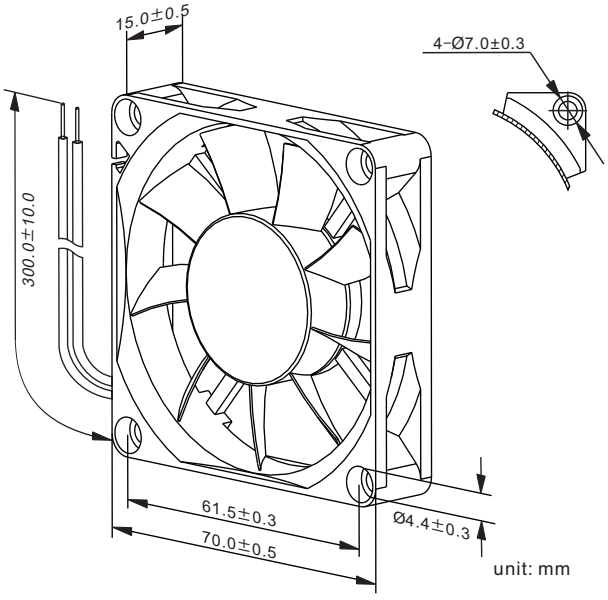
ES SF

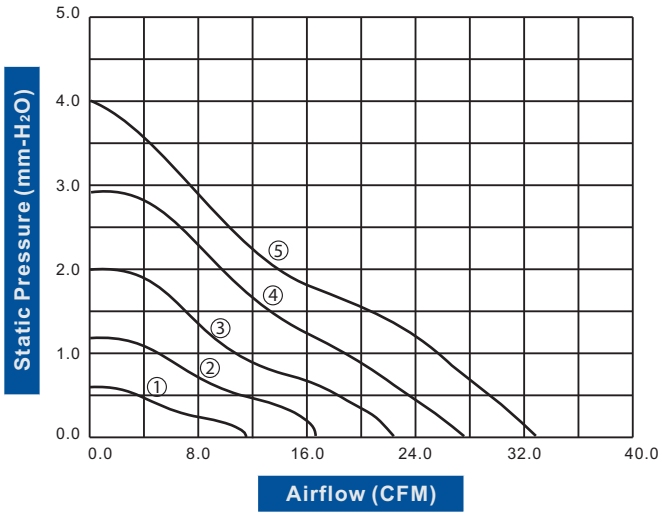
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD7015B12W1-81 | ★ | 12 | 8.0~13.8 | 11.30 | 0.60 | 10.30 | 1,400 | 50 | 0.60 | B,L,S | ① |
| FD7015B12W2-81 | ★ | 12 | 8.0~13.8 | 16.70 | 1.20 | 18.70 | 2,000 | 80 | 0.96 | B,L,S | ② |
| FD7015B12W3-81 | | 12 | 6.0~13.8 | 22.30 | 2.00 | 26.10 | 2,600 | 90 | 1.08 | B,L,S | ③ |
| FD7015B12W5-81 | | 12 | 6.0~13.8 | 27.70 | 2.90 | 31.50 | 3,200 | 150 | 1.80 | B,L,S | ④ |
| FD7015B12W7-81 | | 12 | 6.0~13.8 | 33.50 | 4.00 | 36.00 | 3,800 | 240 | 2.88 | B,L,S | ⑤ |

- For "Long Life" or "Sleeve" bearing versions, change the "B" in the model number to "L" or "S" respectively.
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H



# DC AXIAL FAN
# 70x70x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20°C~70°C(Humidity 15%-90%RH)
Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)
Lead Wire: UL Type #26AWG
Weight: 122 g **Packing:** 60PCS/CTN

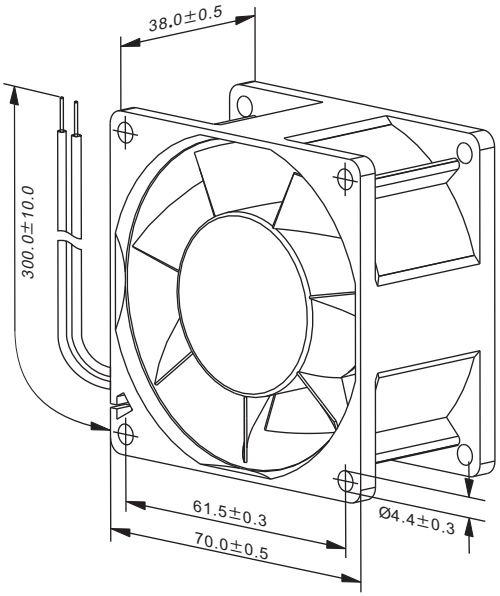
ES IP SF

- **High Airflow**
- **High Static Pressure**

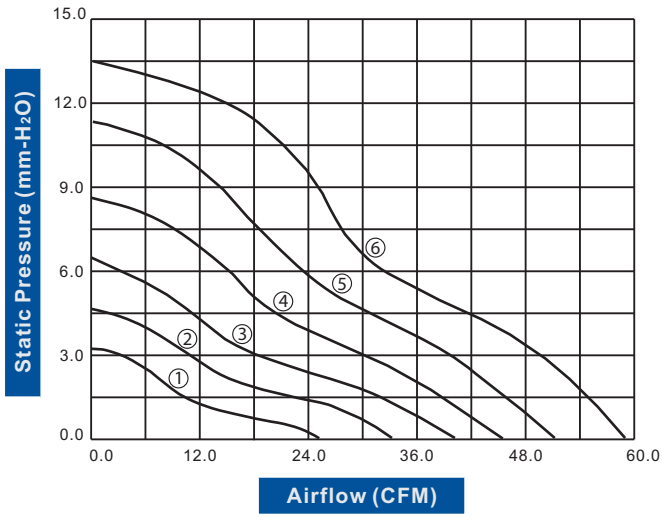
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD7038B12W1-81 | ★ | 12 | 8.0~13.8 | 26.40 | 3.10 | 32.00 | 2,600 | 130 | 1.56 | B | ① |
| FD7038B12W3-81 | ★ | 12 | 8.0~13.8 | 33.10 | 4.60 | 36.90 | 3,200 | 160 | 1.92 | B | ② |
| FD7038B12W5-81 | ★ | 12 | 8.0~13.8 | 39.10 | 6.50 | 42.80 | 3,800 | 240 | 2.88 | B | ③ |
| FD7038B12W7-81 | ★ | 12 | 8.0~13.8 | 45.60 | 8.60 | 45.80 | 4,400 | 320 | 3.84 | B | ④ |
| FD7038B12W9-81 | ★ | 12 | 8.0~13.8 | 51.50 | 10.90 | 49.70 | 5,000 | 430 | 5.16 | B | ⑤ |
| FD7038B12W11-81 | ★ | 12 | 8.0~13.8 | 58.70 | 13.40 | 52.70 | 5,600 | 540 | 6.48 | B | ⑥ |
| FD7038B24W5-81 | ★ | 24 | 18.0~27.6 | 39.10 | 6.50 | 42.80 | 3,800 | 100 | 2.40 | B | ③ |
| FD7038B24W7-81 | ★ | 24 | 18.0~27.6 | 45.60 | 8.60 | 45.80 | 4,400 | 150 | 3.60 | B | ④ |
| FD7038B24W9-81 | ★ | 24 | 18.0~27.6 | 51.50 | 10.90 | 49.70 | 5,000 | 200 | 4.80 | B | ⑤ |
| FD7038B24W11-81 | ★ | 24 | 18.0~27.6 | 58.70 | 13.40 | 52.70 | 5,600 | 320 | 7.68 | B | ⑥ |

- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 35 g Packing: 100PCS/CTN

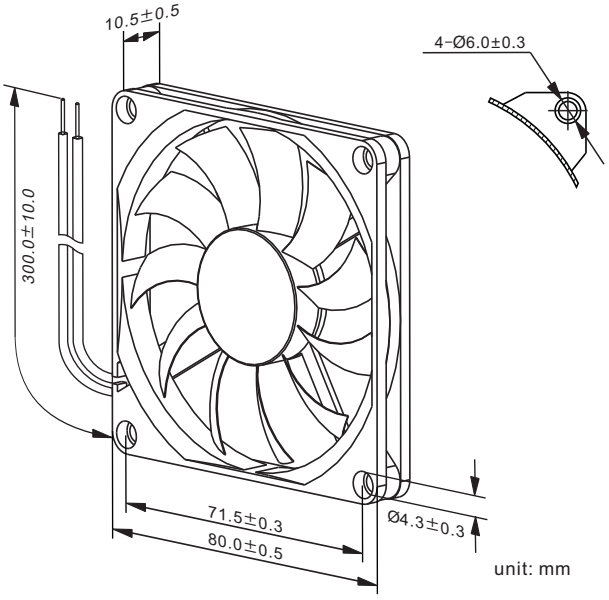
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8010C12W3-71 | 12 | 10.8~13.2 | 15.80 | 0.90 | 21.70 | 2,000 | 120 | 1.44 | L,S | ① |
| FD8010C12W5-71 | 12 | 10.8~13.2 | 20.00 | 1.30 | 25.90 | 2,500 | 180 | 2.16 | L,S | ② |
| FD8010C12W7-71 | 12 | 10.8~13.2 | 23.80 | 1.80 | 30.30 | 3,000 | 240 | 2.88 | L,S | ③ |
| FD8010C24W3-71 | 24 | 17.0~28.0 | 15.80 | 0.90 | 21.70 | 2,000 | 80 | 1.92 | L,S | ① |
| FD8010C24W5-71 | 24 | 17.0~28.0 | 20.00 | 1.30 | 25.90 | 2,500 | 110 | 2.64 | L,S | ② |
| FD8010C24W7-71 | 24 | 17.0~28.0 | 23.80 | 1.80 | 30.30 | 3,000 | 140 | 3.36 | L,S | ③ |

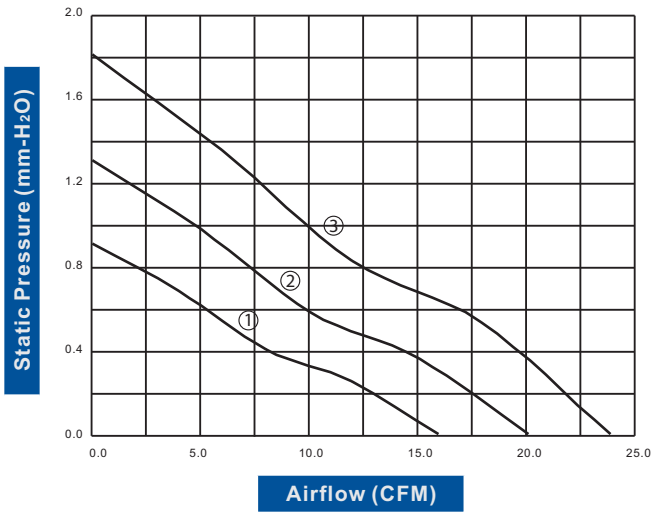
- For "Long Life" or "Sleeve" bearing versions, change the "L" in the model number to or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



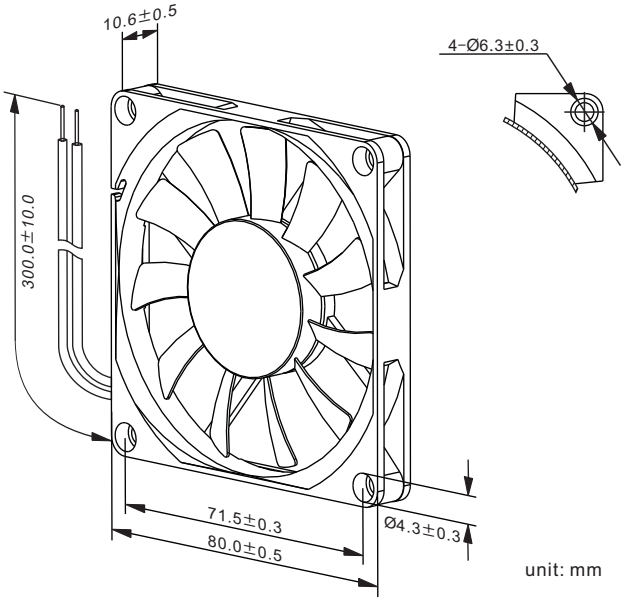
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 43 g Packing: 100PCS/CTN

ES SF

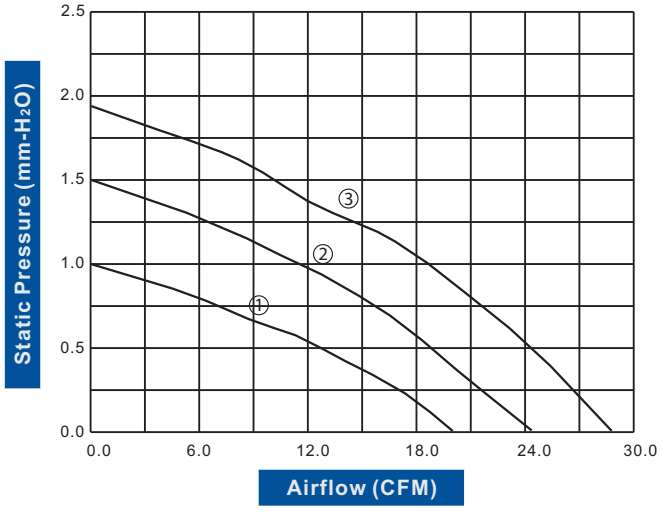
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8010B05W3-83 | 5 | 4.0~5.75 | 20.00 | 1.00 | 22.20 | 2,000 | 120 | 0.60 | B,F | ① |
| FD8010B05W5-83 | 5 | 4.0~5.75 | 24.80 | 1.50 | 27.60 | 2,400 | 220 | 1.10 | B,F | ② |
| FD8010B05W7-83 | 5 | 4.0~5.75 | 28.40 | 1.90 | 31.50 | 2,800 | 400 | 2.00 | B,F | ③ |
| FD8010B12W3-83 ★ | 12 | 6.0~13.8 | 20.00 | 1.00 | 22.20 | 2,000 | 90 | 1.08 | B,F | ① |
| FD8010B12W5-83 ★ | 12 | 6.0~13.8 | 24.80 | 1.50 | 27.60 | 2,400 | 130 | 1.56 | B,F | ② |
| FD8010B12W7-83 ★ | 12 | 6.0~12.6 | 28.40 | 1.90 | 31.50 | 2,800 | 200 | 2.40 | B,F | ③ |

- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 80x80x10mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 43 g **Packing:** 100PCS/CTN

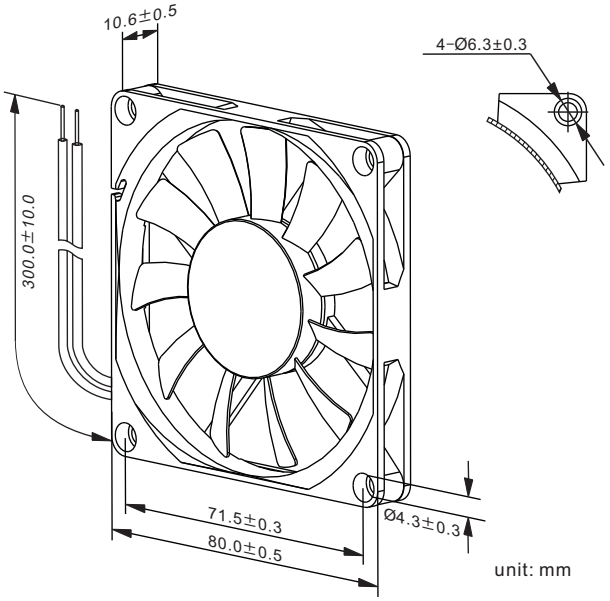
ES SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8010B05W3-84 | ★ | 5 | 4.5~5.5 | 24.30 | 1.50 | 27.60 | 2,400 | 160 | 0.80 | B,F | ① |
| FD8010B05W5-84 | ★ | 5 | 4.5~5.5 | 29.90 | 2.20 | 32.50 | 2,900 | 280 | 1.40 | B,F | ② |
| FD8010B12W3-84 | ★▲ | 12 | 6.0~13.8 | 24.30 | 1.50 | 27.60 | 2,400 | 90 | 1.08 | B,F | ① |
| FD8010B12W5-84 | ★▲ | 12 | 6.0~13.8 | 29.90 | 2.20 | 32.50 | 2,900 | 120 | 1.44 | B,F | ② |
| FD8010B12W7-84 | ★▲ | 12 | 6.0~13.8 | 34.10 | 2.80 | 35.50 | 3,300 | 160 | 1.92 | B,F | ③ |

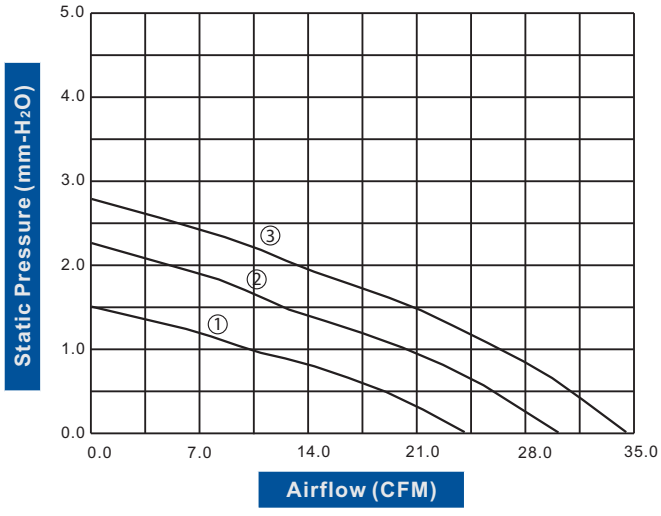
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 46 g Packing: 100PCS/CTN

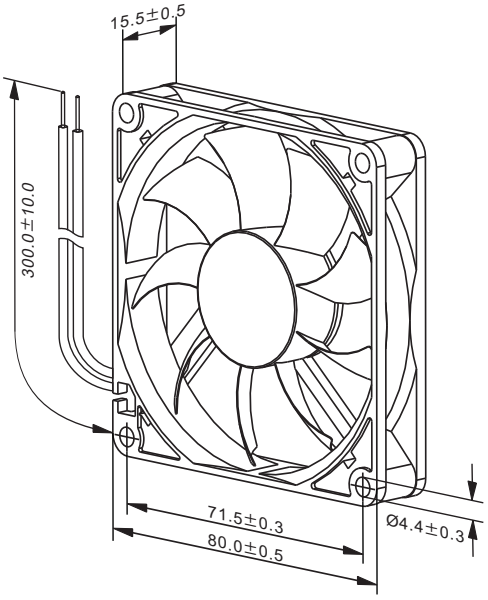
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8015B05W3-71 | 5 | 4.0~5.5 | 19.30 | 1.00 | 23.80 | 2,000 | 140 | 0.70 | B,L,S | ① |
| FD8015B05W5-71 | 5 | 4.0~5.5 | 25.30 | 1.70 | 29.40 | 2,500 | 180 | 0.90 | B,L,S | ② |
| FD8015B05W7-71 | 5 | 4.0~5.5 | 30.60 | 2.40 | 34.10 | 3,000 | 260 | 1.30 | B,L,S | ③ |
| FD8015B12W3-71 | 12 | 10.8~13.2 | 19.30 | 1.00 | 23.80 | 2,000 | 90 | 1.08 | B,L,S | ① |
| FD8015B12W5-71 | 12 | 10.8~13.2 | 25.30 | 1.70 | 29.40 | 2,500 | 140 | 1.68 | B,L,S | ② |
| FD8015B12W7-71 | 12 | 10.8~13.2 | 30.60 | 2.40 | 34.10 | 3,000 | 170 | 2.04 | B,L,S | ③ |
| FD8015B24W3-71 | 24 | 17.0~28.0 | 19.30 | 1.00 | 23.80 | 2,000 | 70 | 1.68 | B,L,S | ① |
| FD8015B24W5-71 | 24 | 17.0~28.0 | 25.30 | 1.70 | 29.40 | 2,500 | 100 | 2.40 | B,L,S | ② |
| FD8015B24W7-71 | 24 | 17.0~28.0 | 30.60 | 2.40 | 34.10 | 3,000 | 140 | 3.36 | B,L,S | ③ |

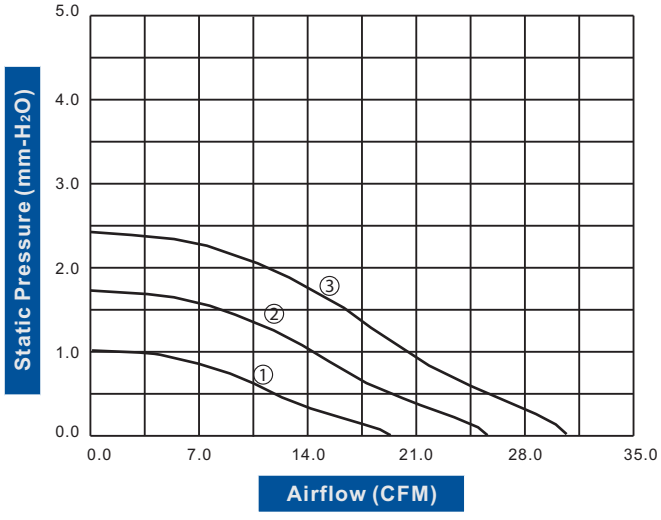
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



# DC AXIAL FAN
# 80x80x15mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 59 g Packing: 100PCS/CTN

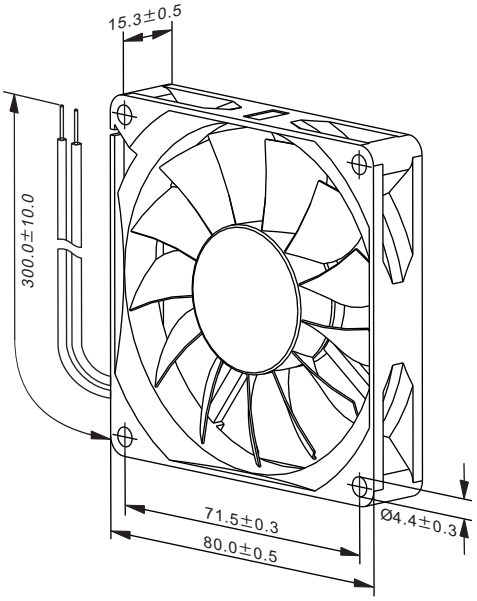
ES IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8015B12W1-82 | 12 | 8.0~13.8 | 27.10 | 1.80 | 25.10 | 2,000 | 110 | 1.32 | B,S | ① |
| FD8015B12W3-82 | 12 | 6.0~13.8 | 34.50 | 2.80 | 31.00 | 2,500 | 190 | 2.28 | B,S | ② |
| FD8015B12W5-82 | 12 | 6.0~13.8 | 41.10 | 4.00 | 36.40 | 3,000 | 270 | 3.24 | B,S | ③ |
| FD8015B12W7-82 ★ | 12 | 6.0~13.8 | 45.90 | 4.90 | 38.90 | 3,300 | 430 | 5.16 | B,S | ④ |
| FD8015B24W3-82 | 24 | 12.0~27.6 | 34.50 | 2.80 | 31.00 | 2,500 | 120 | 2.88 | B,S | ② |
| FD8015B24W5-82 ★ | 24 | 12.0~27.6 | 41.10 | 4.00 | 36.40 | 3,000 | 150 | 3.60 | B,S | ③ |

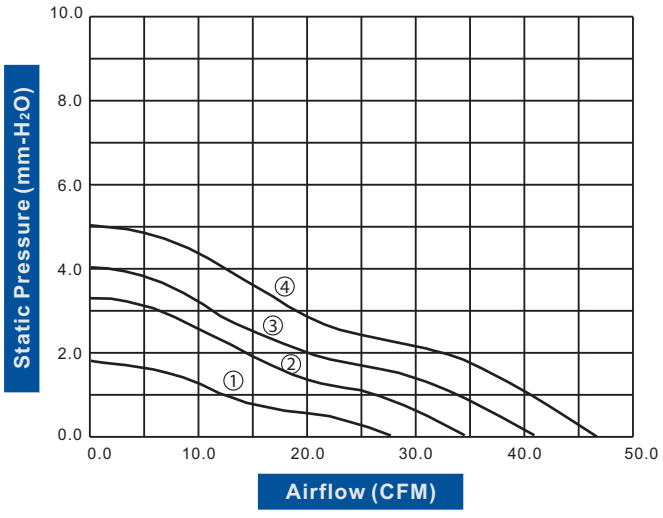
- For "Fluid Lubricant " bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



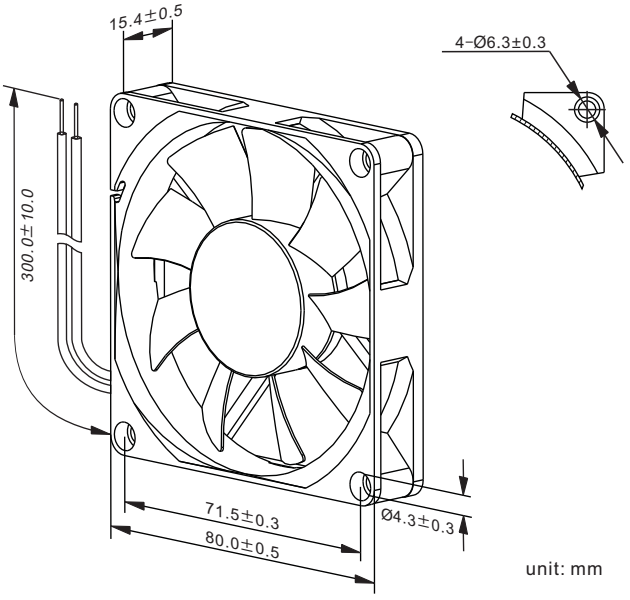
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 64 g Packing: 100PCS/CTN

ES SF

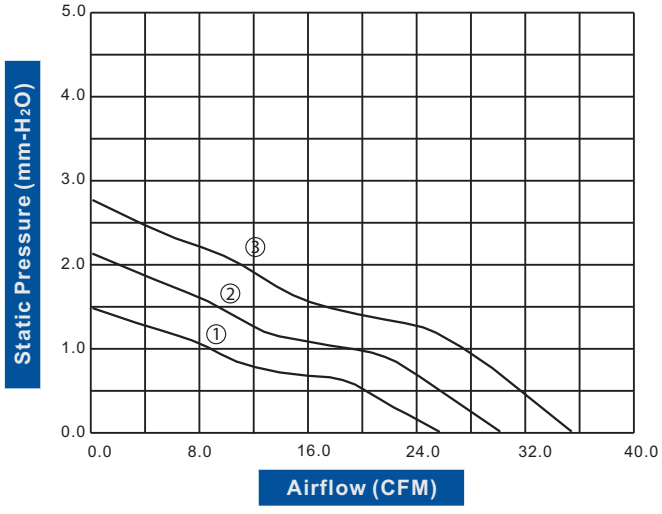
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8015B05W3-83 | 5 | 4.0~5.75 | 25.50 | 1.50 | 22.20 | 2,100 | 140 | 0.70 | B,F | ① |
| FD8015B05W5-83 | 5 | 4.0~5.75 | 30.90 | 2.10 | 26.10 | 2,500 | 190 | 0.95 | B,F | ② |
| FD8015B05W7-83 | 5 | 4.0~5.75 | 36.00 | 2.80 | 31.00 | 2,900 | 330 | 1.65 | B,F | ③ |
| FD8015B12W3-83 ★ | 12 | 6.0~13.8 | 25.50 | 1.50 | 22.20 | 2,100 | 70 | 0.84 | B,F | ① |
| FD8015B12W5-83 ★ | 12 | 6.0~13.8 | 30.90 | 2.10 | 26.10 | 2,500 | 100 | 1.20 | B,F | ② |
| FD8015B12W7-83 ★ | 12 | 6.0~13.8 | 36.00 | 2.80 | 31.00 | 2,900 | 140 | 1.68 | B,F | ③ |
| FD8015B24W5-83 ★ | 24 | 12.0~27.6 | 30.90 | 2.10 | 26.10 | 2,500 | 60 | 1.44 | B,F | ② |
| FD8015B24W7-83 ★ | 24 | 12.0~26.0 | 36.00 | 2.80 | 31.00 | 2,900 | 110 | 2.64 | B,F | ③ |

- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 80x80x15mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 59 g Packing: 100PCS/CTN

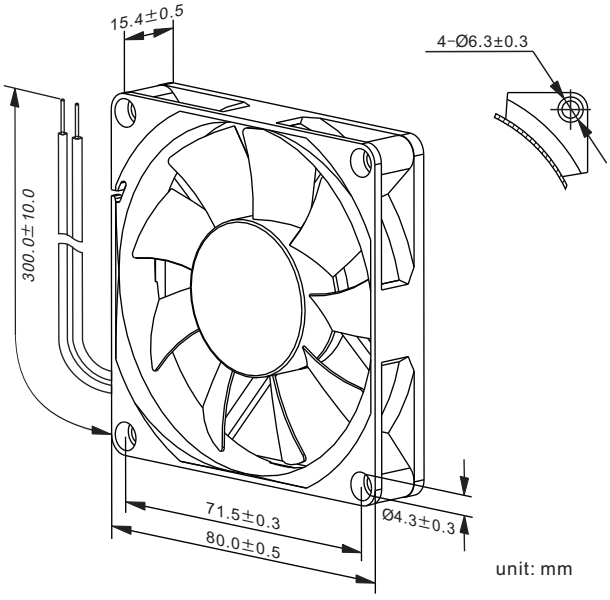
ES SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8015B05W3-84 | ★ | 5 | 4.5~5.5 | 32.80 | 2.50 | 28.10 | 2,600 | 160 | 0.80 | B,F | ① |
| FD8015B05W5-84 | ★ | 5 | 4.5~5.5 | 38.90 | 3.30 | 34.50 | 3,100 | 260 | 1.30 | B,F | ② |
| FD8015B12W3-84 | ★▲ | 12 | 6.0~13.8 | 32.80 | 2.50 | 28.10 | 2,600 | 90 | 1.08 | B,F | ① |
| FD8015B12W5-84 | ★▲ | 12 | 6.0~13.8 | 38.90 | 3.30 | 34.50 | 3,100 | 160 | 1.80 | B,F | ② |
| FD8015B12W7-84 | ★▲ | 12 | 6.0~13.8 | 44.70 | 4.20 | 37.40 | 3,500 | 180 | 2.16 | B,F | ③ |

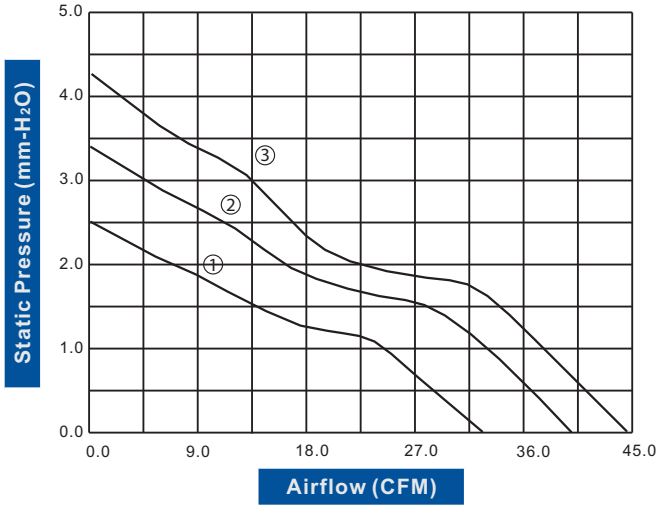
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



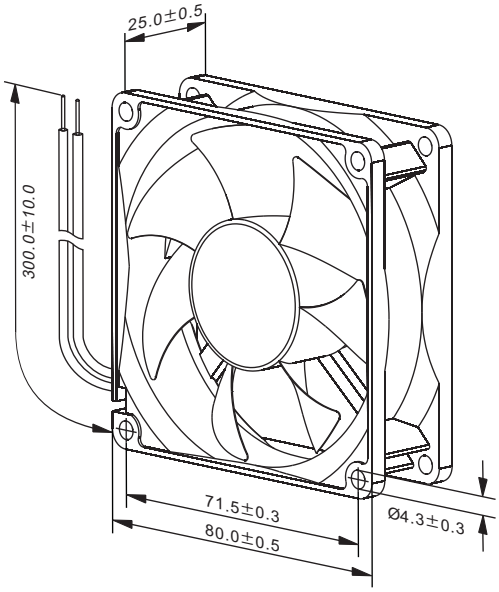
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 100 g **Packing:** 100PCS/CTN

ES IP SF

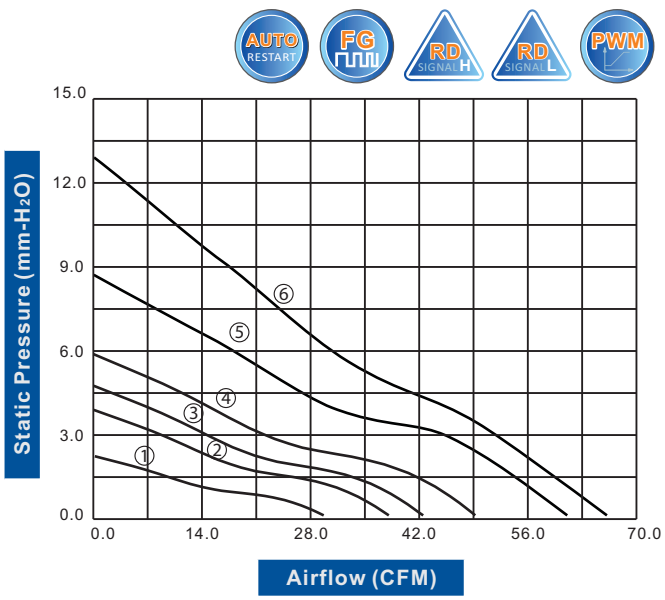
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8025B12W3-21 | ▲ | 12 | 7.0~13.2 | 29.20 | 2.20 | 26.60 | 2,300 | 80 | 0.96 | B,S | ① |
| FD8025B12W5-21 | ▲ | 12 | 7.0~13.2 | 37.50 | 3.70 | 31.50 | 2,900 | 130 | 1.56 | B,S | ② |
| FD8025B12W7-21 | ▲ | 12 | 7.0~13.2 | 42.30 | 4.60 | 36.90 | 3,400 | 180 | 2.16 | B,S | ③ |
| FD8025B12W9-21 | ▲ | 12 | 7.0~13.2 | 49.20 | 5.90 | 38.90 | 3,700 | 250 | 3.00 | B,S | ④ |
| FD8025B12W11-21 | ▲ | 12 | 7.0~13.2 | 60.50 | 8.90 | 43.30 | 4,500 | 390 | 4.68 | B,S | ⑤ |
| FD8025B12W12-21 | ★▲ | 12 | 7.0~13.2 | 65.10 | 12.70 | 47.30 | 5,500 | 500 | 6.00 | B,S | ⑥ |
| FD8025B24W3-21 | ▲ | 24 | 12.0~26.4 | 29.20 | 2.20 | 26.60 | 2,300 | 60 | 1.44 | B,S | ① |
| FD8025B24W5-21 | ▲ | 24 | 12.0~26.4 | 37.50 | 3.70 | 31.50 | 2,900 | 80 | 1.92 | B,S | ② |
| FD8025B24W7-21 | ▲ | 24 | 12.0~26.4 | 42.30 | 4.60 | 36.90 | 3,400 | 100 | 2.40 | B,S | ③ |
| FD8025B24W9-21 | ▲ | 24 | 12.0~26.4 | 49.20 | 5.90 | 38.90 | 3,700 | 140 | 3.36 | B,S | ④ |
| FD8025B24W11-21 | ▲ | 24 | 12.0~26.4 | 60.50 | 8.90 | 43.30 | 4,500 | 230 | 5.52 | B,S | ⑤ |
| FD8025B48W3-21 | ▲ | 48 | 24.0~56.0 | 37.50 | 3.70 | 31.50 | 2,900 | 45 | 2.16 | B,S | ② |
| FD8025B48W5-21 | ▲ | 48 | 24.0~56.0 | 42.30 | 4.60 | 36.90 | 3,400 | 80 | 3.84 | B,S | ③ |
| FD8025B48W7-21 | ▲ | 48 | 24.0~56.0 | 49.20 | 5.90 | 38.90 | 3,700 | 90 | 4.32 | B,S | ④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 69 g Packing: 100PCS/CTN

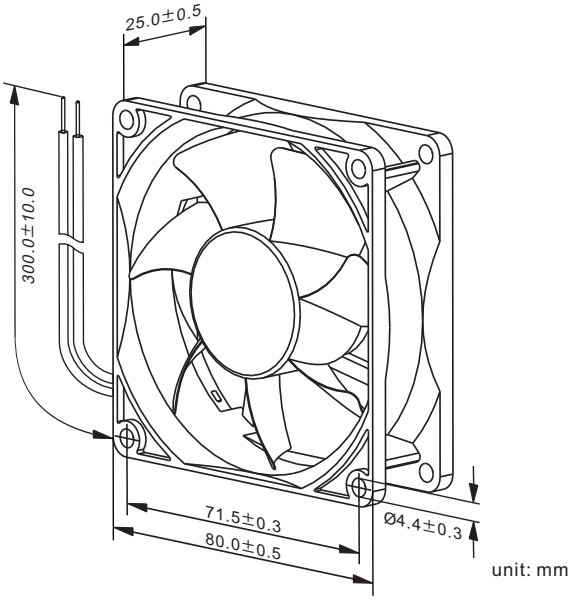
SS SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8025B05W3-71 | 5 | 4.0~5.5 | 25.80 | 1.60 | 22.10 | 2,000 | 220 | 1.10 | B,L,S | ① |
| FD8025B05W5-71 | 5 | 4.0~5.5 | 32.40 | 2.40 | 26.20 | 2,500 | 380 | 1.90 | B,L,S | ② |
| FD8025B05W7-71 | 5 | 4.0~5.5 | 38.50 | 3.40 | 30.90 | 3,000 | 400 | 2.00 | B,L,S | ③ |
| FD8025B12W3-71 | 12 | 10.8~13.2 | 25.80 | 1.60 | 22.10 | 2,000 | 90 | 1.08 | B,L,S | ① |
| FD8025B12W5-71 | 12 | 10.8~13.2 | 32.40 | 2.40 | 26.20 | 2,500 | 120 | 1.44 | B,L,S | ② |
| FD8025B12W7-71 | 12 | 10.8~13.2 | 38.50 | 3.40 | 30.90 | 3,000 | 170 | 2.04 | B,L,S | ③ |
| FD8025B24W3-71 | 24 | 17.0~28.0 | 25.80 | 1.60 | 22.10 | 2,000 | 90 | 2.16 | B,L,S | ① |
| FD8025B24W5-71 | 24 | 17.0~28.0 | 32.40 | 2.40 | 26.20 | 2,500 | 120 | 2.88 | B,L,S | ② |
| FD8025B24W7-71 | 24 | 17.0~28.0 | 38.50 | 3.40 | 30.90 | 3,000 | 150 | 3.60 | B,L,S | ③ |

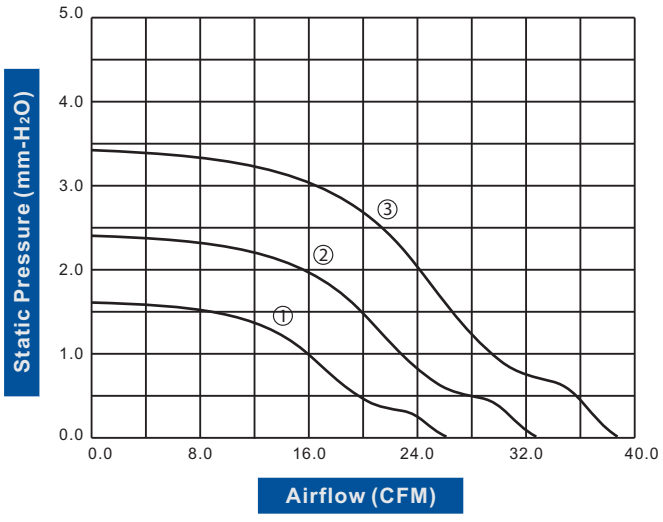
- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 67 g Packing: 100PCS/CTN

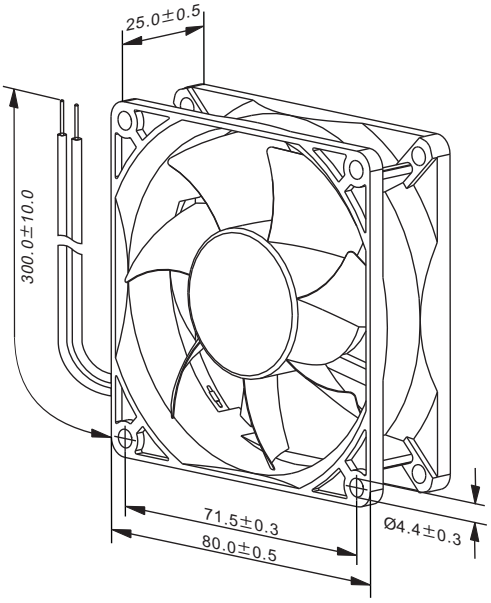
SS IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8025B12W3-73 | 12 | 10.8~13.2 | 26.60 | 2.70 | 22.40 | 1,800 | 130 | 1.56 | B,S | ① |
| FD8025B12W5-73A | 12 | 10.8~13.2 | 35.40 | 3.60 | 29.20 | 2,400 | 260 | 3.12 | B,S | ② |
| FD8025B12W5-73B | 12 | 10.8~13.2 | 44.30 | 4.50 | 31.90 | 3,000 | 260 | 3.12 | B,S | ③ |
| FD8025B12W7-73A | 12 | 10.8~13.2 | 53.10 | 5.60 | 39.20 | 3,600 | 510 | 6.12 | B,S | ④ |
| FD8025B12W7-73B | 12 | 10.8~13.2 | 62.00 | 7.40 | 43.30 | 4,200 | 510 | 6.12 | B,S | ⑤ |
| FD8025B12W7-73C | 12 | 10.8~13.2 | 70.80 | 8.50 | 47.00 | 4,800 | 510 | 6.12 | B,S | ⑥ |
| FD8025B24W3-73 | 24 | 12.0~27.6 | 26.60 | 2.70 | 22.40 | 1,800 | 110 | 2.64 | B,S | ① |
| FD8025B24W5-73A | 24 | 12.0~27.6 | 35.40 | 3.60 | 29.20 | 2,400 | 220 | 5.28 | B,S | ② |
| FD8025B24W5-73B | 24 | 12.0~27.6 | 44.30 | 4.50 | 31.90 | 3,000 | 220 | 5.28 | B,S | ③ |
| FD8025B24W7-73A | 24 | 12.0~27.6 | 53.10 | 5.60 | 39.20 | 3,600 | 380 | 9.12 | B,S | ④ |
| FD8025B24W7-73B | 24 | 12.0~27.6 | 62.00 | 7.40 | 43.30 | 4,200 | 380 | 9.12 | B,S | ⑤ |
| FD8025B24W7-73C | 24 | 12.0~27.6 | 70.80 | 8.50 | 47.00 | 4,800 | 380 | 9.12 | B,S | ⑥ |

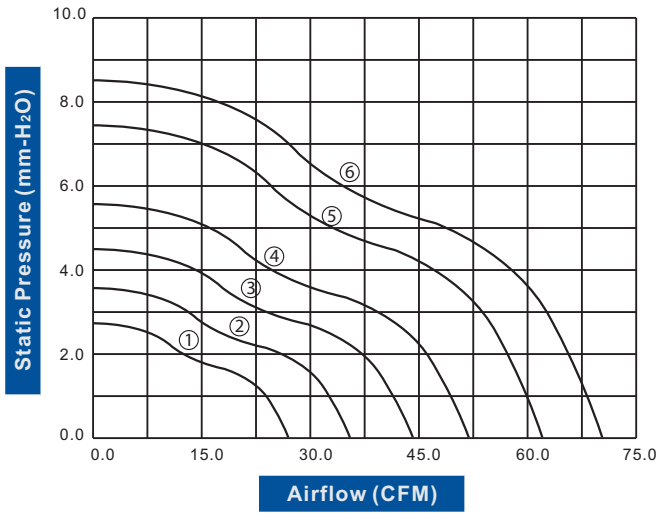
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 78 g Packing: 100PCS/CTN

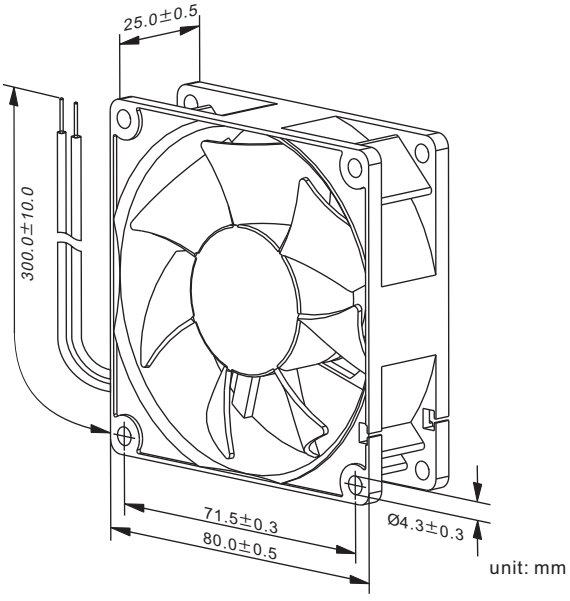
SS IP SF

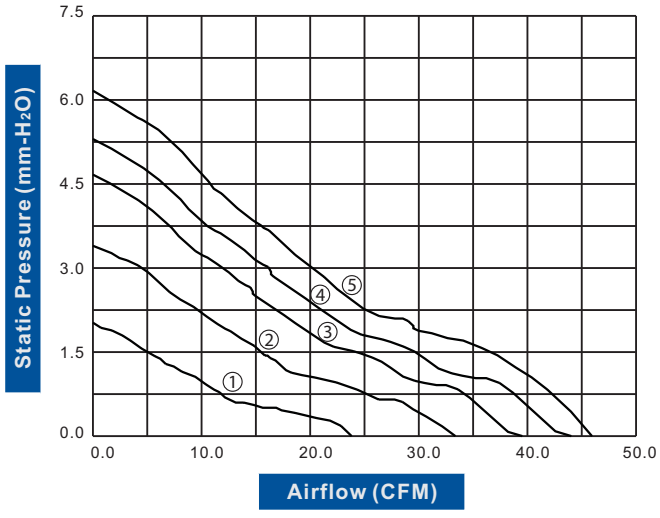
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8025B12W3-75 | | 12 | 7.0~13.8 | 23.40 | 1.90 | 24.00 | 2,100 | 170 | 2.04 | B,S | ① |
| FD8025B12W5-75 | | 12 | 7.0~13.8 | 33.30 | 3.40 | 34.60 | 3,000 | 250 | 3.00 | B,S | ② |
| FD8025B12W7-75 | | 12 | 7.0~13.8 | 43.80 | 5.30 | 40.60 | 3,900 | 340 | 4.08 | B,S | ④ |
| FD8025B12W9-75 | | 12 | 7.0~13.8 | 46.10 | 6.10 | 42.80 | 4,200 | 350 | 4.20 | B,S | ⑤ |
| FD8025B24W3-75 | ※ | 24 | 12.0~27.6 | 23.40 | 1.90 | 24.00 | 2,100 | 90 | 2.16 | B,S | ① |
| FD8025B24W5-75 | ※ | 24 | 12.0~27.6 | 33.30 | 3.40 | 34.60 | 3,000 | 160 | 3.84 | B,S | ② |
| FD8025B24W7-75 | ※ | 24 | 12.0~27.6 | 43.80 | 5.30 | 40.60 | 3,900 | 260 | 6.24 | B,S | ④ |
| FD8025B24W9-75 | ※ | 24 | 12.0~27.6 | 46.10 | 6.10 | 42.80 | 4,200 | 300 | 7.20 | B,S | ⑤ |
| FD8025B48W5-75 | ※ | 48 | 24.0~56.0 | 33.30 | 3.40 | 34.60 | 3,000 | 70 | 3.36 | B,S | ② |
| FD8025B48W7-75 | ※ | 48 | 24.0~56.0 | 39.70 | 4.70 | 38.70 | 3,600 | 80 | 3.84 | B,S | ③ |
| FD8025B48W9-75 | ※ | 48 | 24.0~56.0 | 46.10 | 6.10 | 42.80 | 4,200 | 180 | 8.64 | B,S | ⑤ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "※", UL and TUV approvals can be implemented upon request.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 78 g **Packing:** 100PCS/CTN

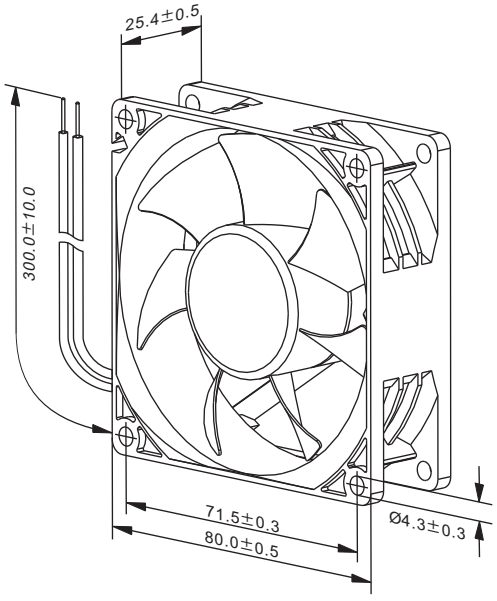
ES SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD8025B12W3-83 | 12 | 6.0~13.8 | 33.40 | 2.80 | 26.10 | 2,500 | 80 | 0.96 | B,F | ① |
| FD8025B12W5-83 | 12 | 6.0~13.8 | 40.60 | 3.90 | 32.00 | 3,000 | 110 | 1.32 | B,F | ② |
| FD8025B12W7-83 | 12 | 6.0~13.8 | 45.30 | 4.70 | 34.50 | 3,400 | 170 | 2.04 | B,F | ③ |
| FD8025B24W3-83 | 24 | 12.0~27.6 | 33.40 | 2.80 | 26.10 | 2,500 | 50 | 1.20 | B,F | ① |
| FD8025B24W5-83 | 24 | 12.0~27.6 | 40.60 | 3.90 | 32.00 | 3,000 | 70 | 1.68 | B,F | ② |
| FD8025B24W7-83 | 24 | 12.0~27.6 | 45.30 | 4.70 | 34.50 | 3,400 | 80 | 1.92 | B,F | ③ |

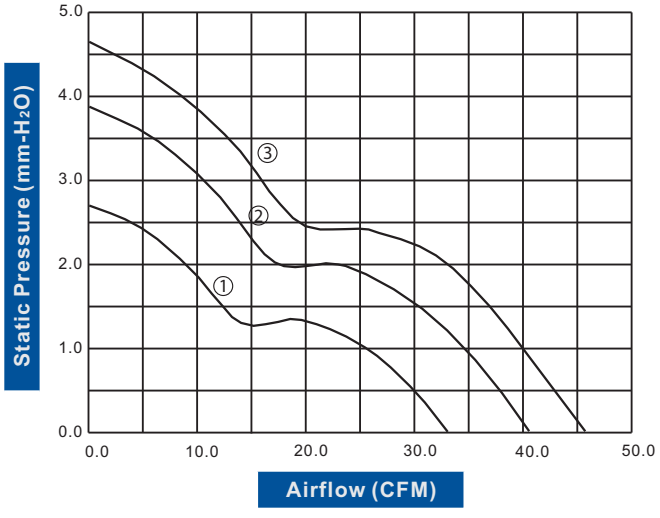
- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



# DC AXIAL FAN
# 80x80x25mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 92 g Packing: 100PCS/CTN

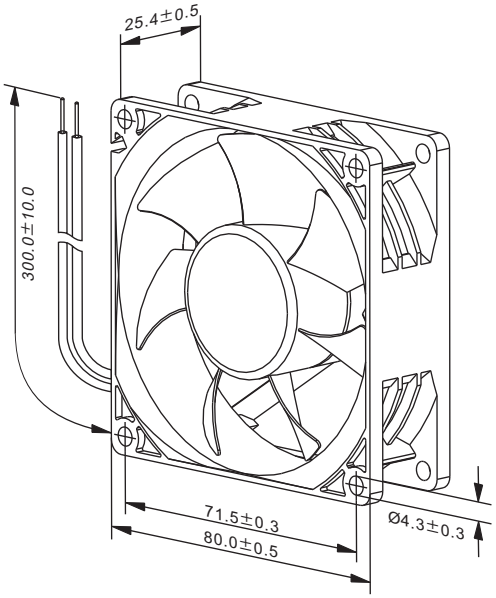
ES SF

- **High Airflow**
- **High Static Pressure**

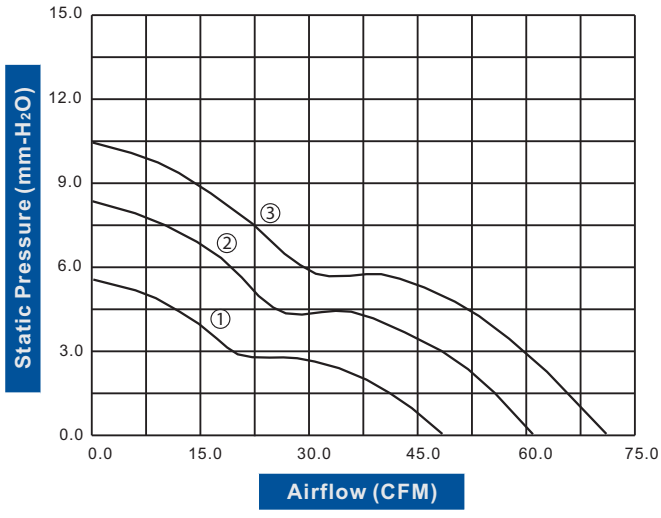
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8025B12W3-84 | ★▲ | 12 | 6.0~13.8 | 48.80 | 5.70 | 36.40 | 3,600 | 150 | 1.80 | B,F | ① |
| FD8025B12W5-84 | ★▲ | 12 | 6.0~13.8 | 60.90 | 8.60 | 42.40 | 4,500 | 220 | 2.64 | B,F | ② |
| FD8025B12W7-84 | ★▲ | 12 | 6.0~13.8 | 70.20 | 10.70 | 44.80 | 5,100 | 330 | 3.96 | B,F | ③ |

- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 80x80x25mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 91 g Packing: 100PCS/CTN

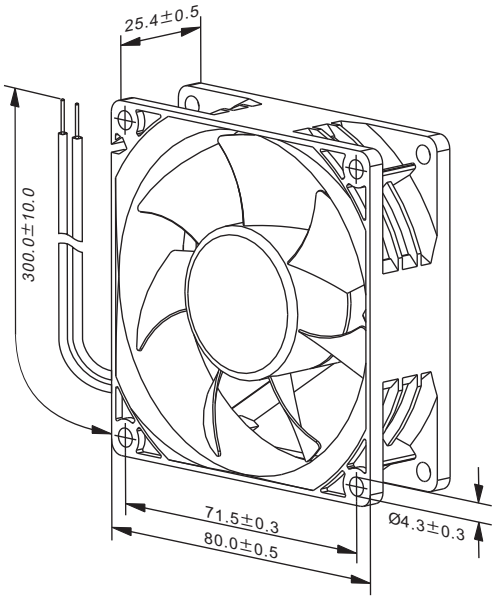
ES IP SF

- **High Airflow**
- **High Static Pressure**

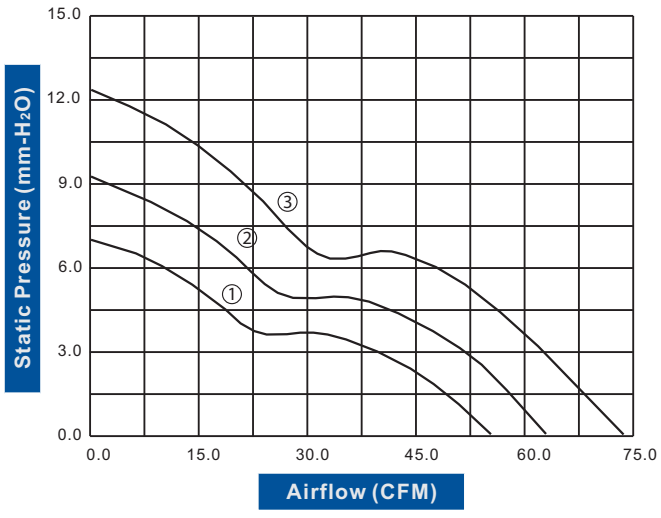
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8025B12W3-85 | ★▲ | 12 | 6.0~13.8 | 54.20 | 7.00 | 39.40 | 4,000 | 220 | 2.64 | B | ① |
| FD8025B12W5-85 | ★▲ | 12 | 6.0~13.8 | 63.00 | 9.20 | 42.80 | 4,600 | 280 | 3.36 | B | ② |
| FD8025B12W7-85 | ★▲ | 12 | 6.0~13.8 | 74.60 | 12.20 | 47.30 | 5,400 | 380 | 4.56 | B | ③ |
| FD8025B24W3-85 | ★▲ | 24 | 16.0~27.6 | 54.20 | 7.00 | 39.40 | 4,000 | 110 | 2.64 | B | ① |
| FD8025B24W5-85 | ★▲ | 24 | 16.0~27.6 | 63.00 | 9.20 | 42.80 | 4,600 | 150 | 3.60 | B | ② |
| FD8025B24W7-85 | ★▲ | 24 | 16.0~27.6 | 74.60 | 12.20 | 47.30 | 5,400 | 200 | 4.80 | B | ③ |
| FD8025B48W3-85 | ★▲ | 48 | 30.0~55.2 | 54.20 | 7.00 | 39.40 | 4,000 | 80 | 3.84 | B | ① |
| FD8025B48W5-85 | ★▲ | 48 | 30.0~55.2 | 63.00 | 9.20 | 42.80 | 4,600 | 100 | 4.80 | B | ② |
| FD8025B48W7-85 | ★▲ | 48 | 30.0~55.2 | 74.60 | 12.20 | 47.30 | 5,400 | 120 | 5.76 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 80x80x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 175 g Packing: 60PCS/CTN

ES IP SF

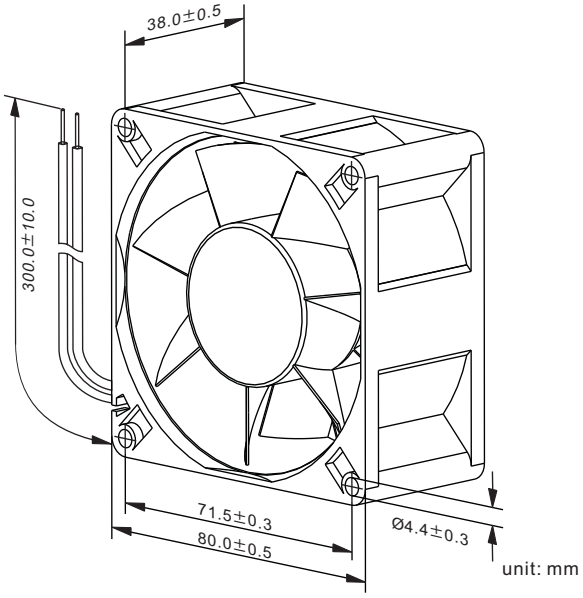
- **High Airflow**
- **High Static Pressure**

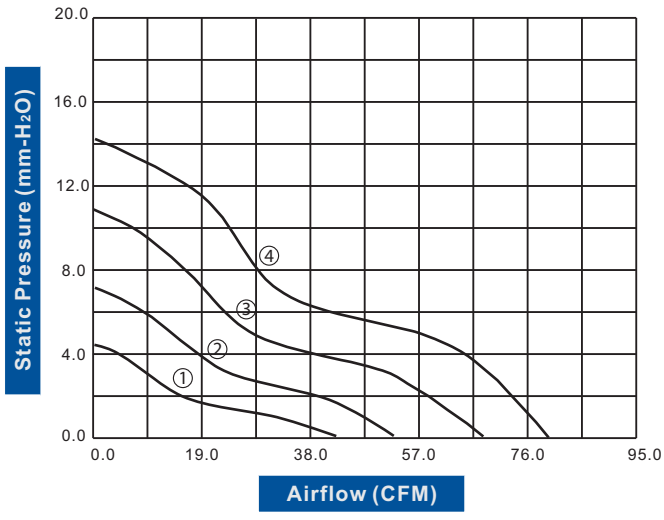
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8038B12W3-81 | ★ | 12 | 8.0~13.8 | 40.10 | 4.40 | 35.50 | 2,600 | 140 | 1.68 | B | ① |
| FD8038B12W5-81 | ★ | 12 | 8.0~13.8 | 53.20 | 7.30 | 42.40 | 3,400 | 260 | 3.12 | B | ② |
| FD8038B12W7-81 | ★ | 12 | 8.0~13.8 | 66.20 | 11.20 | 48.80 | 4,200 | 430 | 5.16 | B | ③ |
| FD8038B12W9-81 | ★ | 12 | 8.0~13.8 | 78.60 | 15.70 | 52.70 | 5,000 | 600 | 7.20 | B | ④ |
| FD8038B24W3-81 | ★ | 24 | 18.0~27.6 | 40.10 | 4.40 | 35.50 | 2,600 | 70 | 1.68 | B | ① |
| FD8038B24W5-81 | ★ | 24 | 18.0~27.6 | 53.20 | 7.30 | 42.40 | 3,400 | 160 | 3.84 | B | ② |
| FD8038B24W7-81 | ★ | 24 | 18.0~27.6 | 66.20 | 11.20 | 48.80 | 4,200 | 250 | 6.00 | B | ③ |
| FD8038B24W9-81 | ★ | 24 | 18.0~27.6 | 78.60 | 15.70 | 52.70 | 5,000 | 350 | 8.40 | B | ④ |

• If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM



# DC AXIAL FAN
# 80x80x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 215 g **Packing:** 60PCS/CTN

ES IP SF

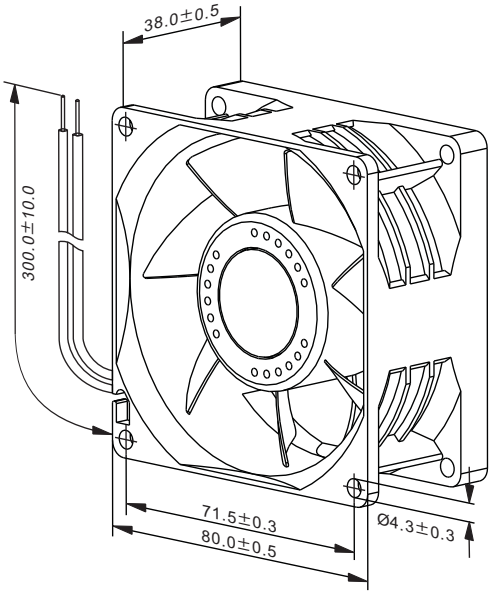
- **High Airflow**
- **Extremely High Static Pressure**

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD8038B12W3-85 | ★▲ | 12 | 6.0~13.8 | 99.10 | 28.20 | 56.10 | 7,500 | 1,460 | 17.52 | B | ① |
| FD8038B12W5-85 | ★▲ | 12 | 6.0~13.8 | 120.80 | 40.40 | 60.60 | 9,000 | 2,200 | 26.40 | B | ② |
| FD8038B12W7-85 | ★▲ | 12 | 6.0~13.8 | 136.50 | 50.70 | 64.50 | 10,200 | 3,100 | 37.20 | B | ③ |
| FD8038B24W3-85 | ★▲ | 24 | 16.0~27.6 | 99.10 | 28.20 | 56.10 | 7,500 | 680 | 16.32 | B | ① |
| FD8038B24W5-85 | ★▲ | 24 | 16.0~27.6 | 120.80 | 40.40 | 60.60 | 9,000 | 1,100 | 26.40 | B | ② |
| FD8038B24W7-85 | ★▲ | 24 | 16.0~27.6 | 136.50 | 50.70 | 64.50 | 10,200 | 1,550 | 37.20 | B | ③ |
| FD8038B48W3-85 | ★▲ | 48 | 30.0~55.2 | 99.10 | 28.20 | 56.10 | 7,500 | 350 | 16.80 | B | ① |
| FD8038B48W5-85 | ★▲ | 48 | 30.0~55.2 | 120.80 | 40.40 | 60.60 | 9,000 | 550 | 26.40 | B | ② |
| FD8038B48W7-85 | ★▲ | 48 | 30.0~55.2 | 136.50 | 50.70 | 64.50 | 10,200 | 780 | 37.44 | B | ③ |

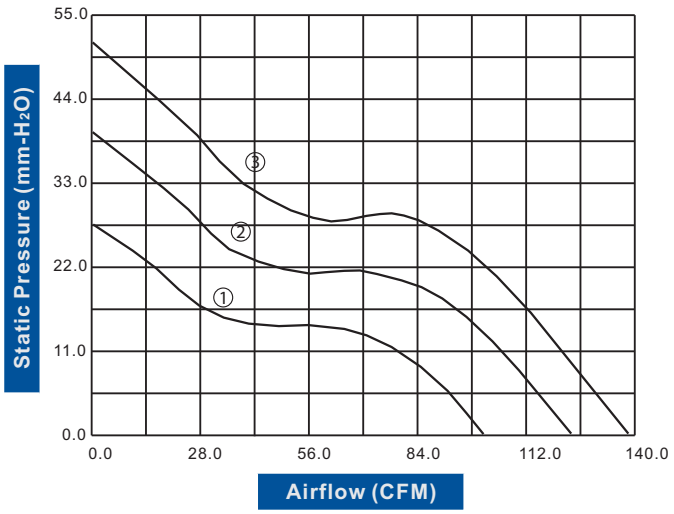
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



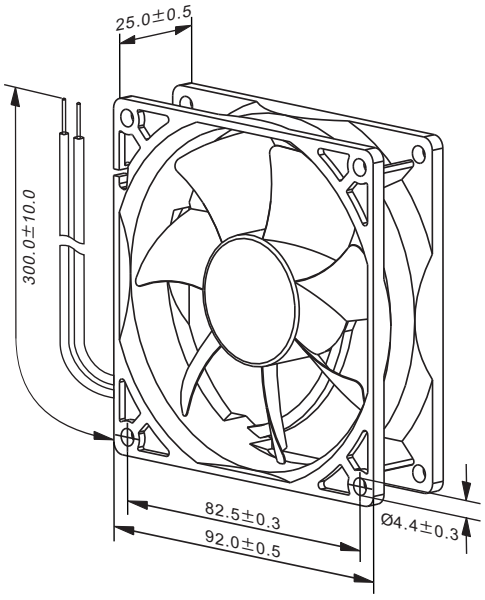
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 83 g **Packing:** 100PCS/CTN

SS SF

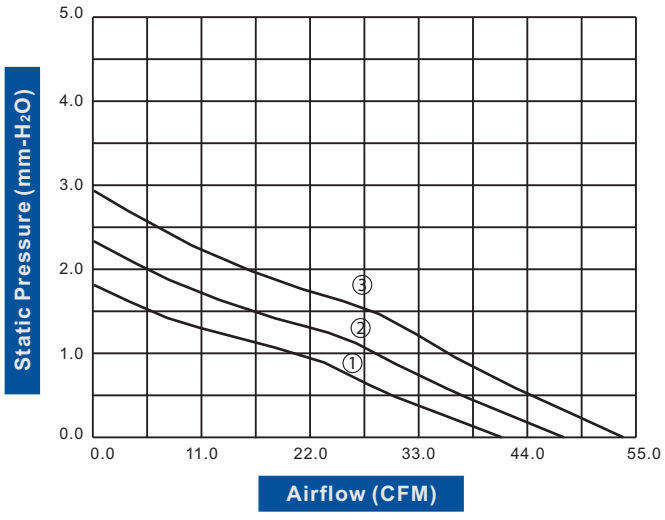
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FD9225B12W2-71 | 12 | 10.8~13.2 | 41.10 | 1.80 | 25.10 | 2,000 | 130 | 1.56 | B,L,S | ① |
| FD9225B12W3-71 | 12 | 10.8~13.2 | 47.20 | 2.30 | 27.80 | 2,300 | 190 | 2.28 | B,L,S | ② |
| FD9225B12W4-71 | 12 | 10.8~13.2 | 53.30 | 2.90 | 30.90 | 2,600 | 230 | 2.76 | B,L,S | ③ |
| FD9225B24W2-71 ※ | 24 | 17.0~28.0 | 41.10 | 1.80 | 25.10 | 2,000 | 150 | 3.60 | B,L,S | ① |
| FD9225B24W3-71 ※ | 24 | 17.0~28.0 | 47.20 | 2.30 | 27.80 | 2,300 | 180 | 4.32 | B,L,S | ② |
| FD9225B24W4-71 ※ | 24 | 17.0~28.0 | 53.30 | 2.90 | 30.90 | 2,600 | 220 | 5.28 | B,L,S | ③ |

- For "Long Life", or "Sleeve" bearing versions, change the "B" in the model number to "L", or "S" respectively.
- If model depicts "※", UL and TUV approvals can be implemented upon request.

Specifications are subject to change without notice




unit: mm



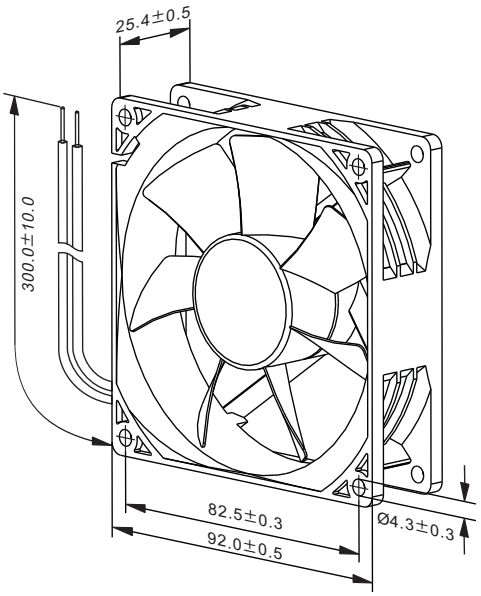
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 88 g Packing: 100PCS/CTN

ES SF

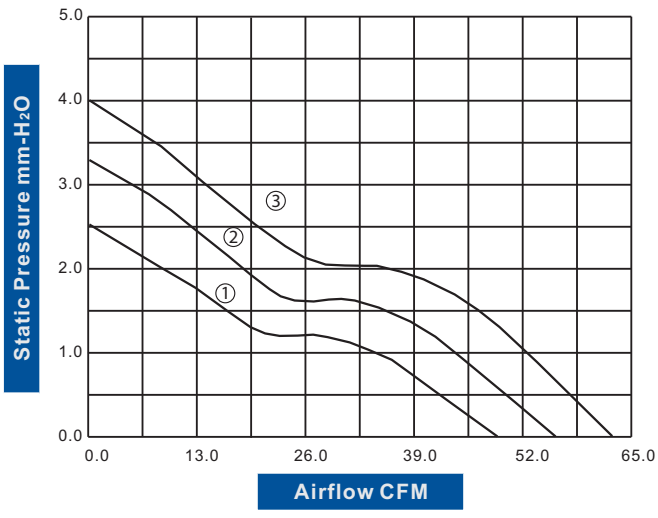
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD9225B12W3-83 | ★ | 12 | 6.0~13.8 | 49.10 | 2.50 | 28.60 | 2,100 | 90 | 1.08 | B,F | ① |
| FD9225B12W5-83 | ★ | 12 | 6.0~13.8 | 55.90 | 3.30 | 32.00 | 2,400 | 140 | 1.68 | B,F | ② |
| FD9225B12W7-83 | ★ | 12 | 6.0~13.8 | 63.90 | 4.00 | 36.00 | 2,800 | 190 | 2.28 | B,F | ③ |
| FD9225B24W3-83 | ★ | 24 | 12.0~27.6 | 49.10 | 2.50 | 28.60 | 2,100 | 50 | 1.20 | B,F | ① |
| FD9225B24W5-83 | ★ | 24 | 12.0~27.6 | 55.90 | 3.30 | 32.00 | 2,400 | 80 | 1.92 | B,F | ② |
| FD9225B24W7-83 | ★ | 24 | 12.0~27.6 | 63.90 | 4.00 | 36.00 | 2,800 | 100 | 2.40 | B,F | ③ |

- For "Fluid Lubricant" bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 106 g Packing: 100PCS/CTN

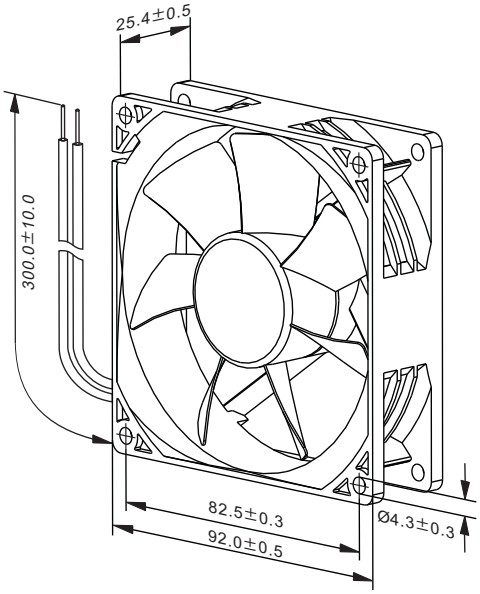
ES SF

- **High Airflow**
- **High Static Pressure**

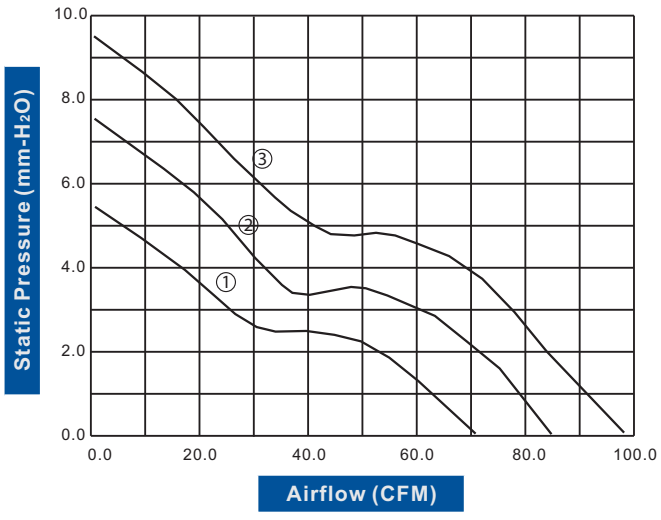
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD9225B12W3-84 | ★▲ | 12 | 6.0~13.2 | 71.60 | 5.60 | 39.90 | 3,100 | 180 | 2.16 | B,F | ① |
| FD9225B12W5-84 | ★▲ | 12 | 6.0~13.2 | 84.90 | 7.70 | 43.80 | 3,700 | 270 | 3.24 | B,F | ② |
| FD9225B12W7-84 | ★▲ | 12 | 6.0~13.2 | 97.50 | 9.50 | 47.80 | 4,200 | 400 | 4.80 | B,F | ③ |

- For "Fluid Lubricant " bearing version, change the "B" in the model number to "F".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 99 g Packing: 100PCS/CTN

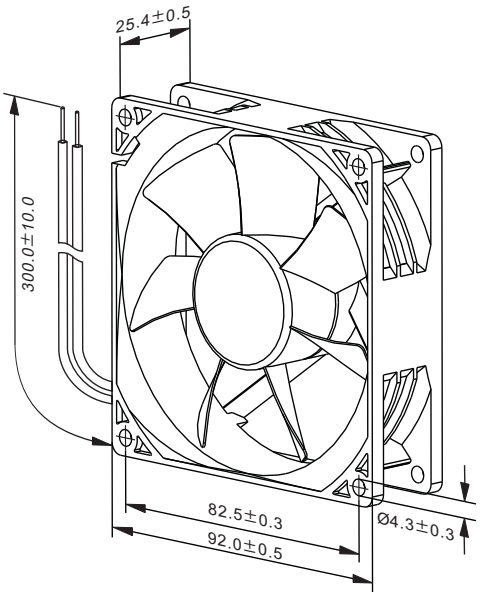
ES IP SF

- **High Airflow**
- **High Static Pressure**

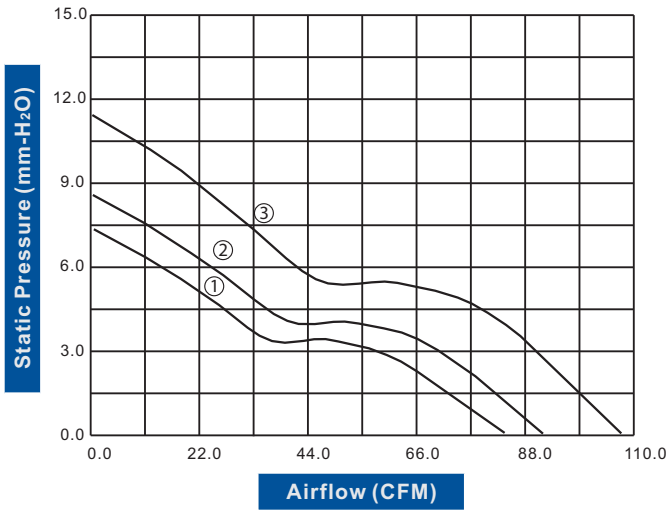
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD9225B12W3-85 | ★▲ | 12 | 6.0~13.8 | 83.70 | 7.00 | 42.80 | 3,500 | 280 | 3.36 | B | ① |
| FD9225B12W5-85 | ★▲ | 12 | 6.0~13.8 | 91.20 | 8.70 | 46.80 | 4,000 | 390 | 4.68 | B | ② |
| FD9225B12W7-85 | ★▲ | 12 | 6.0~13.8 | 108.30 | 11.60 | 50.20 | 4,600 | 610 | 7.32 | B | ③ |
| FD9225B24W3-85 | ★▲ | 24 | 16.0~27.6 | 83.70 | 7.00 | 42.80 | 3,500 | 150 | 3.60 | B | ① |
| FD9225B24W5-85 | ★▲ | 24 | 16.0~27.6 | 91.20 | 8.70 | 46.80 | 4,000 | 200 | 4.80 | B | ② |
| FD9225B24W7-85 | ★▲ | 24 | 16.0~27.6 | 108.30 | 11.60 | 50.20 | 4,600 | 290 | 6.96 | B | ③ |
| FD9225B48W3-85 | ★▲ | 48 | 30.0~55.2 | 83.70 | 7.00 | 42.80 | 3,500 | 90 | 4.32 | B | ① |
| FD9225B48W5-85 | ★▲ | 48 | 30.0~55.2 | 91.20 | 8.70 | 46.80 | 4,000 | 120 | 5.76 | B | ② |
| FD9225B48W7-85 | ★▲ | 48 | 30.0~55.2 | 108.30 | 11.60 | 50.20 | 4,600 | 180 | 8.64 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 92x92x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 173 g Packing: 60PCS/CTN

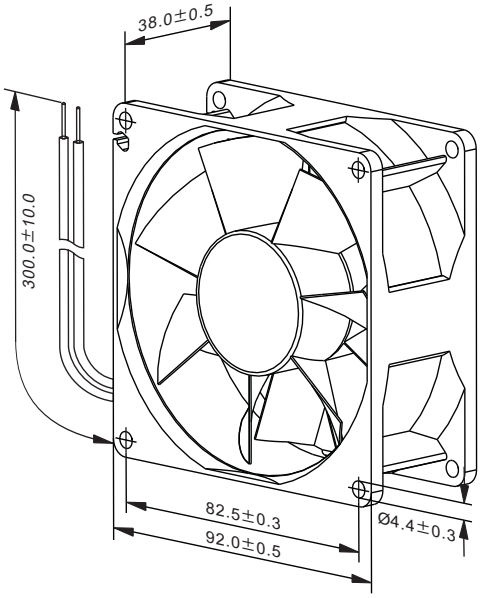
ES IP SF

- **High Airflow**
- **High Static Pressure**

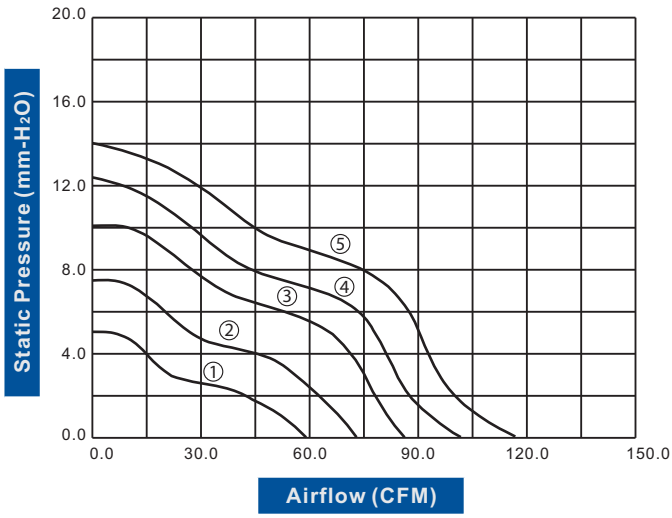
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD9238B12W3-81 | ★ | 12 | 8.0~13.8 | 58.20 | 5.10 | 38.90 | 2,600 | 220 | 2.64 | B | ① |
| FD9238B12W5-81 | ★ | 12 | 8.0~13.8 | 72.10 | 7.30 | 44.30 | 3,200 | 300 | 3.60 | B | ② |
| FD9238B12W7-81 | ★ | 12 | 8.0~13.8 | 85.30 | 10.00 | 49.30 | 3,800 | 490 | 5.88 | B | ③ |
| FD9238B12W9-81 | ★ | 12 | 8.0~13.8 | 99.40 | 13.60 | 52.70 | 4,400 | 610 | 7.32 | B | ④ |
| FD9238B12W11-81 | ★ | 12 | 8.0~13.8 | 114.40 | 17.50 | 55.70 | 5,000 | 890 | 10.68 | B | ⑤ |
| FD9238B24W3-81 | ★ | 24 | 18.0~27.6 | 58.20 | 5.10 | 38.90 | 2,600 | 120 | 2.88 | B | ① |
| FD9238B24W5-81 | ★ | 24 | 18.0~27.6 | 72.10 | 7.30 | 44.30 | 3,200 | 200 | 4.80 | B | ② |
| FD9238B24W7-81 | ★ | 24 | 18.0~27.6 | 85.30 | 10.00 | 49.30 | 3,800 | 270 | 6.48 | B | ③ |
| FD9238B24W9-81 | ★ | 24 | 18.0~27.6 | 99.40 | 13.60 | 52.70 | 4,400 | 380 | 9.12 | B | ④ |
| FD9238B24W11-81 | ★ | 24 | 18.0~27.6 | 114.40 | 17.50 | 55.70 | 5,000 | 480 | 11.52 | B | ⑤ |

- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 92x92x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 230 g **Packing:** 60PCS/CTN

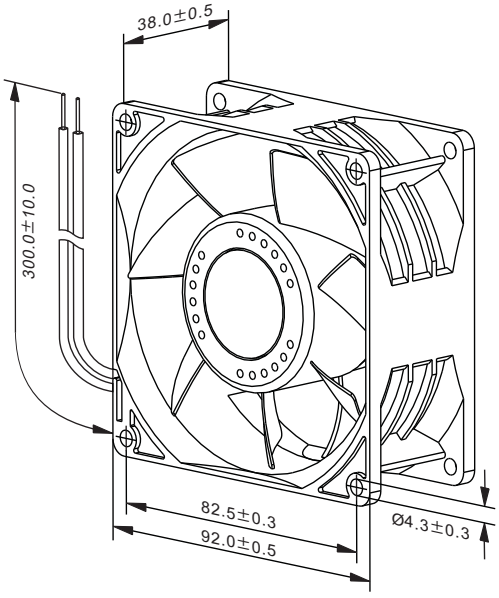
ES IP SF

- **High Airflow**
- **Extremely High Static Pressure**

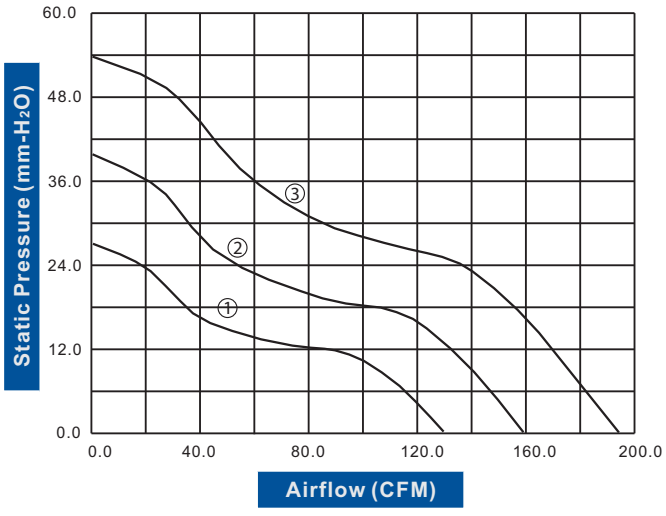
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD9238B12W3-85 | ★▲ | 12 | 6.0~13.8 | 131.30 | 27.20 | 54.20 | 6,200 | 1,500 | 18.00 | B | ① |
| FD9238B12W5-85 | ★▲ | 12 | 6.0~13.8 | 159.80 | 39.10 | 58.10 | 7,500 | 2,300 | 27.60 | B | ② |
| FD9238B12W7-85 | ★▲ | 12 | 6.0~13.2 | 193.40 | 53.00 | 64.00 | 9,000 | 4,000 | 48.00 | B | ③ |
| FD9238B24W3-85 | ★▲ | 24 | 16.0~27.6 | 131.30 | 27.20 | 54.20 | 6,200 | 670 | 16.08 | B | ① |
| FD9238B24W5-85 | ★▲ | 24 | 16.0~27.6 | 159.80 | 39.10 | 58.10 | 7,500 | 1,150 | 27.60 | B | ② |
| FD9238B24W7-85 | ★▲ | 24 | 16.0~27.6 | 193.40 | 53.00 | 64.00 | 9,000 | 2,000 | 48.00 | B | ③ |
| FD9238B48W3-85 | ★▲ | 48 | 30.0~55.2 | 131.30 | 27.20 | 54.20 | 6,200 | 360 | 17.28 | B | ① |
| FD9238B48W5-85 | ★▲ | 48 | 30.0~55.2 | 159.80 | 39.10 | 58.10 | 7,500 | 550 | 26.40 | B | ② |
| FD9238B48W7-85 | ★▲ | 48 | 30.0~55.2 | 193.40 | 53.00 | 64.00 | 9,000 | 950 | 45.60 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



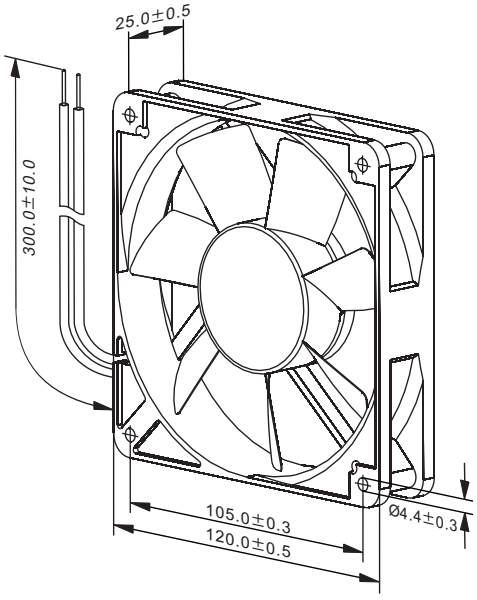
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 164 g **Packing:** 60PCS/CTN

SS IP SF

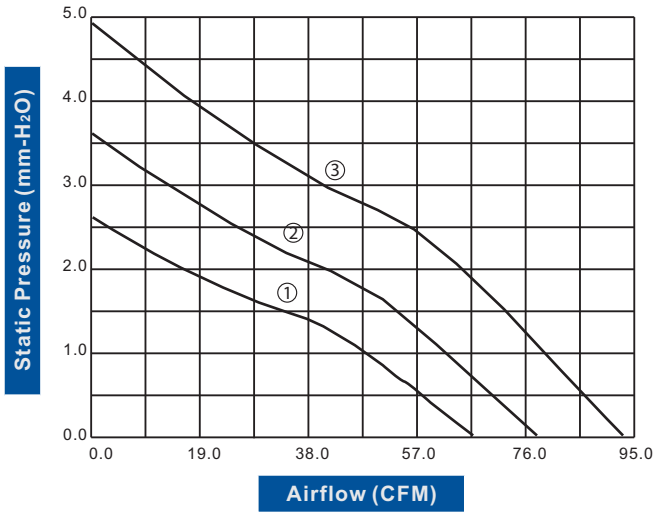
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1225B12W2-61 | ▲ | 12 | 6.0~13.8 | 66.10 | 2.60 | 33.50 | 1,700 | 180 | 2.16 | B,S | ① |
| FD1225B12W3-61 | ★▲ | 12 | 6.0~13.8 | 78.10 | 3.60 | 37.40 | 2,000 | 230 | 2.76 | B,S | ② |
| FD1225B12W5-61 | ★▲ | 12 | 6.0~13.8 | 93.00 | 4.90 | 43.30 | 2,400 | 340 | 4.08 | B,S | ③ |
| FD1225B24W2-61 | ▲ | 24 | 12.0~27.6 | 66.10 | 2.60 | 33.50 | 1,700 | 110 | 2.64 | B,S | ① |
| FD1225B24W3-61 | ★▲ | 24 | 12.0~27.6 | 78.10 | 3.60 | 37.40 | 2,000 | 170 | 4.08 | B,S | ② |
| FD1225B24W5-61 | ★▲ | 24 | 12.0~27.6 | 93.00 | 4.90 | 43.30 | 2,400 | 280 | 6.72 | B,S | ③ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 120x120x25mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~75℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 143 g **Packing:** 60PCS/CTN

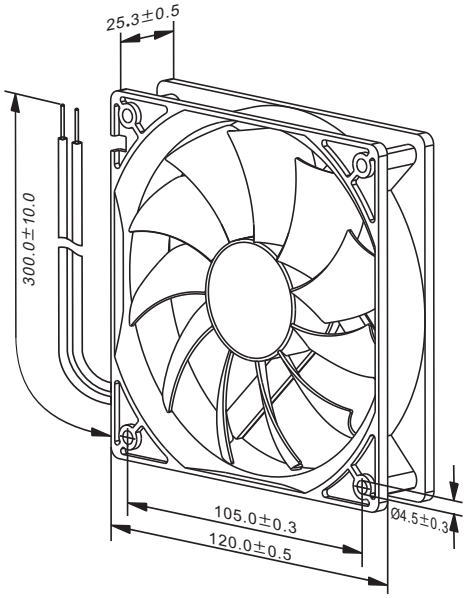
SS IP SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1225B12W3-75 | | 12 | 7.0~13.8 | 56.70 | 1.30 | 30.70 | 1,400 | 330 | 3.96 | B,S | ① |
| FD1225B12W5-75A | ★ | 12 | 7.0~13.8 | 72.90 | 2.10 | 36.10 | 1,800 | 450 | 5.40 | B,S | ② |
| FD1225B12W5-75B | ★ | 12 | 7.0~13.8 | 89.10 | 3.10 | 40.50 | 2,200 | 450 | 5.40 | B,S | ③ |
| FD1225B12W7-75 | ★ | 12 | 7.0~13.8 | 105.30 | 4.30 | 44.10 | 2,600 | 580 | 6.96 | B,S | ④ |
| FD1225B24W3-75 | | 24 | 12.0~25.6 | 56.70 | 1.30 | 30.70 | 1,400 | 140 | 3.36 | B,S | ① |
| FD1225B24W5-75A | ★ | 24 | 12.0~25.6 | 72.90 | 2.10 | 36.10 | 1,800 | 200 | 4.80 | B,S | ② |
| FD1225B24W5-75B | ★ | 24 | 12.0~25.6 | 89.10 | 3.10 | 40.50 | 2,200 | 200 | 4.80 | B,S | ③ |
| FD1225B24W7-75 | ★ | 24 | 12.0~25.6 | 105.30 | 4.30 | 44.10 | 2,600 | 280 | 6.72 | B,S | ④ |

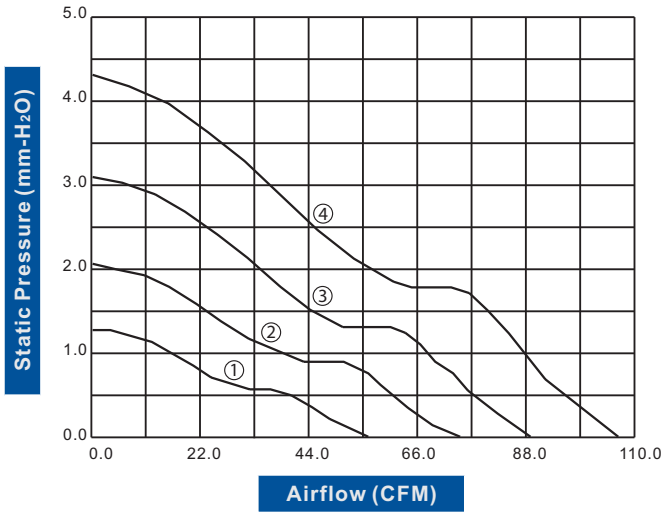
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART | FG | RD SIGNAL H | RD SIGNAL L | PWM




unit: mm



# DC AXIAL FAN
# 120x120x25mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 230 g **Packing:** 60PCS/CTN

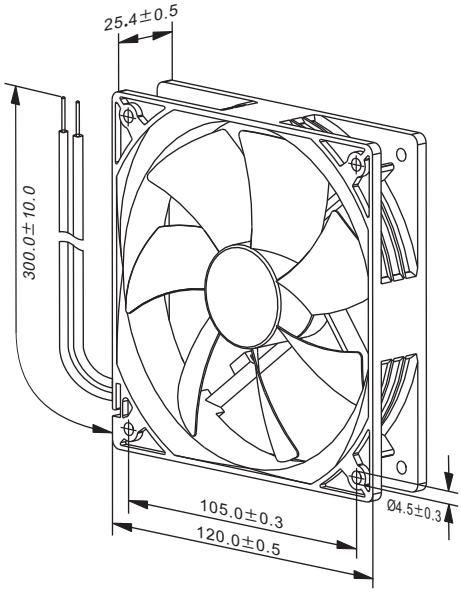
ES IP SF

- **High Airflow**
- **Extremely High Static Pressure**

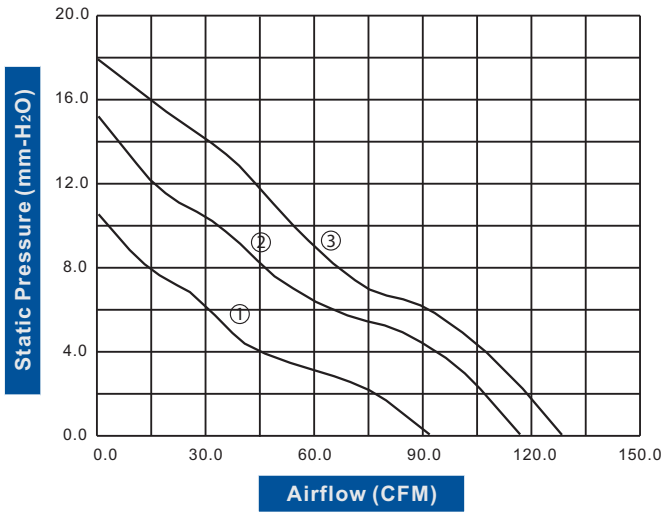
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1225B12W3-84 | ★▲ | 12 | 6.0~13.8 | 93.20 | 10.60 | 41.40 | 2,900 | 280 | 3.36 | B | ① |
| FD1225B12W5-84 | ★▲ | 12 | 6.0~13.8 | 110.60 | 15.40 | 46.30 | 3,500 | 390 | 4.68 | B | ② |
| FD1225B12W7-84 | ★▲ | 12 | 6.0~13.8 | 128.80 | 17.90 | 50.70 | 4,100 | 590 | 7.08 | B | ③ |
| FD1225B24W3-84 | ★▲ | 24 | 16.0~27.6 | 93.20 | 10.60 | 41.40 | 2,900 | 150 | 3.60 | B | ① |
| FD1225B24W5-84 | ★▲ | 24 | 16.0~27.6 | 110.60 | 15.40 | 46.30 | 3,500 | 210 | 5.04 | B | ② |
| FD1225B24W7-84 | ★▲ | 24 | 16.0~27.6 | 128.80 | 17.90 | 50.70 | 4,100 | 310 | 7.44 | B | ③ |
| FD1225B48W3-84 | ★▲ | 48 | 30.0~55.2 | 93.20 | 10.60 | 41.40 | 2,900 | 80 | 3.84 | B | ① |
| FD1225B48W5-84 | ★▲ | 48 | 30.0~55.2 | 110.60 | 15.40 | 46.30 | 3,500 | 120 | 5.76 | B | ② |
| FD1225B48W7-84 | ★▲ | 48 | 30.0~55.2 | 128.80 | 17.90 | 50.70 | 4,100 | 170 | 8.16 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



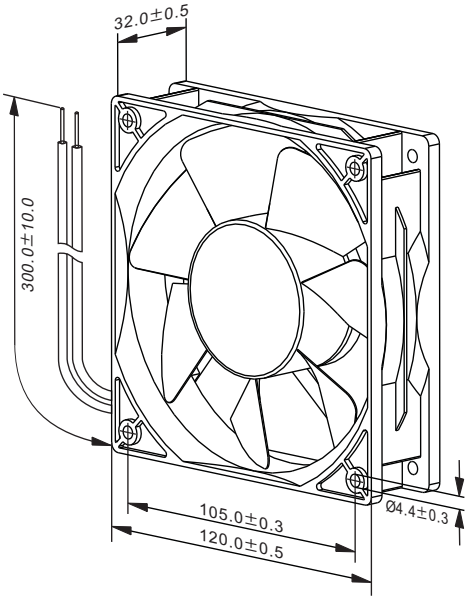
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #22 AWG
Weight: 250 g Packing: 40PCS/CTN

SS IP SF

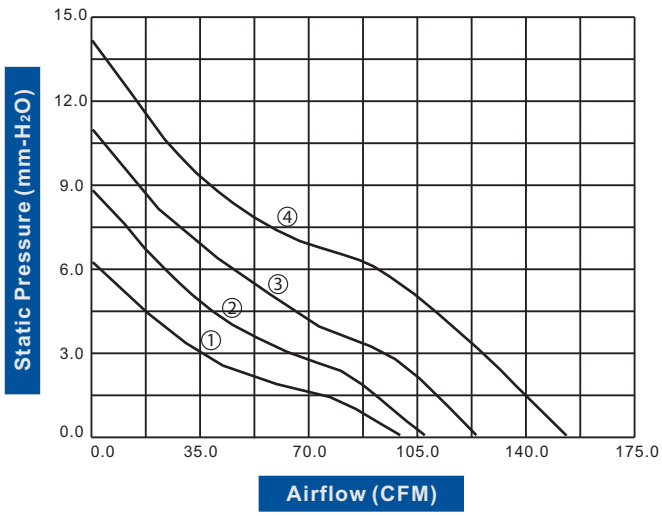
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1232B12W3-61 | ★ | 12 | 6.0~13.8 | 94.40 | 7.00 | 43.30 | 2,900 | 320 | 3.84 | B,S | ① |
| FD1232B12W5-61 | ★ | 12 | 6.0~13.8 | 108.20 | 8.70 | 47.30 | 3,300 | 500 | 6.00 | B,S | ② |
| FD1232B12W7-61 | ★ | 12 | 6.0~13.8 | 122.20 | 10.90 | 50.20 | 3,750 | 600 | 7.20 | B,S | ③ |
| FD1232B24W3-61 | ★ | 24 | 12.0~27.6 | 94.40 | 7.00 | 43.30 | 2,900 | 160 | 3.84 | B,S | ① |
| FD1232B24W5-61 | ★ | 24 | 12.0~27.6 | 108.20 | 8.70 | 47.30 | 3,300 | 220 | 5.28 | B,S | ② |
| FD1232B24W7-61 | ★ | 24 | 12.0~27.6 | 122.20 | 10.90 | 50.20 | 3,750 | 280 | 6.72 | B,S | ③ |
| FD1232B48W3-61 | ★ | 48 | 24.0~55.2 | 94.40 | 7.00 | 43.30 | 2,900 | 130 | 6.24 | B,S | ① |
| FD1232B48W5-61 | ★ | 48 | 24.0~55.2 | 108.20 | 8.70 | 47.30 | 3,300 | 150 | 7.20 | B,S | ② |
| FD1232B48W7-61 | ★ | 48 | 24.0~55.2 | 122.20 | 10.90 | 50.20 | 3,750 | 180 | 8.64 | B,S | ③ |
| FD1232B60W9-61 | ★ | 60 | 36.0~72.0 | 153.40 | 14.00 | 54.20 | 4,400 | 300 | 18.0 | B | ④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 290 g **Packing:** 40PCS/CTN

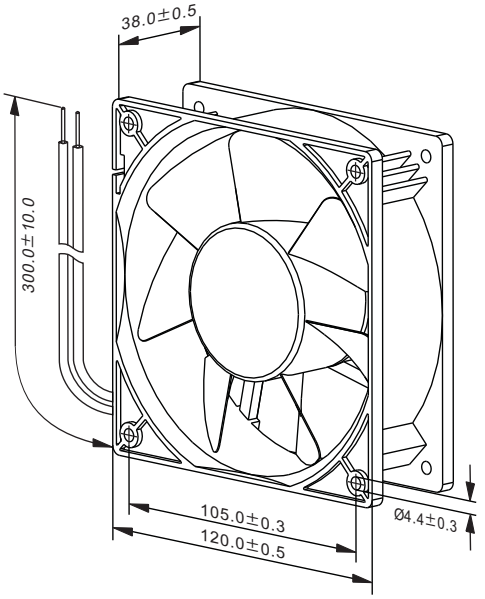
SS IP SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1238B12W2-62 | ★▲ | 12 | 6.0~13.8 | 81.60 | 4.20 | 34.50 | 2,000 | 280 | 3.36 | B,S | ① |
| FD1238B12W3-62 | ★▲ | 12 | 6.0~13.8 | 130.60 | 7.90 | 43.30 | 2,900 | 580 | 6.96 | B,S | ② |
| FD1238B12W7-62 | ★▲ | 12 | 6.0~13.8 | 156.30 | 14.80 | 51.20 | 3,800 | 1300 | 15.60 | B,S | ③ |
| FD1238B24W2-62 | ★▲ | 24 | 12.0~27.6 | 81.60 | 4.20 | 34.50 | 2,000 | 300 | 7.20 | B,S | ① |
| FD1238B24W3-62 | ★▲ | 24 | 12.0~27.6 | 130.60 | 7.49 | 43.30 | 2,900 | 400 | 9.60 | B,S | ② |
| FD1238B24W7-62 | ★▲ | 24 | 12.0~27.6 | 156.30 | 14.80 | 51.20 | 3,800 | 600 | 14.40 | B,S | ③ |
| FD1238B48W2-62 | ★▲ | 48 | 24.0~55.2 | 81.60 | 4.20 | 34.50 | 2,000 | 200 | 9.60 | B,S | ① |
| FD1238B48W3-62 | ★▲ | 48 | 24.0~55.2 | 130.60 | 7.49 | 43.30 | 2,900 | 300 | 14.40 | B,S | ② |
| FD1238B48W7-62 | ★▲ | 48 | 24.0~55.2 | 156.30 | 14.80 | 51.20 | 3,800 | 350 | 16.80 | B,S | ③ |

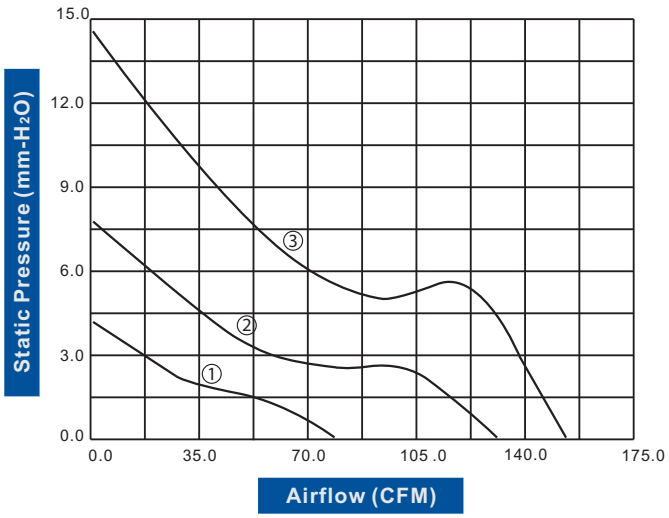
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART | FG | RD SIGNAL H | RD SIGNAL L | PWM




unit: mm



# DC AXIAL FAN
# 120x120x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 350 g **Packing:** 40PCS/CTN

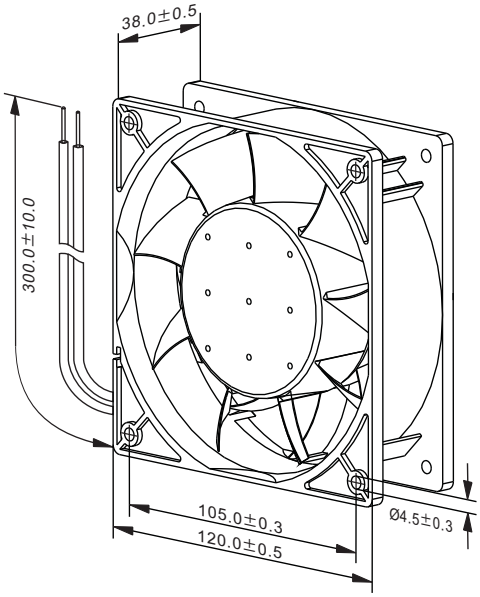
SS IP SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1238B12W2-63 | ★▲ | 12 | 6.0~13.8 | 141.90 | 12.10 | 51.20 | 3,000 | 1,500 | 18.00 | B,S | ① |
| FD1238B12W3-63 | ★▲ | 12 | 6.0~13.8 | 191.40 | 21.90 | 58.10 | 4,000 | 2,000 | 24.00 | B,S | ② |
| FD1238B12W5-63 | ★▲ | 12 | 6.0~13.8 | 229.40 | 34.90 | 64.00 | 5,000 | 3,600 | 43.20 | B,S | ③ |
| FD1238B24W2-63 | ★▲ | 24 | 12.0~27.6 | 141.90 | 12.10 | 51.20 | 3,000 | 600 | 14.40 | B,S | ① |
| FD1238B24W3-63 | ★▲ | 24 | 12.0~27.6 | 191.40 | 21.90 | 58.10 | 4,000 | 1,100 | 26.40 | B,S | ② |
| FD1238B24W5-63 | ★▲ | 24 | 12.0~27.6 | 229.40 | 34.90 | 64.00 | 5,000 | 1,700 | 40.80 | B,S | ③ |
| FD1238B48W2-63 | ★▲ | 48 | 24.0~55.2 | 141.90 | 12.10 | 51.20 | 3,000 | 330 | 15.84 | B,S | ① |
| FD1238B48W3-63 | ★▲ | 48 | 24.0~55.2 | 191.40 | 21.90 | 58.10 | 4,000 | 380 | 18.24 | B,S | ② |
| FD1238B48W5-63 | ★▲ | 48 | 24.0~55.2 | 229.40 | 34.90 | 64.00 | 5,000 | 850 | 40.80 | B,S | ③ |
| FD1238B48W7-63 | ★▲ | 48 | 24.0~55.2 | 287.20 | 47.60 | 69.00 | 6,000 | 1,300 | 62.40 | B,S | ④ |

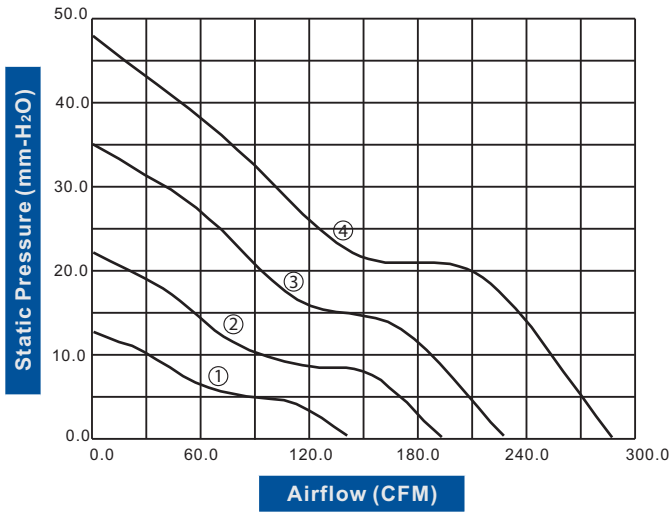
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



# DC AXIAL FAN
# 120x120x38mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 375 g **Packing:** 40PCS/CTN

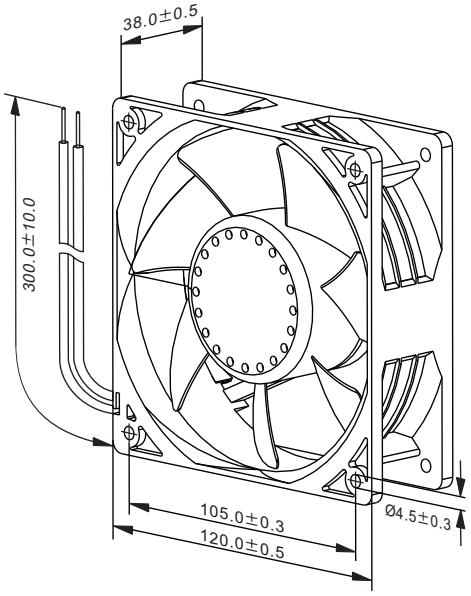
ES IP SF

- **High Airflow**
- **High Static Pressure**

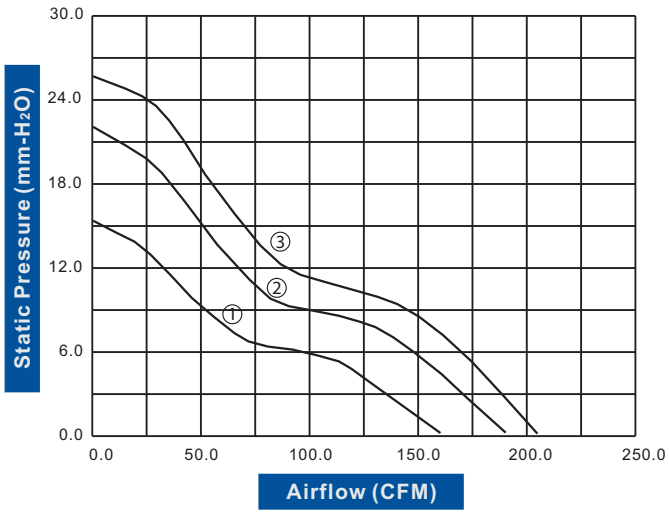
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1238B12W3-84 | ★▲ | 12 | 6.0~13.8 | 159.30 | 15.80 | 50.20 | 3,500 | 730 | 8.76 | B | ① |
| FD1238B12W5-84 | ★▲ | 12 | 6.0~13.8 | 184.80 | 21.80 | 54.70 | 4,100 | 1,080 | 12.96 | B | ② |
| FD1238B12W7-84 | ★▲ | 12 | 6.0~13.8 | 203.90 | 25.40 | 58.60 | 4,600 | 1,400 | 16.80 | B | ③ |
| FD1238B24W3-84 | ★▲ | 24 | 16.0~27.6 | 159.30 | 15.80 | 50.20 | 3,500 | 350 | 8.40 | B | ① |
| FD1238B24W5-84 | ★▲ | 24 | 16.0~27.6 | 184.80 | 21.80 | 54.70 | 4,100 | 550 | 13.20 | B | ② |
| FD1238B24W7-84 | ★▲ | 24 | 16.0~27.6 | 203.90 | 25.40 | 58.60 | 4,600 | 700 | 16.80 | B | ③ |
| FD1238B48W3-84 | ★▲ | 48 | 30.0~55.2 | 159.30 | 15.80 | 50.20 | 3,500 | 180 | 8.64 | B | ① |
| FD1238B48W5-84 | ★▲ | 48 | 30.0~55.2 | 184.80 | 21.80 | 54.70 | 4,100 | 270 | 12.96 | B | ② |
| FD1238B48W7-84 | ★▲ | 48 | 30.0~55.2 | 203.90 | 25.40 | 58.60 | 4,600 | 360 | 17.28 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 120x120x38mm
## (Stator Outlet Blade)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 415 g **Packing:** 40PCS/CTN

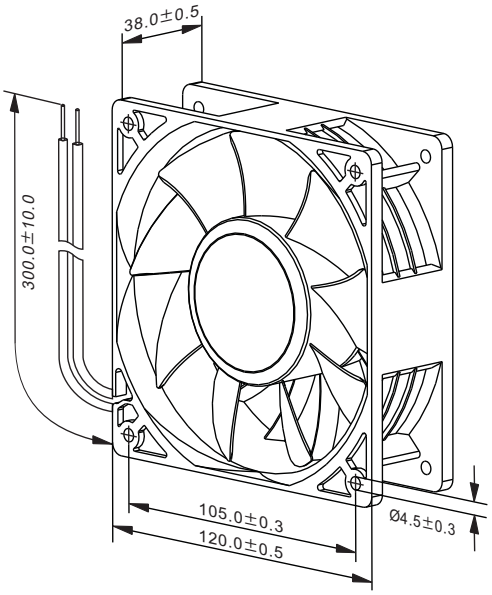
ES IP SF

- **High Airflow**
- **Extremely High Static Pressure**

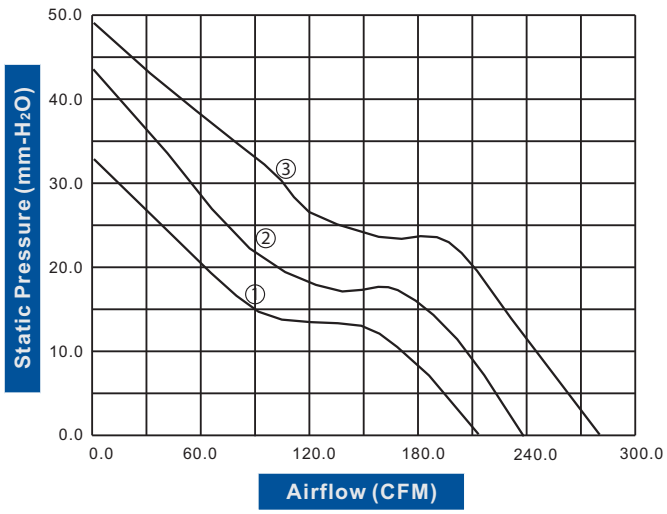
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1238B12W3-85 | ★▲ | 12 | 6.0~13.8 | 209.40 | 33.00 | 58.60 | 4,700 | 2000 | 24.00 | B | ① |
| FD1238B12W5-85 | ★▲ | 12 | 6.0~13.8 | 238.60 | 44.40 | 64.60 | 5,700 | 3000 | 36.00 | B | ② |
| FD1238B12W7-85 | ★▲ | 12 | 6.0~13.8 | 275.30 | 48.70 | 67.50 | 6,500 | 4350 | 52.20 | B | ③ |
| FD1238B24W3-85 | ★▲ | 24 | 16.0~27.6 | 209.40 | 33.00 | 58.60 | 4,700 | 860 | 20.64 | B | ① |
| FD1238B24W5-85 | ★▲ | 24 | 16.0~27.6 | 238.60 | 44.40 | 64.60 | 5,700 | 1400 | 33.60 | B | ② |
| FD1238B24W7-85 | ★▲ | 24 | 16.0~27.6 | 275.30 | 48.70 | 67.50 | 6,500 | 2100 | 50.40 | B | ③ |
| FD1238B48W3-85 | ★▲ | 48 | 30.0~55.2 | 209.40 | 33.00 | 58.60 | 4,700 | 430 | 20.64 | B | ① |
| FD1238B48W5-85 | ★▲ | 48 | 30.0~55.2 | 238.60 | 44.40 | 64.60 | 5,700 | 700 | 33.60 | B | ② |
| FD1238B48W7-85 | ★▲ | 48 | 30.0~55.2 | 275.30 | 48.70 | 67.50 | 6,500 | 1000 | 48.00 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 172x150x51mm
## (Metal Housing)

Housing: Die-Cast Aluminum
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #22 AWG
Weight: 792 g **Packing:** 20PCS/CTN

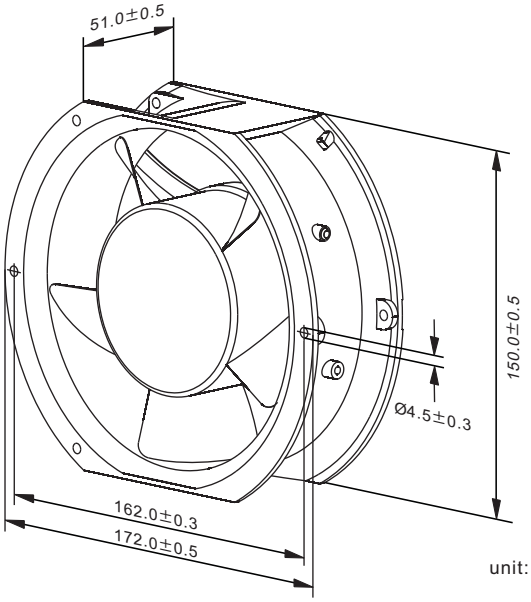
ES IP SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1751B12W3-52 | ★▲ | 12 | 10.0~13.8 | 150.00 | 8.60 | 46.00 | 2,200 | 600 | 7.20 | B | ① |
| FD1751B12W5-52 | ★▲ | 12 | 10.0~13.8 | 174.00 | 11.20 | 52.00 | 2,600 | 860 | 10.32 | B | ② |
| FD1751B12W7-52 | ★▲ | 12 | 10.0~13.8 | 206.00 | 15.40 | 56.00 | 3,000 | 1,400 | 16.80 | B | ③ |
| FD1751B12W9-52 | ★▲ | 12 | 10.0~13.8 | 228.00 | 17.90 | 58.00 | 3,400 | 1,900 | 22.80 | B | ④ |
| FD1751B24W3-52 | ★▲ | 24 | 20.0~28.0 | 150.00 | 8.60 | 46.00 | 2,200 | 300 | 7.20 | B | ① |
| FD1751B24W5-52 | ★▲ | 24 | 20.0~28.0 | 174.00 | 11.20 | 52.00 | 2,600 | 430 | 10.32 | B | ② |
| FD1751B24W7-52 | ★▲ | 24 | 20.0~28.0 | 206.00 | 15.40 | 56.00 | 3,000 | 650 | 15.60 | B | ③ |
| FD1751B24W9-52 | ★▲ | 24 | 20.0~28.0 | 228.00 | 17.90 | 58.00 | 3,400 | 900 | 21.60 | B | ④ |
| FD1751B48W3-52 | ★▲ | 48 | 25.0~52.0 | 150.00 | 8.60 | 46.00 | 2,200 | 190 | 9.12 | B | ① |
| FD1751B48W5-52 | ★▲ | 48 | 25.0~52.0 | 174.00 | 11.20 | 52.00 | 2,600 | 280 | 13.44 | B | ② |
| FD1751B48W7-52 | ★▲ | 48 | 25.0~52.0 | 206.00 | 15.40 | 56.00 | 3,000 | 400 | 19.20 | B | ③ |
| FD1751B48W9-52 | ★▲ | 48 | 25.0~52.0 | 228.00 | 17.90 | 58.00 | 3,400 | 520 | 24.96 | B | ④ |

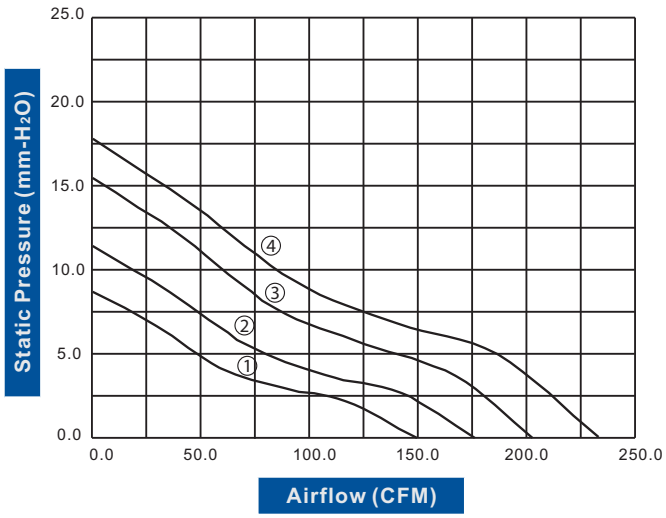
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L




unit: mm



# DC AXIAL FAN
# 172x150x51mm
## (Metal Housing)

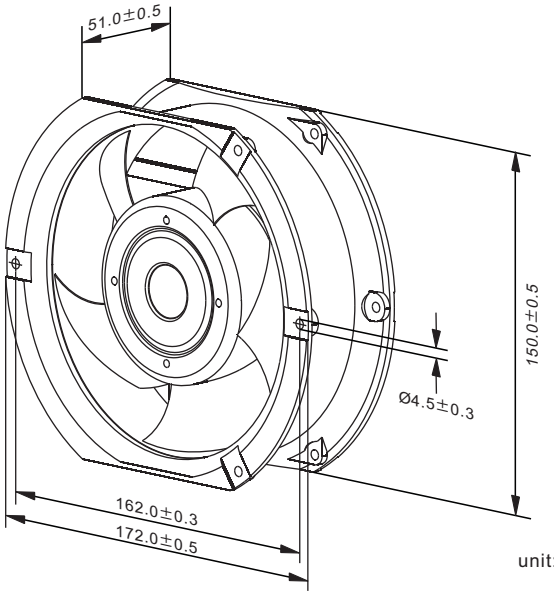
Housing: Die-cast Aluminum
Blade: Thermoplastic PBT, UL 94V-2
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #22 AWG
Weight: 735 g Packing: 16PCS/CTN

SS IP SF

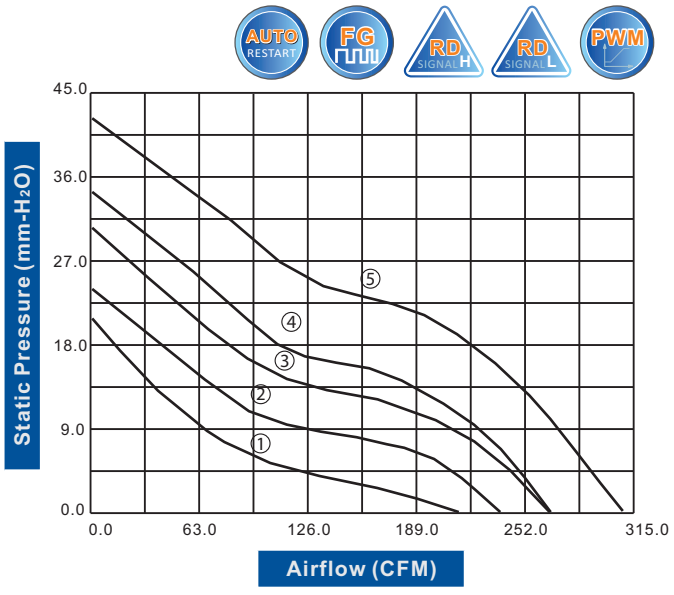
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1751B12W1-61 | ★▲ | 12 | 9.0~13.8 | 215.00 | 20.30 | 55.20 | 3,100 | 1,300 | 15.60 | B | ① |
| FD1751B12W3-61 | ★▲ | 12 | 9.0~13.8 | 235.40 | 23.60 | 58.10 | 3,400 | 1,800 | 21.60 | B | ② |
| FD1751B12W5-61 | ★▲ | 12 | 9.0~13.8 | 264.60 | 29.40 | 61.10 | 3,800 | 2,600 | 31.20 | B | ③ |
| FD1751B24W1-61 | ★▲ | 24 | 15.0~27.6 | 215.00 | 20.30 | 55.20 | 3,100 | 500 | 12.00 | B | ① |
| FD1751B24W3-61 | ★▲ | 24 | 15.0~27.6 | 235.40 | 23.60 | 58.10 | 3,400 | 700 | 16.80 | B | ② |
| FD1751B24W5-61 | ★▲ | 24 | 15.0~27.6 | 264.60 | 29.40 | 61.10 | 3,800 | 1,200 | 28.80 | B | ③ |
| FD1751B24W7-61 | ★▲ | 24 | 15.0~27.6 | 276.70 | 32.00 | 63.00 | 4,000 | 1,400 | 33.60 | B | ④ |
| FD1751B24W9-61 | ★▲ | 24 | 15.0~27.6 | 311.00 | 40.50 | 65.00 | 4,500 | 2,000 | 48.00 | B | ⑤ |
| FD1751B48W1-61 | ★▲ | 48 | 24.0~55.2 | 215.00 | 20.30 | 55.20 | 3,100 | 300 | 14.40 | B | ① |
| FD1751B48W3-61 | ★▲ | 48 | 24.0~55.2 | 235.40 | 23.60 | 58.10 | 3,400 | 380 | 18.24 | B | ② |
| FD1751B48W5-61 | ★▲ | 48 | 24.0~55.2 | 264.60 | 29.40 | 61.10 | 3,800 | 500 | 24.00 | B | ③ |
| FD1751B48W7-61 | ★▲ | 48 | 24.0~55.2 | 276.70 | 32.00 | 63.00 | 4,000 | 700 | 33.60 | B | ④ |
| FD1751B48W9-61 | ★▲ | 48 | 24.0~55.2 | 311.00 | 40.50 | 65.00 | 4,500 | 900 | 43.20 | B | ⑤ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
## ∅172x51mm
## (Metal Housing)

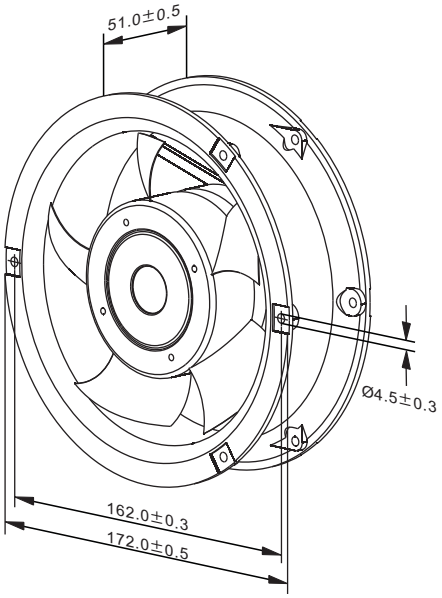
Housing: **Die-cast Aluminum**
Blade: Thermoplastic PBT, UL 94V-2
**Insulation Resistance:** 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #22 AWG
Weight: 830 g **Packing:** 20PCS/CTN

SS IP SF

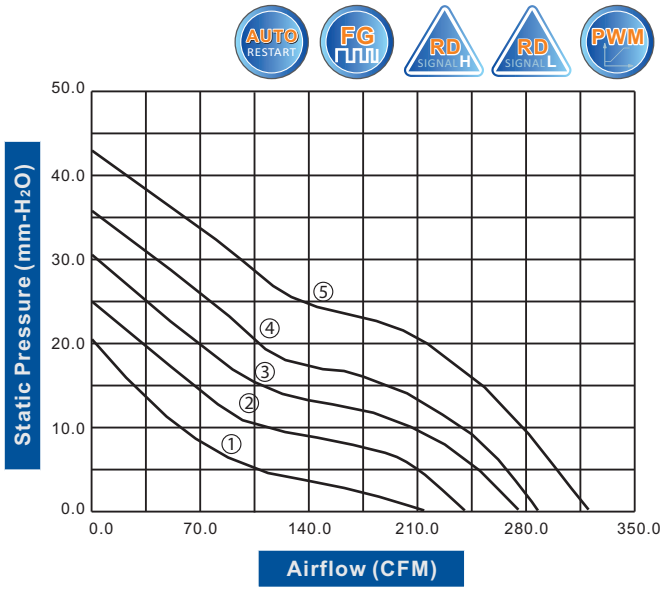
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1751B12W1-65 | ★▲ | 12 | 9.0~13.8 | 215.00 | 20.10 | 53.20 | 3,100 | 1,300 | 15.60 | B | ① |
| FD1751B12W3-65 | ★▲ | 12 | 9.0~13.8 | 238.50 | 24.80 | 55.20 | 3,400 | 1,800 | 21.60 | B | ② |
| FD1751B12W5-65 | ★▲ | 12 | 9.0~13.8 | 271.70 | 30.70 | 58.10 | 3,800 | 2,600 | 31.20 | B | ③ |
| FD1751B24W1-65 | ★▲ | 24 | 15.0~27.6 | 215.00 | 20.10 | 53.20 | 3,100 | 500 | 12.00 | B | ① |
| FD1751B24W3-65 | ★▲ | 24 | 15.0~27.6 | 238.50 | 24.80 | 55.20 | 3,400 | 700 | 16.80 | B | ② |
| FD1751B24W5-65 | ★▲ | 24 | 15.0~27.6 | 271.70 | 30.70 | 58.10 | 3,800 | 1,200 | 28.80 | B | ③ |
| FD1751B24W7-65 | ★▲ | 24 | 15.0~27.6 | 289.30 | 35.30 | 60.10 | 4,000 | 1,400 | 33.60 | B | ④ |
| FD1751B24W9-65 | ★▲ | 24 | 15.0~27.6 | 321.70 | 42.80 | 62.10 | 4,500 | 2,000 | 48.00 | B | ⑤ |
| FD1751B48W1-65 | ★▲ | 48 | 24.0~55.2 | 215.00 | 20.10 | 53.20 | 3,100 | 300 | 14.40 | B | ① |
| FD1751B48W3-65 | ★▲ | 48 | 24.0~55.2 | 238.50 | 24.80 | 55.20 | 3,400 | 380 | 18.24 | B | ② |
| FD1751B48W5-65 | ★▲ | 48 | 24.0~55.2 | 271.70 | 30.70 | 58.10 | 3,800 | 500 | 24.00 | B | ③ |
| FD1751B48W7-65 | ★▲ | 48 | 24.0~55.2 | 289.30 | 35.30 | 60.10 | 4,000 | 700 | 33.60 | B | ④ |
| FD1751B48W9-65 | ★▲ | 48 | 24.0~55.2 | 321.70 | 42.80 | 62.10 | 4,500 | 900 | 43.20 | B | ⑤ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC AXIAL FAN
# 172x151x55mm
## (Metal Housing)

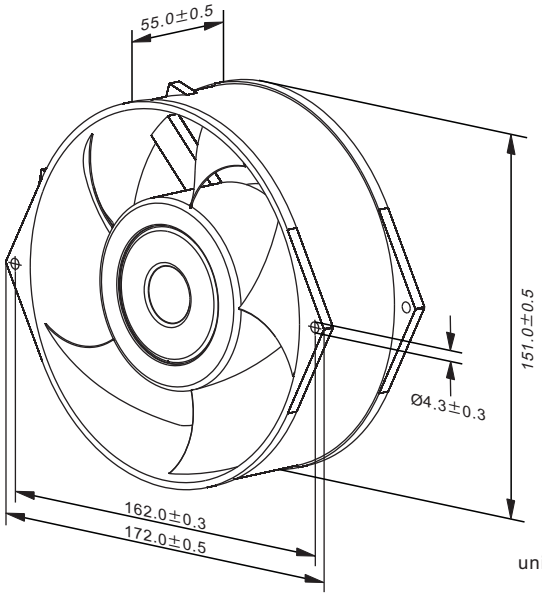
Housing: **Die-cast Aluminum**
Blade: Thermoplastic PBT, UL 94V-2
**Insulation Resistance:** 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #22 AWG
Weight: 765 g **Packing:** 15PCS/CTN

**SS** **IP** **SF**

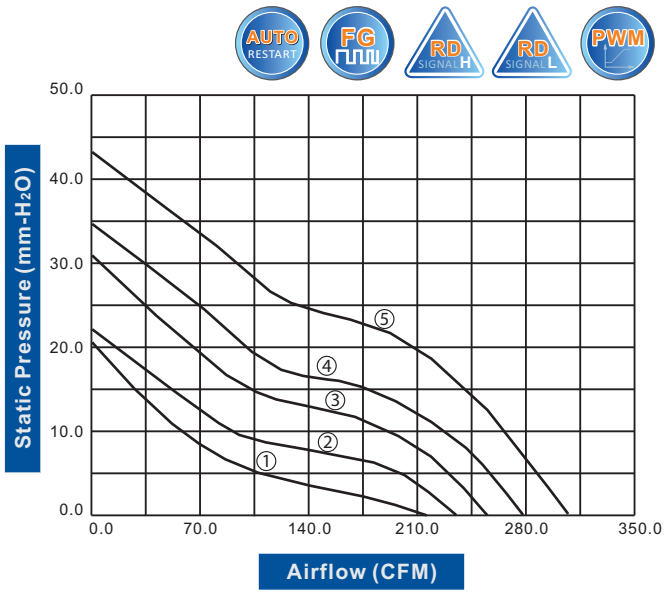
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FD1755B12W1-61 | ★▲ | 12 | 9.0~13.8 | 212.50 | 20.50 | 53.20 | 3,100 | 1,300 | 15.60 | B | ① |
| FD1755B12W3-61 | ★▲ | 12 | 9.0~13.8 | 229.20 | 21.40 | 57.10 | 3,400 | 1,800 | 21.60 | B | ② |
| FD1755B12W5-61 | ★▲ | 12 | 9.0~13.8 | 259.60 | 31.20 | 59.10 | 3,800 | 2,600 | 31.20 | B | ③ |
| FD1755B24W1-61 | ★▲ | 24 | 15.0~27.6 | 212.50 | 20.50 | 53.20 | 3,100 | 500 | 12.00 | B | ① |
| FD1755B24W3-61 | ★▲ | 24 | 15.0~27.6 | 229.20 | 21.40 | 57.10 | 3,400 | 700 | 16.80 | B | ② |
| FD1755B24W5-61 | ★▲ | 24 | 15.0~27.6 | 259.60 | 31.20 | 59.10 | 3,800 | 1,200 | 28.80 | B | ③ |
| FD1755B24W7-61 | ★▲ | 24 | 15.0~27.6 | 274.10 | 34.70 | 61.10 | 4,000 | 1,400 | 33.60 | B | ④ |
| FD1755B24W9-61 | ★▲ | 24 | 15.0~27.6 | 306.10 | 43.20 | 64.00 | 4,500 | 2,000 | 48.00 | B | ⑤ |
| FD1755B48W1-61 | ★▲ | 48 | 24.0~55.2 | 212.50 | 20.50 | 53.20 | 3,100 | 300 | 14.40 | B | ① |
| FD1755B48W3-61 | ★▲ | 48 | 24.0~55.2 | 229.20 | 21.40 | 57.10 | 3,400 | 380 | 18.24 | B | ② |
| FD1755B48W5-61 | ★▲ | 48 | 24.0~55.2 | 259.60 | 31.20 | 59.10 | 3,800 | 500 | 24.00 | B | ③ |
| FD1755B48W7-61 | ★▲ | 48 | 24.0~55.2 | 274.10 | 34.70 | 61.10 | 4,000 | 700 | 33.60 | B | ④ |
| FD1755B48W9-61 | ★▲ | 48 | 24.0~55.2 | 306.10 | 43.20 | 64.00 | 4,500 | 900 | 43.20 | B | ⑤ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #30 AWG
Weight: 21 g **Packing:** 300PCS/CTN

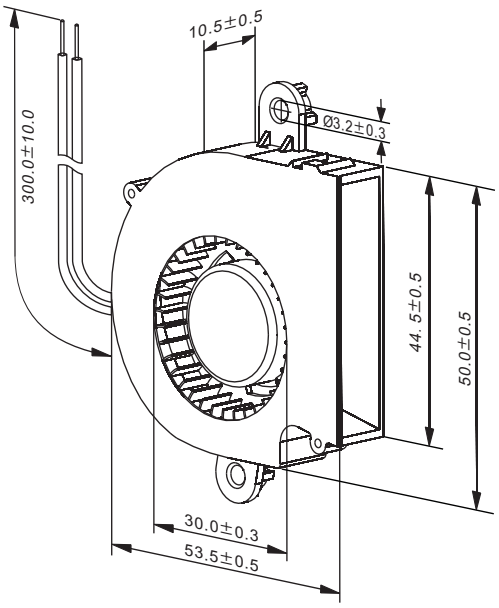
SS IP SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD5010B12W3-61 | ▲ | 12 | 8.00~13.80 | 2.80 | 8.00 | 25.60 | 4,000 | 100 | 1.20 | B | ① |
| FBD5010B12W5-61 | ▲ | 12 | 6.00~13.80 | 3.70 | 14.10 | 31.50 | 5,000 | 170 | 2.04 | B | ② |
| FBD5010B12W7-61 | ▲ | 12 | 6.00~13.80 | 4.50 | 22.60 | 37.40 | 6,000 | 250 | 3.00 | B | ③ |

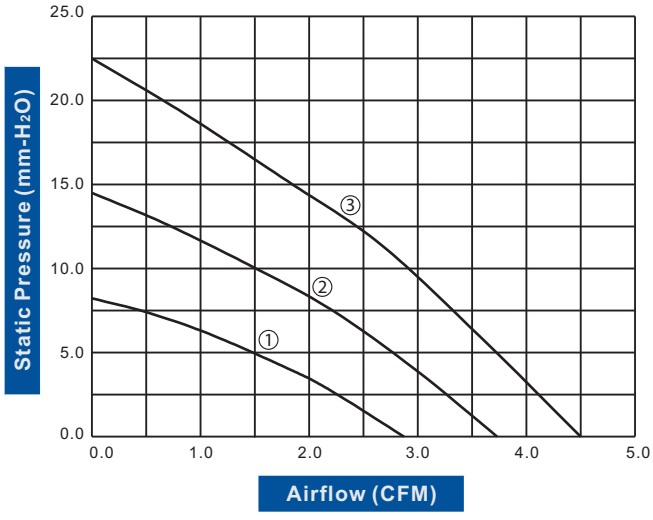
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H RD SIGNAL L PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #28 AWG
Weight: 26 g **Packing:** 200PCS/CTN

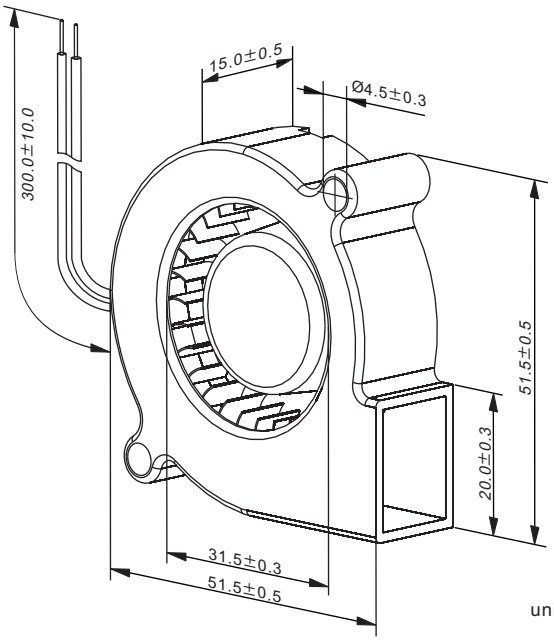
SS IP SF



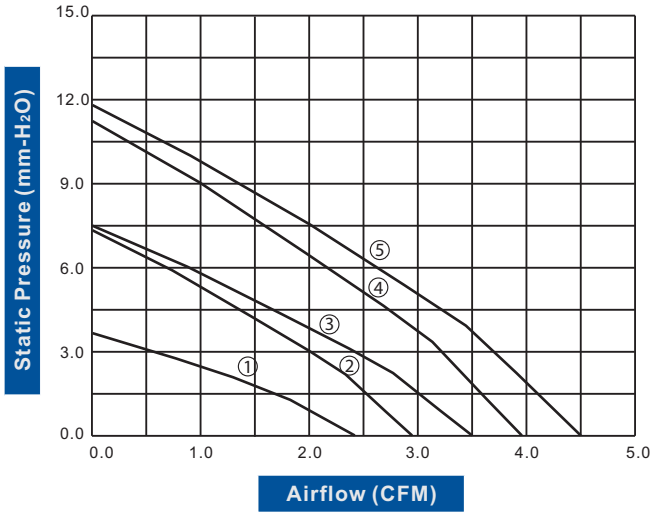
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD5015B05W3-61 | ▲ | 5 | 3.5~5.75 | 2.40 | 3.60 | 25.60 | 3,000 | 120 | 0.60 | B,S | ① |
| FBD5015B05W5-61 | ▲ | 5 | 3.5~5.75 | 3.50 | 7.50 | 34.50 | 4,000 | 200 | 1.00 | B,S | ③ |
| FBD5015B05W7-61 | ★▲ | 5 | 3.5~5.75 | 3.90 | 11.50 | 36.40 | 4,500 | 310 | 1.55 | B,S | ④ |
| FBD5015B12W3-61 | ▲ | 12 | 8.0~13.8 | 2.40 | 3.60 | 25.60 | 3,000 | 50 | 0.60 | B,S | ① |
| FBD5015B12W5-61 | ▲ | 12 | 6.0~13.8 | 3.50 | 7.50 | 34.50 | 4,000 | 80 | 0.96 | B,S | ③ |
| FBD5015B12W7-61 | ★▲ | 12 | 6.0~13.8 | 4.50 | 11.70 | 40.40 | 5,000 | 130 | 1.56 | B,S | ⑤ |
| FBD5015B24W3-61 | ▲ | 24 | 12.0~27.6 | 2.90 | 7.40 | 29.60 | 3,500 | 40 | 0.96 | B,S | ② |
| FBD5015B24W5-61 | ▲ | 24 | 12.0~27.6 | 3.50 | 7.50 | 34.50 | 4,000 | 50 | 1.20 | B,S | ③ |
| FBD5015B24W7-61 | ★▲ | 24 | 12.0~27.6 | 4.50 | 11.70 | 40.40 | 5,000 | 100 | 2.40 | B,S | ⑤ |

- For "Sleeve" bearing version, change the "B" in the model number to , "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 24 g Packing: 200PCS/CTN

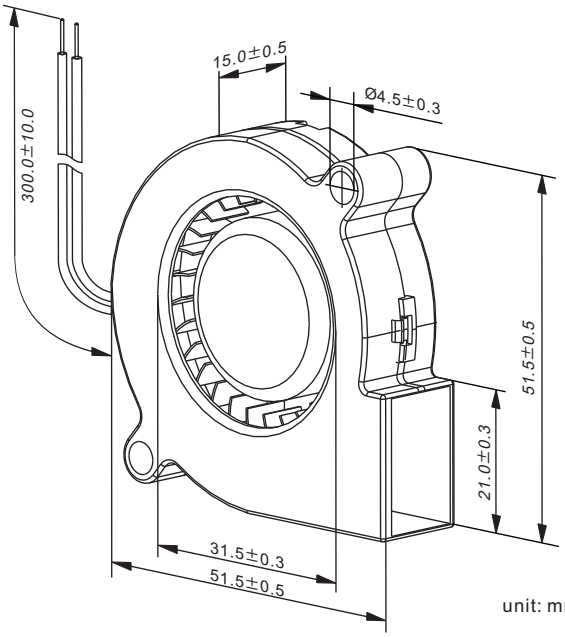
ES IP SF



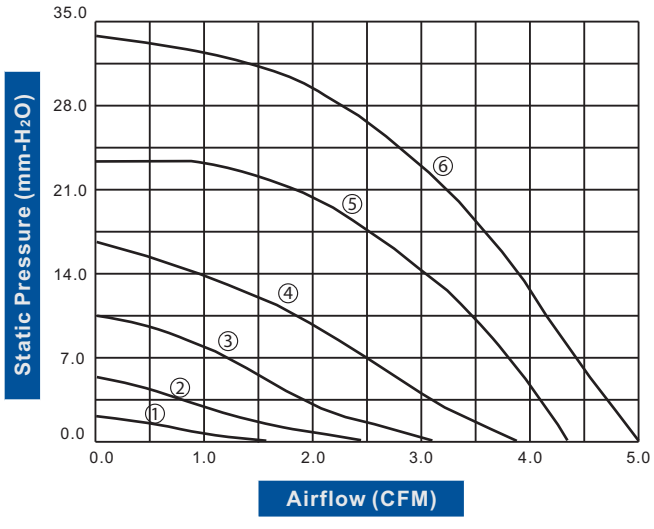
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD5015B05W1-81 | 5 | 4.0~5.5 | 1.60 | 2.20 | 17.20 | 2,500 | 40 | 0.20 | B | ① |
| FBD5015B05W3-81 | 5 | 4.0~5.5 | 2.40 | 5.10 | 26.60 | 3,500 | 70 | 0.35 | B | ② |
| FBD5015B05W5-81 | 5 | 4.0~5.5 | 3.10 | 10.40 | 34.50 | 4,500 | 140 | 0.70 | B | ③ |
| FBD5015B05W7-81 | 5 | 4.0~5.5 | 3.80 | 16.80 | 38.90 | 5,500 | 190 | 0.95 | B | ④ |
| FBD5015B05W9-81 | 5 | 4.0~5.5 | 4.30 | 23.60 | 43.30 | 6,500 | 300 | 1.50 | B | ⑤ |
| FBD5015B12W1-81 | 12 | 9.0~13.8 | 1.60 | 2.20 | 17.20 | 2,500 | 30 | 0.36 | B | ① |
| FBD5015B12W3-81 | 12 | 9.0~13.8 | 2.40 | 5.10 | 26.20 | 3,500 | 40 | 0.48 | B | ② |
| FBD5015B12W5-81 | 12 | 9.0~13.8 | 3.10 | 10.40 | 34.50 | 4,500 | 60 | 0.72 | B | ③ |
| FBD5015B12W7-81 | 12 | 6.0~13.8 | 3.80 | 16.80 | 38.90 | 5,500 | 110 | 1.32 | B | ④ |
| FBD5015B12W9-81 | 12 | 6.0~13.8 | 4.30 | 23.60 | 43.30 | 6,500 | 210 | 2.52 | B | ⑤ |
| FBD5015B12W10-81 | 12 | 6.0~13.2 | 5.00 | 33.60 | 46.80 | 7,500 | 250 | 3.00 | B | ⑥ |

Specifications are subject to change without notice

AUTO RESTART FG PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20°C~70°C(Humidity 15%-90%RH)
Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 38 g Packing: 200PCS/CTN

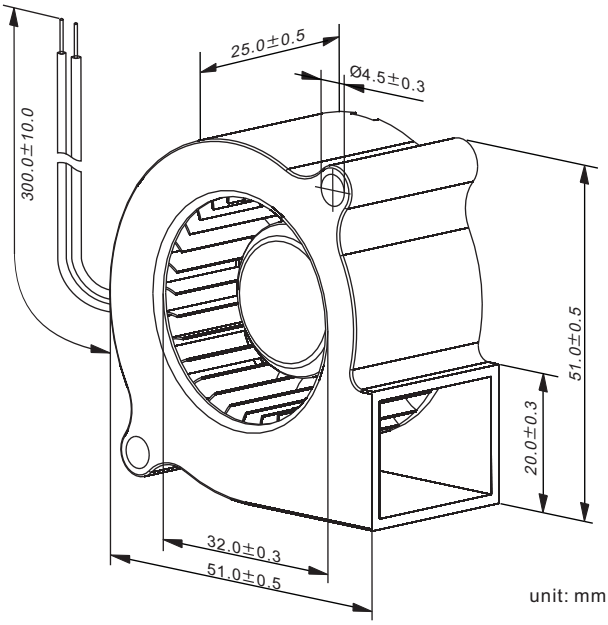
ES IP SF



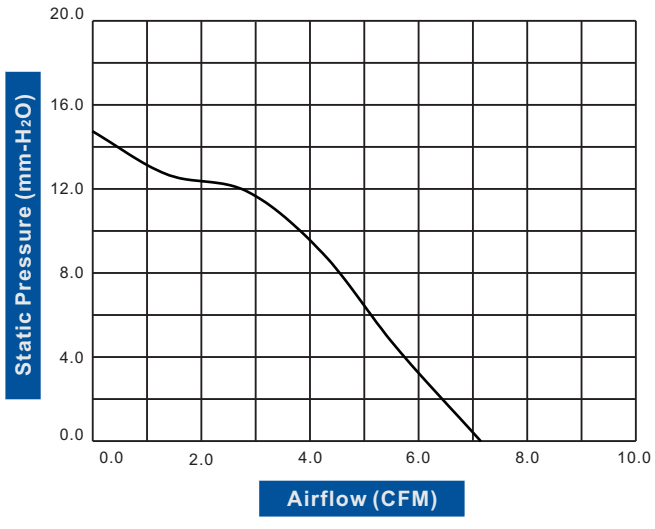
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD5025S12W5-61 | ★▲ 12 | 6.0~13.8 | 7.10 | 14.70 | 36.90 | 4,800 | 260 | 3.12 | S | ① |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



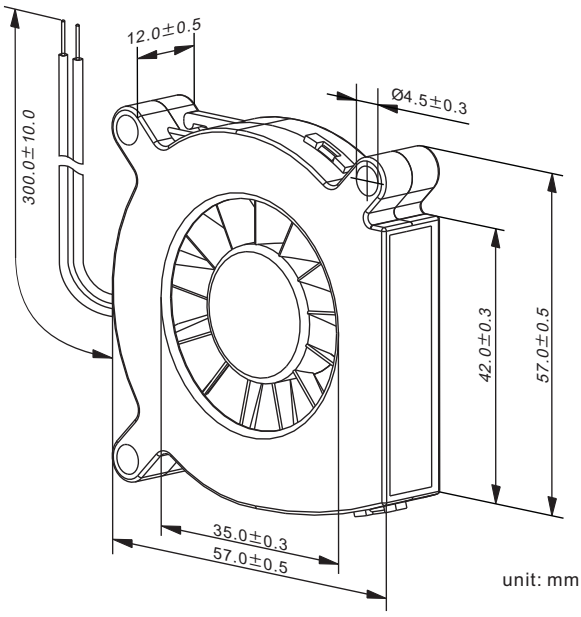
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 20 g Packing: 300PCS/CTN

ES IP SF

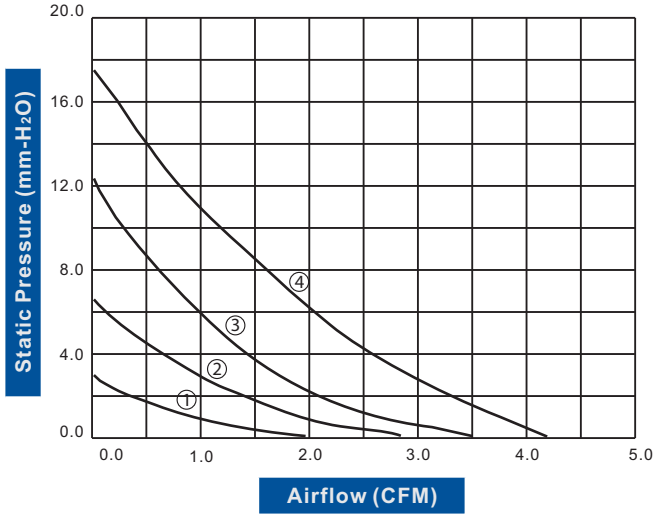


| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD5712B05W3-81 | 5 | 4.5~5.5 | 1.90 | 3.20 | 10.80 | 2,500 | 60 | 0.30 | B | ① |
| FBD5712B05W5-81 | 5 | 4.0~5.5 | 2.70 | 6.50 | 20.70 | 3,500 | 100 | 0.50 | B | ② |
| FBD5712B05W7-81 | 5 | 4.0~5.5 | 3.50 | 12.20 | 28.60 | 4,500 | 240 | 1.20 | B | ③ |
| FBD5712B12W3-81 | 12 | 10.8~13.8 | 1.90 | 3.20 | 10.80 | 2,500 | 40 | 0.48 | B | ① |
| FBD5712B12W5-81 | 12 | 9.0~13.8 | 2.70 | 6.50 | 20.70 | 3,500 | 70 | 0.84 | B | ② |
| FBD5712B12W7-81 | 12 | 6.0~13.8 | 3.50 | 12.20 | 28.60 | 4,500 | 110 | 1.32 | B | ③ |
| FBD5712B12W9-81 | 12 | 6.0~13.8 | 4.20 | 17.80 | 36.40 | 5,500 | 170 | 2.04 | B | ④ |

Specifications are subject to change without notice




unit: mm



# DC BLOWER 60x60x15mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #28 AWG
Weight: 28 g **Packing:** 300PCS/CTN

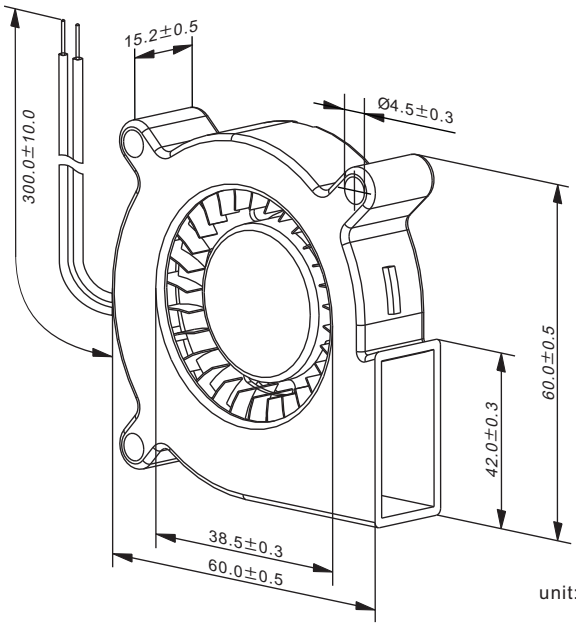
ES IP SF



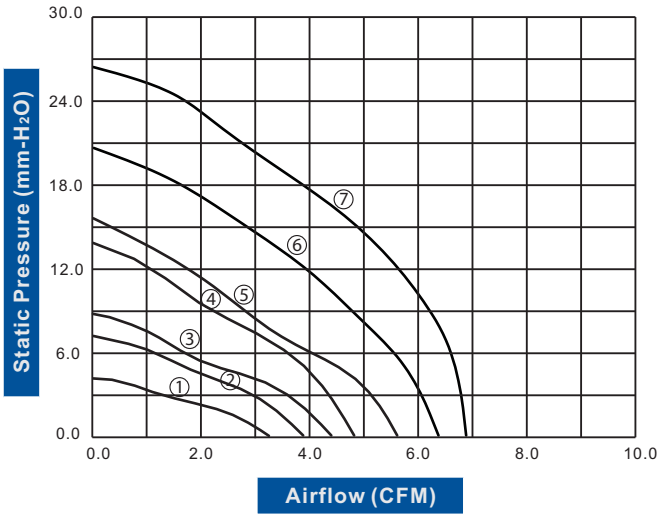
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD6015B12W1-81 | 12 | 9.0~13.8 | 3.20 | 4.50 | 18.70 | 2,500 | 50 | 0.60 | B | ① |
| FBD6015B12W3-81 | 12 | 6.0~13.8 | 3.90 | 7.10 | 23.60 | 3,000 | 80 | 0.96 | B | ② |
| FBD6015B12W5-81 | 12 | 6.0~13.8 | 4.30 | 8.80 | 28.60 | 3,500 | 100 | 1.20 | B | ③ |
| FBD6015B12W7-81 | 12 | 6.0~13.8 | 4.80 | 13.80 | 32.80 | 4,000 | 120 | 1.44 | B | ④ |
| FBD6015B12W9-81 | 12 | 6.0~13.8 | 5.60 | 15.70 | 35.50 | 4,500 | 180 | 2.16 | B | ⑤ |
| FBD6015B12W11-81 | 12 | 6.0~13.8 | 6.30 | 20.30 | 38.40 | 5,000 | 270 | 3.24 | B | ⑥ |
| FBD6015B12W13-81 | 12 | 6.0~13.0 | 6.90 | 26.10 | 40.90 | 5,500 | 390 | 4.68 | B | ⑦ |

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



# DC BLOWER 60x60x25mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 52 g **Packing:** 200PCS/CTN

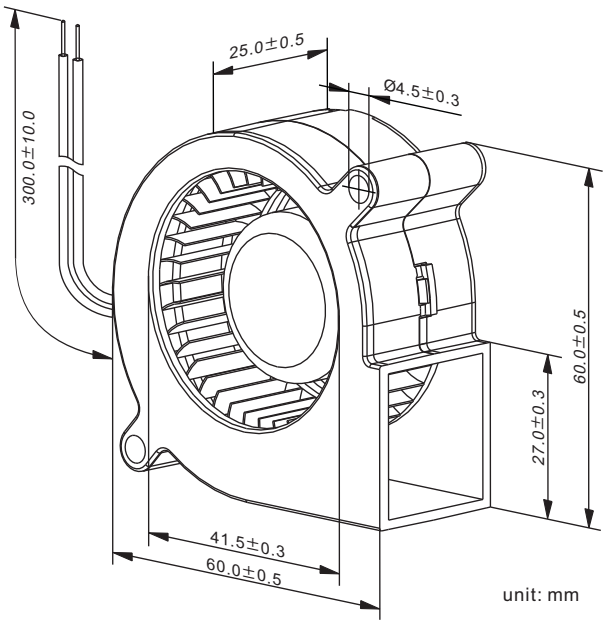
ES IP SF

| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD6025B12W3-81 ★ | 12 | 6.0~13.8 | 5.20 | 5.50 | 23.10 | 2,500 | 100 | 1.20 | B | ① |
| FBD6025B12W5-81 ★ | 12 | 6.0~13.8 | 7.40 | 11.60 | 34.00 | 3,500 | 220 | 2.64 | B | ② |
| FBD6025B12W7-81 ★ | 12 | 6.0~13.8 | 9.60 | 22.70 | 40.40 | 4,500 | 400 | 4.80 | B | ③ |
| FBD6025B12W9-81 ★ | 12 | 6.0~13.8 | 11.80 | 34.20 | 46.30 | 5,500 | 450 | 5.40 | B | ④ |
| FBD6025B24W3-81 ★ | 24 | 16.0~27.6 | 5.20 | 5.50 | 23.10 | 2,500 | 60 | 1.44 | B | ① |
| FBD6025B24W5-81 ★ | 24 | 16.0~27.6 | 7.40 | 11.60 | 34.00 | 3,500 | 120 | 2.88 | B | ② |

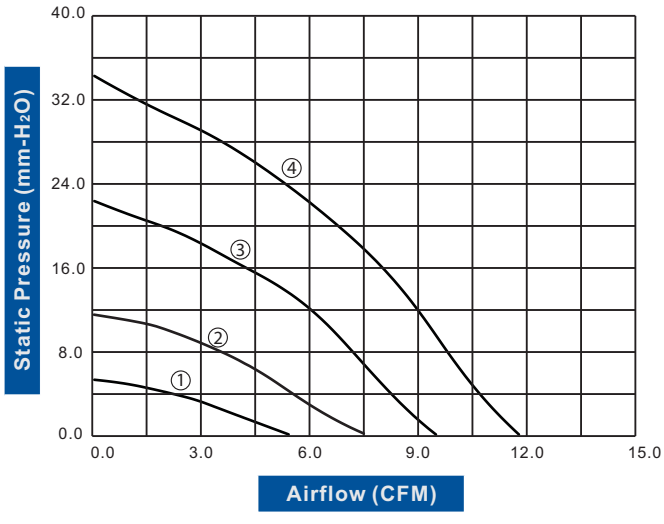
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 87 g Packing: 100PCS/CTN

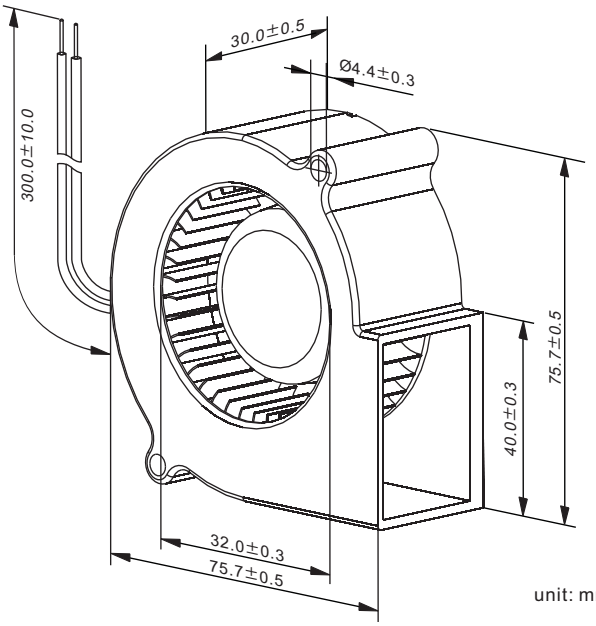
SS IP SF



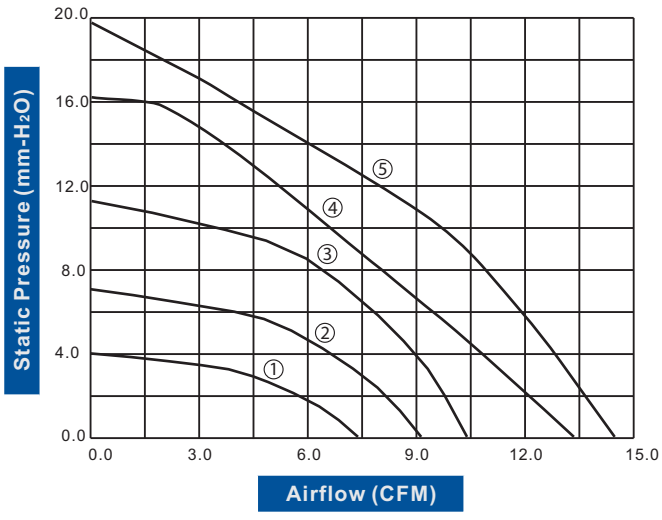
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD7530B12W3-61 | ▲ | 12 | 6.0~13.8 | 7.30 | 4.00 | 25.60 | 2,000 | 90 | 1.08 | B,S | ① |
| FBD7530B12W5-61 | ▲ | 12 | 6.0~13.8 | 9.40 | 7.10 | 32.50 | 2,500 | 170 | 2.04 | B,S | ② |
| FBD7530B12W7-61 | ★▲ | 12 | 6.0~13.8 | 11.30 | 11.20 | 37.40 | 3,000 | 250 | 3.00 | B,S | ③ |
| FBD7530B12W9-61 | ★▲ | 12 | 6.0~13.8 | 13.30 | 16.10 | 42.40 | 3,500 | 320 | 3.84 | B,S | ④ |
| FBD7530B12W11-61 | ★▲ | 12 | 6.0~13.8 | 14.30 | 19.70 | 44.30 | 3,800 | 460 | 5.52 | B,S | ⑤ |
| FBD7530B24W3-61 | ▲ | 24 | 12.0~27.6 | 7.30 | 4.00 | 25.60 | 2,000 | 80 | 1.92 | B,S | ① |
| FBD7530B24W5-61 | ▲ | 24 | 12.0~27.6 | 9.40 | 7.10 | 32.50 | 2,500 | 100 | 2.40 | B,S | ② |
| FBD7530B24W7-61 | ★▲ | 24 | 12.0~27.6 | 11.30 | 11.20 | 37.40 | 3,000 | 130 | 3.12 | B,S | ③ |
| FBD7530B24W9-61 | ★▲ | 24 | 12.0~27.6 | 13.30 | 16.10 | 42.40 | 3,500 | 150 | 3.60 | B,S | ④ |
| FBD7530B24W11-61 | ★▲ | 24 | 12.0~27.6 | 14.30 | 19.70 | 44.30 | 3,800 | 230 | 5.52 | B,S | ⑤ |

- For "Sleeve" bearing version, change the "B" in the model number to , "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC BLOWER 75x75x30mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 61 g **Packing:** 100PCS/CTN

ES IP SF

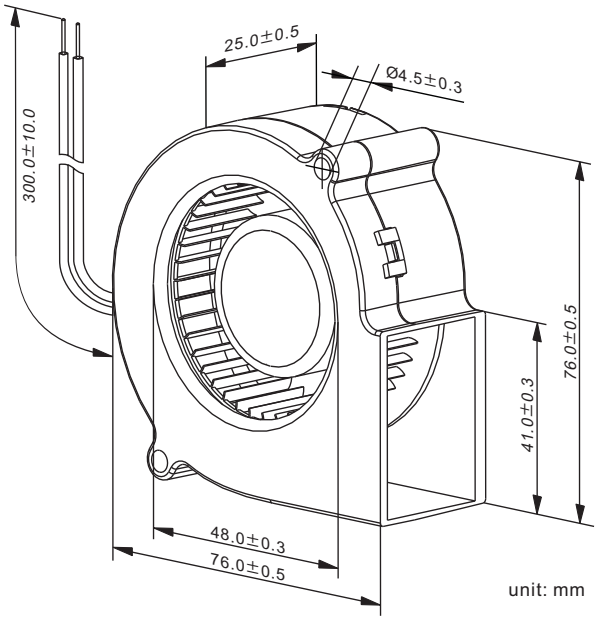


| Model Number | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD7530B12W2-81 ★ | 12 | 6.0~13.8 | 5.30 | 1.60 | 18.70 | 1,500 | 90 | 1.08 | B | ① |
| FBD7530B12W3-81 ★ | 12 | 6.0~13.8 | 7.00 | 3.60 | 27.10 | 2,000 | 110 | 1.32 | B | ② |
| FBD7530B12W5-81 ★ | 12 | 6.0~13.8 | 8.70 | 5.60 | 23.60 | 2,500 | 150 | 1.80 | B | ③ |
| FBD7530B12W7-81 ★ | 12 | 6.0~13.8 | 10.00 | 10.30 | 38.90 | 3,000 | 230 | 2.76 | B | ④ |
| FBD7530B12W9-81 ★ | 12 | 6.0~13.8 | 12.40 | 12.50 | 43.30 | 3,500 | 280 | 3.36 | B | ⑤ |
| FBD7530B12W11-81 ★ | 12 | 6.0~13.8 | 14.40 | 18.10 | 45.80 | 4,000 | 510 | 6.12 | B | ⑥ |
| FBD7530B24W9-81 ★ | 24 | 12.0~27.6 | 12.40 | 12.50 | 43.30 | 3,500 | 230 | 5.52 | B | ⑤ |

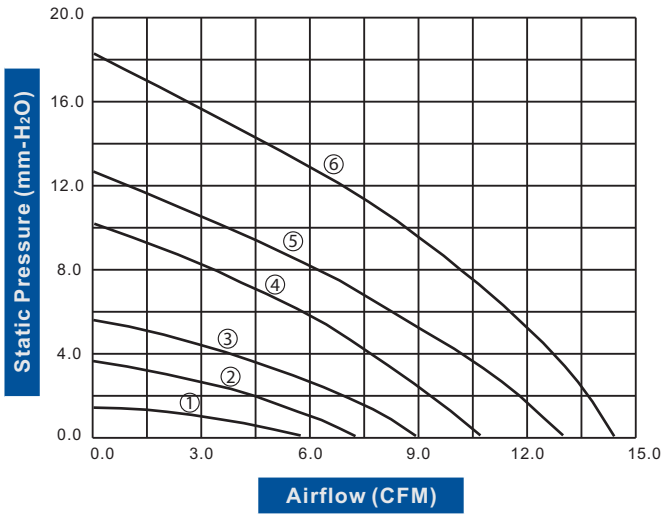
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG PWM




unit: mm



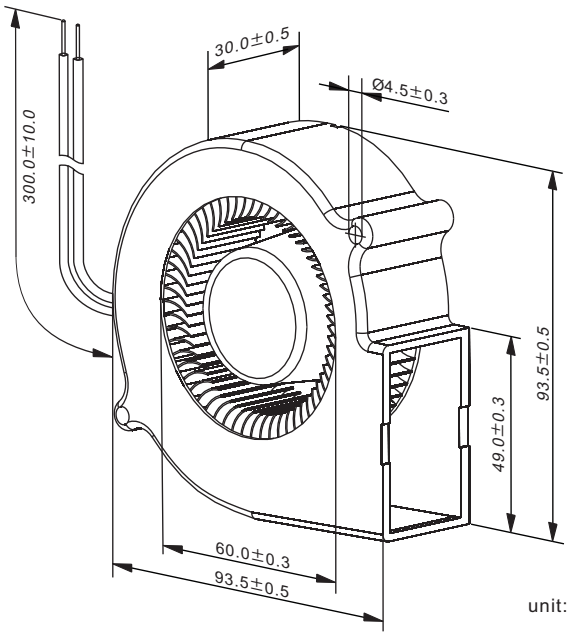
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 155 g **Packing:** 60PCS/CTN

SS IP SF

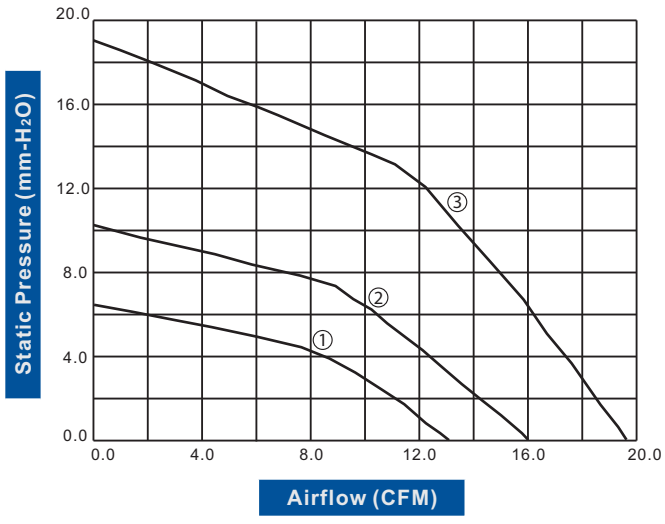
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD9330B12W1-61 | ▲ | 12 | 6.0~13.8 | 13.20 | 6.40 | 37.40 | 2,100 | 180 | 2.16 | B,S | ① |
| FBD9330B12W3-61 | ★▲ | 12 | 6.0~13.8 | 16.00 | 10.20 | 41.40 | 2,500 | 290 | 3.48 | B,S | ② |
| FBD9330B12W5-61 | ★▲ | 12 | 6.0~13.8 | 19.50 | 19.10 | 44.30 | 3,000 | 490 | 5.88 | B,S | ③ |
| FBD9330B24W1-61 | ▲ | 24 | 12.0~27.6 | 13.20 | 6.40 | 37.40 | 2,100 | 80 | 1.92 | B,S | ① |
| FBD9330B24W3-61 | ★▲ | 24 | 12.0~27.6 | 16.00 | 10.20 | 41.40 | 2,500 | 140 | 3.36 | B,S | ② |
| FBD9330B24W5-61 | ★▲ | 24 | 12.0~27.6 | 19.50 | 19.10 | 44.30 | 3,000 | 230 | 5.52 | B,S | ③ |

- For "Sleeve" bearing version, change the "B" in the model number to , "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC BLOWER 97x94x33mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 165 g **Packing:** 60PCS/CTN

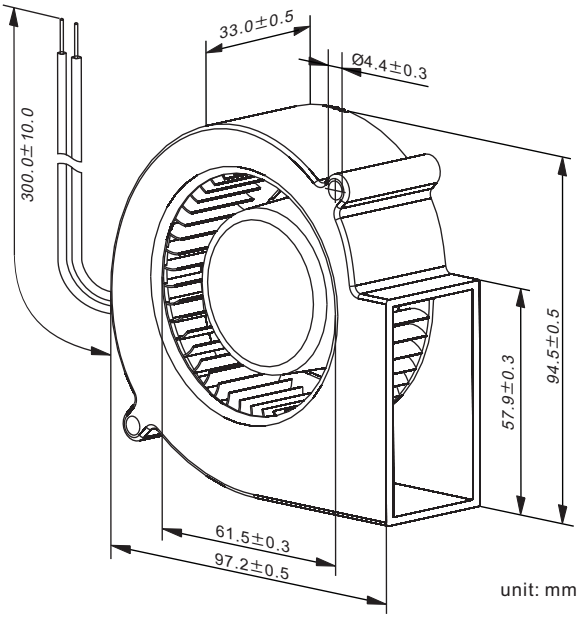
SS IP SF

| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD9733B12W3-61 | ★▲ | 12 | 6.0~13.8 | 14.20 | 7.70 | 39.40 | 2,200 | 210 | 2.52 | B,S | ① |
| FBD9733B12W5-61 | ★▲ | 12 | 6.0~13.8 | 18.70 | 13.70 | 44.30 | 2,800 | 420 | 5.04 | B,S | ② |
| FBD9733B12W7-61 | ★▲ | 12 | 6.0~13.8 | 22.20 | 21.10 | 49.30 | 3,300 | 750 | 9.00 | B,S | ③ |
| FBD9733B24W3-61 | ★▲ | 24 | 12.0~27.6 | 14.20 | 7.70 | 39.40 | 2,200 | 120 | 2.88 | B,S | ① |
| FBD9733B24W5-61 | ★▲ | 24 | 12.0~27.6 | 18.70 | 13.70 | 44.30 | 2,800 | 200 | 4.80 | B,S | ② |
| FBD9733B24W7-61 | ★▲ | 24 | 12.0~27.6 | 22.20 | 21.10 | 49.30 | 3,300 | 380 | 9.12 | B,S | ③ |
| FBD9733B48W3-61 | ★▲ | 48 | 24.0~55.2 | 14.20 | 7.70 | 39.40 | 2,200 | 140 | 6.72 | B,S | ① |
| FBD9733B48W5-61 | ★▲ | 48 | 24.0~55.2 | 18.70 | 13.70 | 44.30 | 2,800 | 180 | 8.64 | B,S | ② |
| FBD9733B48W7-61 | ★▲ | 48 | 24.0~55.2 | 22.20 | 21.10 | 49.30 | 3,300 | 270 | 12.96 | B,S | ③ |

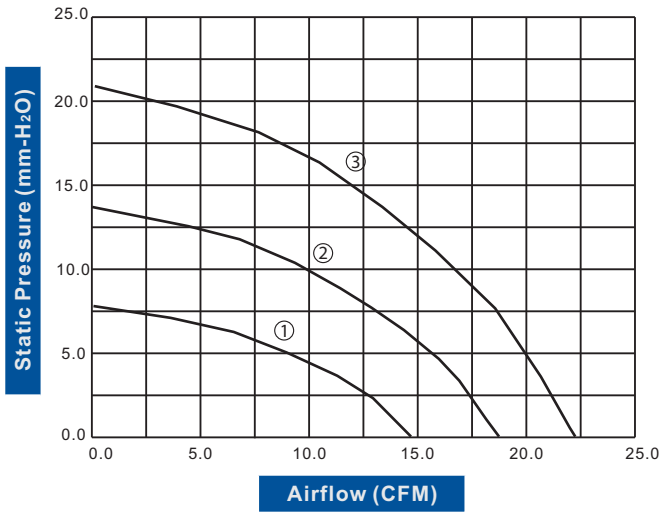
- For "Sleeve" bearing version, change the "B" in the model number to , "S".
- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice

AUTO RESTART | FG | RD SIGNAL H | RD SIGNAL L | PWM




unit: mm



Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #26 AWG
Weight: 142 g **Packing:** 60PCS/CTN

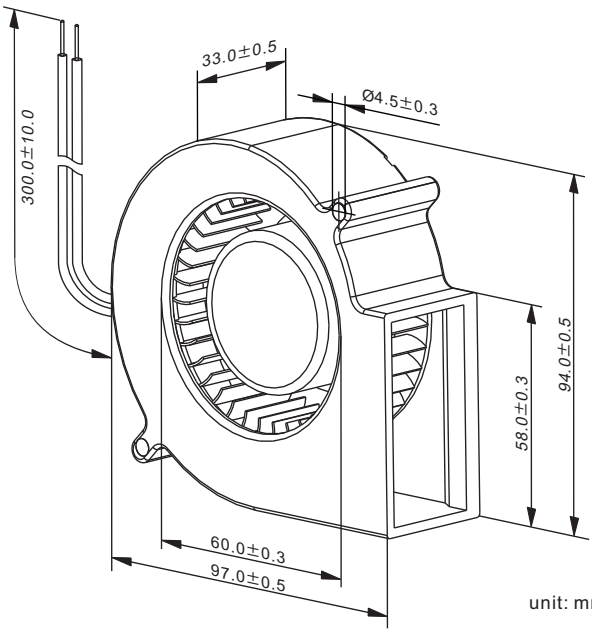
ES IP SF



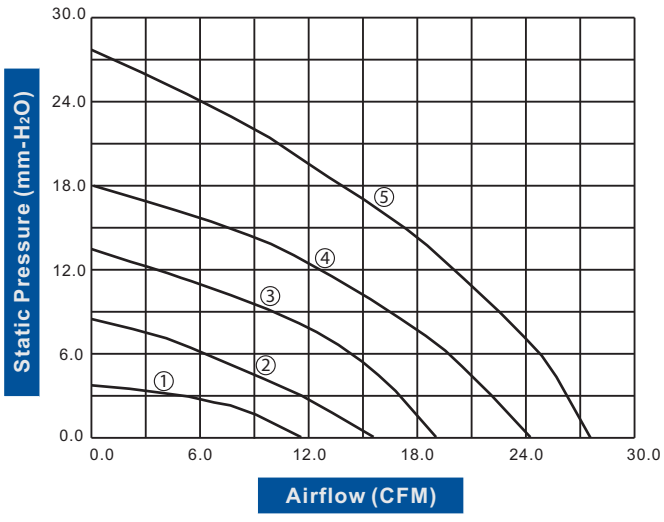
| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD9733B12W1-81 ★ | 12 | 8.0~13.8 | 11.50 | 4.00 | 30.00 | 1,500 | 80 | 0.96 | B | ① |
| FBD9733B12W2-81 ★ | 12 | 8.0~13.8 | 15.60 | 8.20 | 39.90 | 2,000 | 140 | 1.68 | B | ② |
| FBD9733B12W3-81 ★ | 12 | 8.0~13.8 | 19.20 | 13.50 | 46.30 | 2,500 | 310 | 3.72 | B | ③ |
| FBD9733B12W5-81 ★ | 12 | 8.0~13.8 | 24.10 | 18.00 | 50.70 | 3,000 | 530 | 6.36 | B | ④ |
| FBD9733B12W7-81 ★ | 12 | 8.0~13.8 | 27.50 | 27.60 | 54.20 | 3,500 | 900 | 10.80 | B | ⑤ |
| FBD9733B24W7-81 ★ | 24 | 12.0~27.6 | 27.50 | 27.60 | 54.20 | 3,500 | 510 | 12.24 | B | ⑤ |
| FBD9733B48W7-81 ★ | 48 | 38.0~52.8 | 27.50 | 27.60 | 54.20 | 3,500 | 300 | 14.40 | B | ⑤ |

- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice




unit: mm



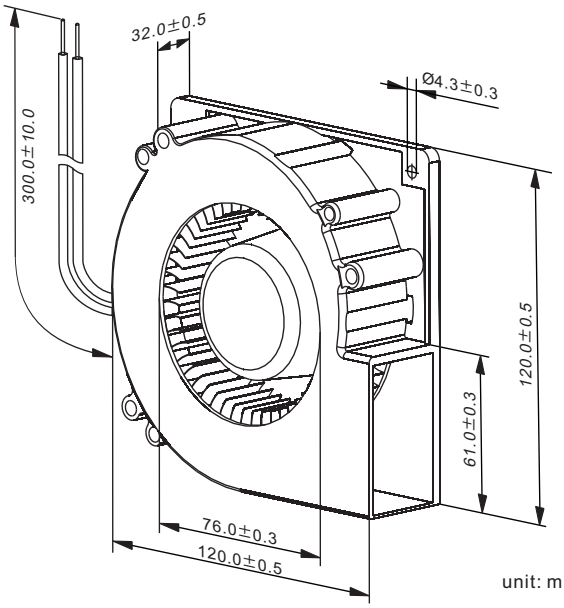
Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #24 AWG
Weight: 240 g **Packing:** 40PCS/CTN

SS IP SF

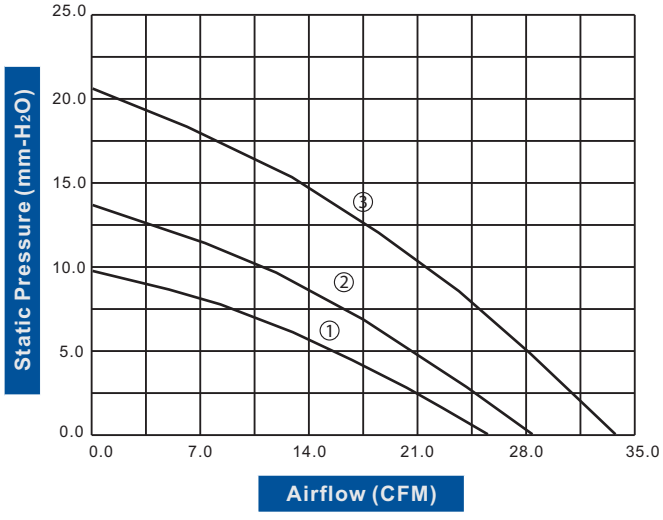
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD1232B12W1-61 | ★▲ | 12 | 6.0~13.8 | 25.40 | 9.70 | 44.30 | 1,600 | 330 | 3.96 | B | ① |
| FBD1232B12W3-61 | ★▲ | 12 | 6.0~13.8 | 28.60 | 13.50 | 46.30 | 1,800 | 460 | 5.52 | B | ② |
| FBD1232B12W5-61 | ★▲ | 12 | 6.0~13.8 | 33.60 | 20.40 | 50.20 | 2,100 | 540 | 6.48 | B | ③ |
| FBD1232B24W1-61 | ★▲ | 24 | 12.0~27.6 | 25.40 | 9.70 | 44.30 | 1,600 | 160 | 3.84 | B | ① |
| FBD1232B24W3-61 | ★▲ | 24 | 12.0~27.6 | 28.60 | 13.50 | 46.30 | 1,800 | 230 | 5.52 | B | ② |
| FBD1232B24W5-61 | ★▲ | 24 | 12.0~27.6 | 33.60 | 20.40 | 50.20 | 2,100 | 310 | 7.44 | B | ③ |
| FBD1232B48W1-61 | ★▲ | 48 | 24.0~55.2 | 25.40 | 9.70 | 44.30 | 1,600 | 110 | 5.28 | B | ① |
| FBD1232B48W3-61 | ★▲ | 48 | 24.0~55.2 | 28.60 | 13.50 | 46.30 | 1,800 | 150 | 7.20 | B | ② |
| FBD1232B48W5-61 | ★▲ | 48 | 24.0~55.2 | 33.60 | 20.40 | 50.20 | 2,100 | 190 | 9.12 | B | ③ |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# DC BLOWER
# 120x120x32mm

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 307 g **Packing:** 40PCS/CTN

ES IP SF

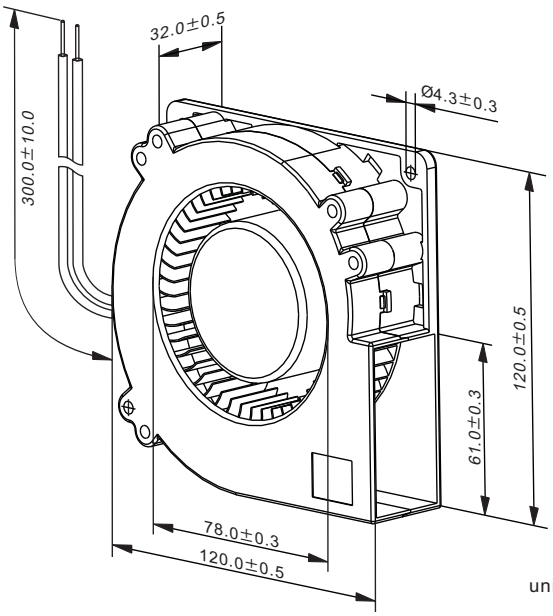


| Model Number | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBD1232B12W3-81 ★ | 12 | 8.0~13.8 | 25.70 | 12.00 | 42.80 | 2,000 | 340 | 4.08 | B | ① |
| FBD1232B12W5-81 ★ | 12 | 8.0~13.8 | 31.90 | 19.50 | 47.30 | 2,500 | 630 | 7.56 | B | ② |
| FBD1232B12W7-81 ★ | 12 | 8.0~13.8 | 38.20 | 32.70 | 52.70 | 3,000 | 1,010 | 12.12 | B | ③ |
| FBD1232B12W9-81 ★ | 12 | 8.0~13.8 | 44.40 | 48.20 | 56.10 | 3,500 | 1,600 | 19.20 | B | ④ |
| FBD1232B24W5-81 ★ | 24 | 12.0~27.6 | 31.90 | 19.50 | 47.30 | 2,500 | 300 | 7.20 | B | ② |
| FBD1232B24W7-81 ★ | 24 | 12.0~27.6 | 38.20 | 32.70 | 52.70 | 3,000 | 810 | 19.44 | B | ③ |
| FBD1232B24W9-81 ★ | 24 | 12.0~27.6 | 44.40 | 48.20 | 56.10 | 3,500 | 1,020 | 24.48 | B | ④ |
| FBD1232B48W7-81 ★ | 48 | 24.0~52.8 | 38.20 | 32.70 | 52.70 | 3,000 | 690 | 33.12 | B | ③ |

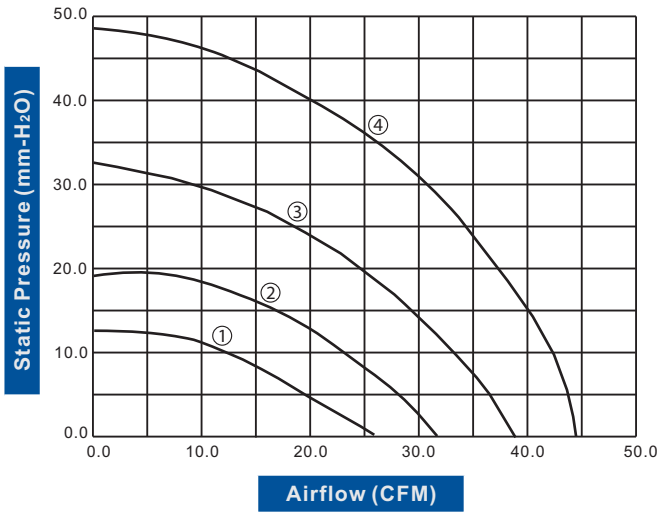
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG RD SIGNAL H PWM




unit: mm



# DC BLOWER
# 121x121x37mm

Spiral Housing: Fiberglass-Reinforced Polycarbonate
Housing Base: Galvanized Steel Plate
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -20℃~70℃(Humidity 15%-90%RH)
Storage Temperature: -40℃~85℃(Humidity 15%-90%RH)
Lead Wire: UL Type #24 AWG
Weight: 500 g Packing: 20PCS/CTN

ES IP SF

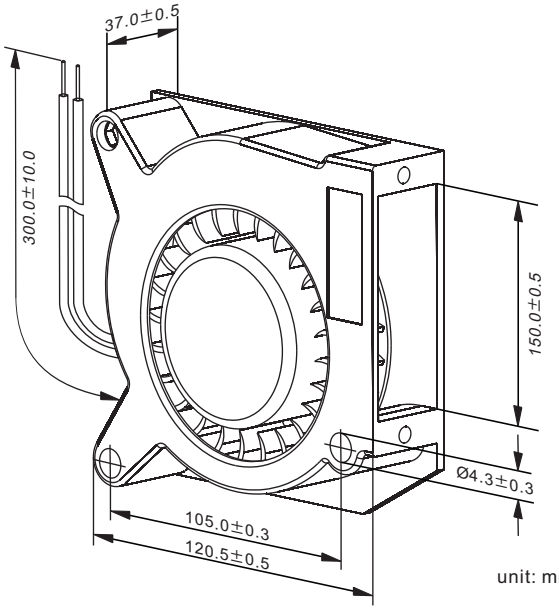


| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | AirFlow (CFM) | StaticPres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD1237B12W5-51 | ★ | 12 | 10.0~13.8 | 22.00 | 13.20 | 52.00 | 2,500 | 630 | 7.56 | B,S | ① |
| FBD1237B12W7-51 | ★ | 12 | 10.0~13.8 | 26.00 | 19.30 | 55.00 | 2,800 | 950 | 11.40 | B,S | ② |
| FBD1237B24W5-51 | ★ | 24 | 20.0~28.0 | 22.00 | 13.20 | 52.00 | 2,500 | 310 | 7.44 | B,S | ① |
| FBD1237B24W7-51 | ★ | 24 | 20.0~28.0 | 26.00 | 19.30 | 55.00 | 2,800 | 420 | 10.08 | B,S | ② |
| FBD1237B48W5-51 | ★ | 48 | 25.0~52.0 | 22.00 | 13.20 | 52.00 | 2,500 | 160 | 7.68 | B,S | ① |
| FBD1237B48W7-51 | ★ | 48 | 25.0~52.0 | 26.00 | 19.30 | 55.00 | 2,800 | 230 | 11.40 | B,S | ② |

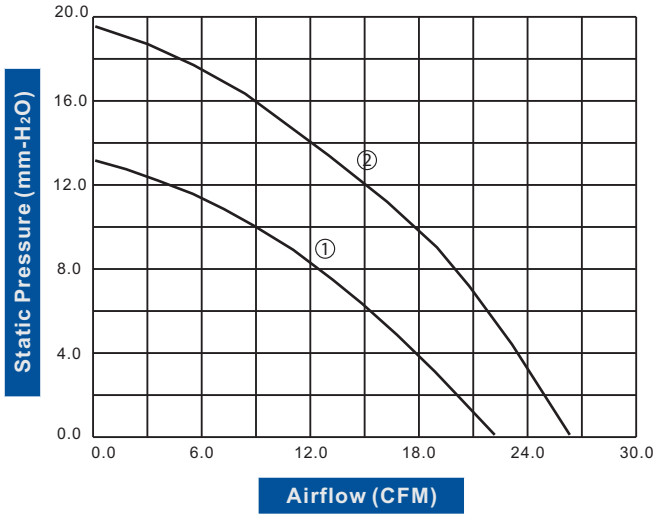
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- If model depicts "★", auto restart protection function built in.

Specifications are subject to change without notice

AUTO RESTART FG




unit: mm



# DC BLOWER
# 180x171x81mm

Housing: Thermoplastic PBT, UL 94V-0 and Aluminum Alloy.
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~70℃(Humidity 35%-85%RH)
Lead Wire: UL Type #22 AWG
Weight: 926 g Packing: 12PCS/CTN

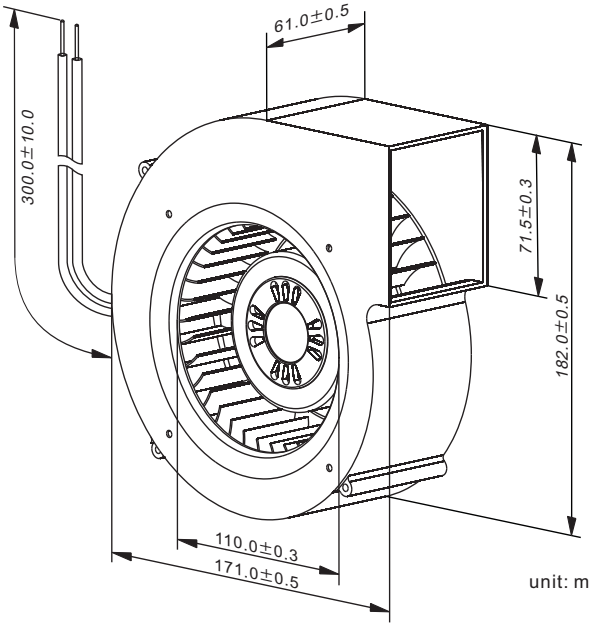
SS IP SF



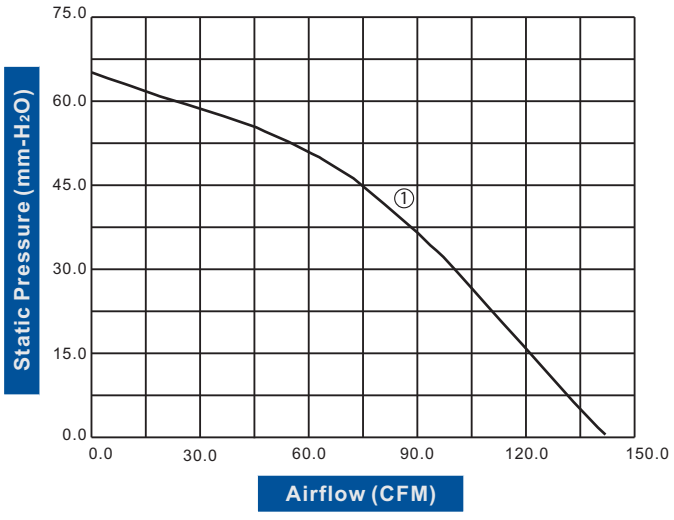
| Model Number | | Voltage (VDC) | Op.Voltage (VDC) | Air Flow (CFM) | Static Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FBD1881B24W3-61 | ★▲ | 24 | 12.0~27.6 | 138.90 | 64.80 | 62.10 | 2,000 | 2200 | 52.80 | B | ① |
| FBD1881B48W3-61 | ★▲ | 48 | 24.0~55.2 | 138.90 | 64.80 | 62.10 | 2,000 | 1100 | 52.80 | B | ① |

- If model depicts "★", auto restart protection function built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN 80x80x25mm

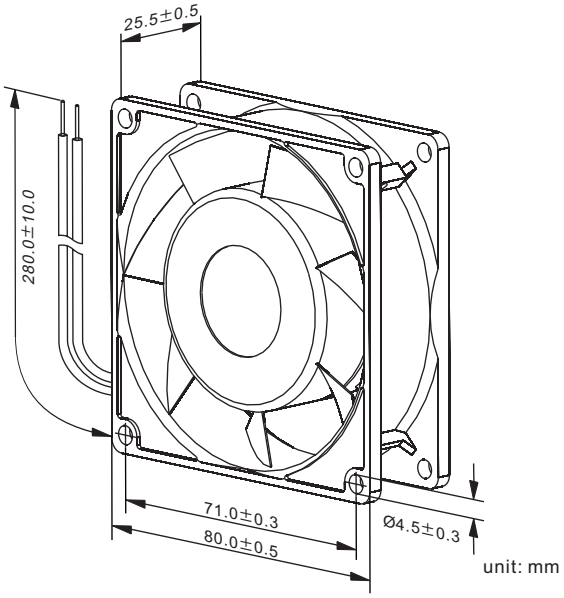
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 223 g **Packing:** 100PCS/CTN

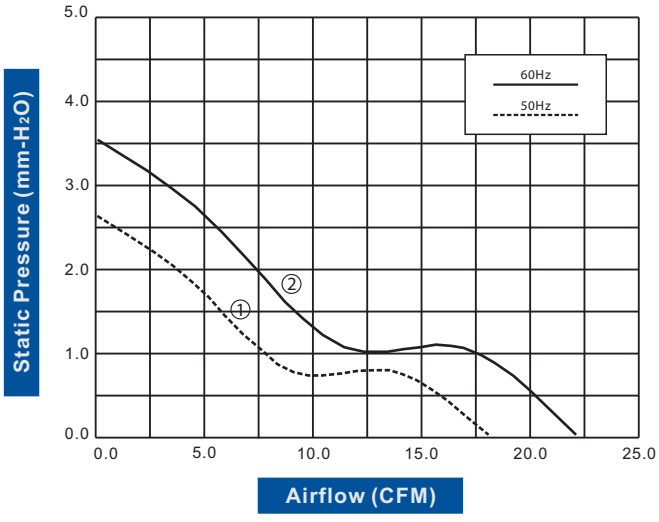
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA8025B11T7-51 | 115 | 50/60 | 18.0/22.0 | 2.6/3.5 | 25.0/32.0 | 2,400/2,900 | 70/60 | 6/5 | B,S | ①/② |
| FA8025B22T7-51 | 230 | 50/60 | 18.0/22.0 | 2.6/3.5 | 25.0/32.0 | 2,400/3,000 | 50/40 | 9/7 | B,S | ①/② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice



# AC AXIAL FAN 80x80x25mm

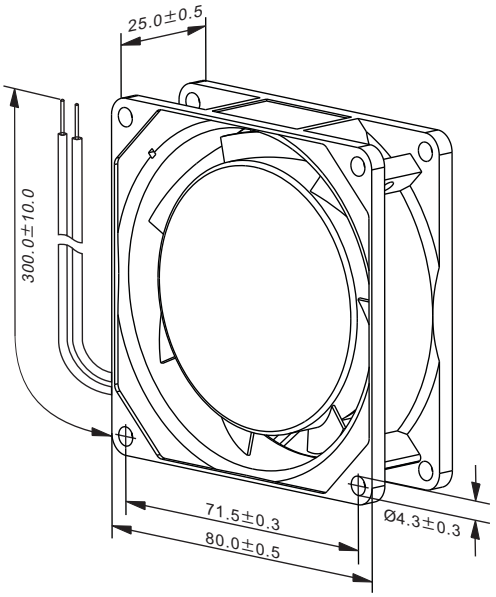
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 250 g **Packing:** 60PCS/CTN

SS IP

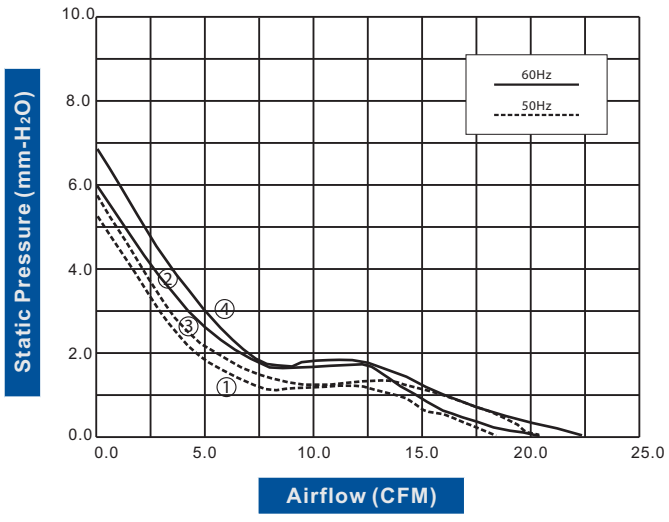
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA8025B11T5-96 | 115 | 50/60 | 18.3/20.3 | 5.2/5.9 | 28.6/32.5 | 2,400/3,100 | 130/110 | 12/10 | B,S | ①/② |
| FA8025B11T7-96 | 115 | 50/60 | 20.3/22.3 | 5.7/6.4 | 29.6/33.5 | 2,500/3,200 | 140/120 | 13/11 | B,S | ③/④ |
| FA8025B22T5-96 | 230 | 50/60 | 18.3/20.3 | 5.2/5.9 | 28.6/32.5 | 2,400/3,000 | 60/50 | 11/9 | B,S | ①/② |
| FA8025B22T7-96 | 230 | 50/60 | 20.3/22.3 | 5.7/6.4 | 29.6/33.5 | 2,500/3,200 | 65/55 | 12/10 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 80x80x38mm

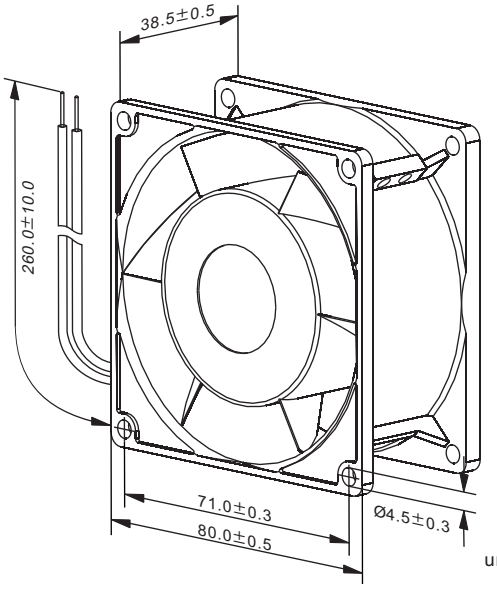
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 232 g **Packing:** 50PCS/CTN

ES IP

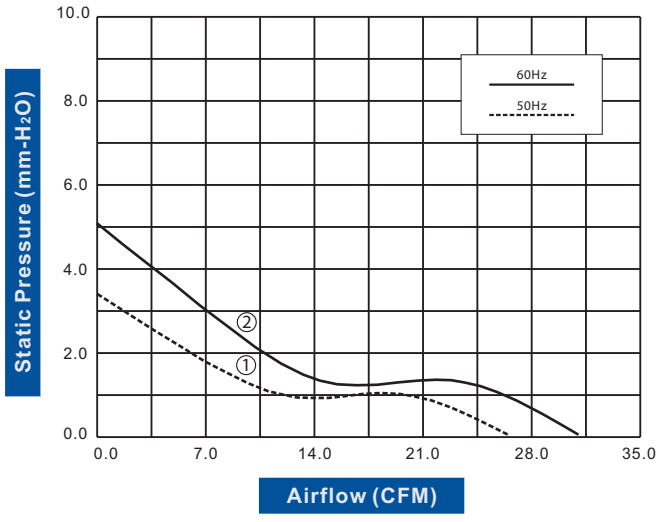
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA8038B11T7-51 | 115 | 50/60 | 26.0/31.0 | 3.4/5.0 | 35.0/39.0 | 2,700/3,100 | 150/120 | 11/9 | B,S | ①/② |
| FA8038B22T7-51 | 230 | 50/60 | 26.0/31.0 | 3.4/5.0 | 35.0/39.0 | 2,700/3,100 | 80/60 | 11/9 | B,S | ①/② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 80x80x38mm

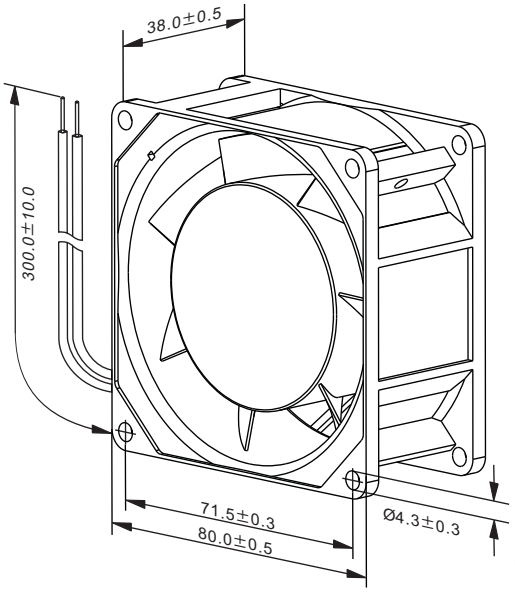
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 290 g **Packing:** 60PCS/CTN

SS IP

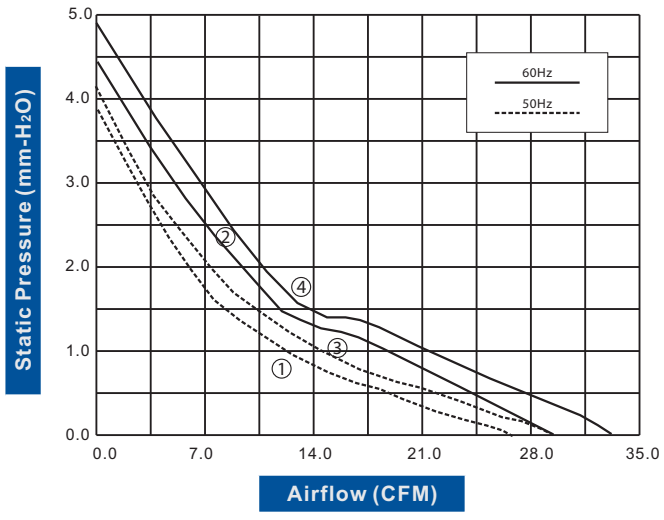
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA8038B11T5-96 | 115 | 50/60 | 26.4/29.4 | 3.9/4.4 | 29.6/34.5 | 2,300/2,600 | 160/120 | 9/7 | B,S | ①/② |
| FA8038B11T7-96 | 115 | 50/60 | 29.4/32.5 | 4.1/4.9 | 31.5/36.4 | 2,400/2,700 | 200/160 | 12/9 | B,S | ③/④ |
| FA8038B22T5-96 | 230 | 50/60 | 26.4/29.4 | 3.9/4.4 | 29.6/34.5 | 2,200/2,600 | 65/50 | 11/8 | B,S | ①/② |
| FA8038B22T7-96 | 230 | 50/60 | 29.4/32.5 | 4.1/4.9 | 31.5/36.4 | 2,300/2,700 | 100/100 | 13/9 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 92x92x25mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 300 g **Packing:** 50PCS/CTN

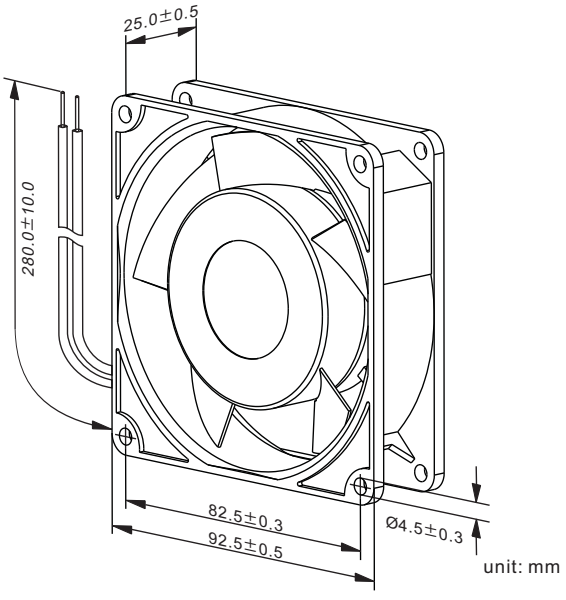
ES IP

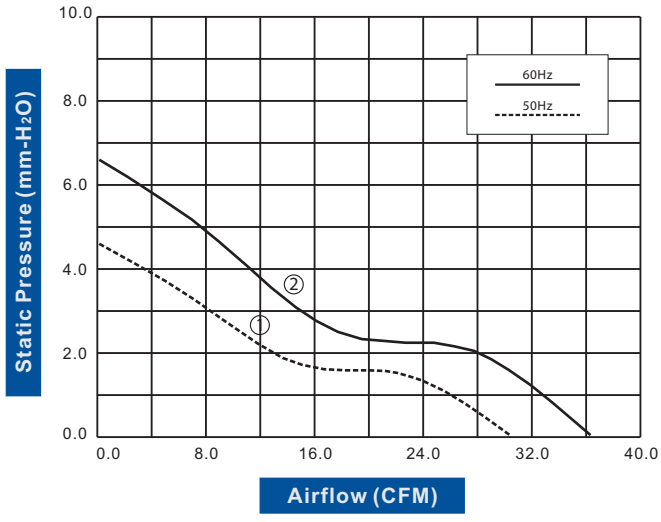
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA9225B11T7-51 | 115 | 50/60 | 30.0/36.0 | 4.6/6.5 | 40.0/45.0 | 2,700/3,200 | 140/110 | 11/9 | B,S | ①/② |
| FA9225B22T7-51 | 230 | 50/60 | 30.0/36.0 | 4.6/6.5 | 40.0/45.0 | 2,600/3,100 | 70/60 | 12/10 | B,S | ①/② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice





# AC AXIAL FAN
# 92x92x25mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 240 g **Packing:** 60PCS/CTN

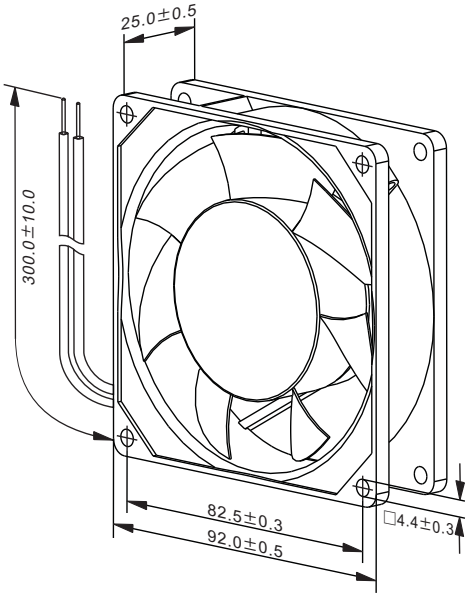
SS

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA9225B11T7-61 | 115 | 50/60 | 22.3/30.5 | 1.2/1.9 | 21.7/25.6 | 1,400/1,900 | 130/130 | 13/11 | B,S | ①/② |
| FA9225B22T7-61 | 230 | 50/60 | 22.3/30.5 | 1.2/1.9 | 21.7/25.6 | 1,400/1,900 | 100/100 | 13/11 | B,S | ①/② |

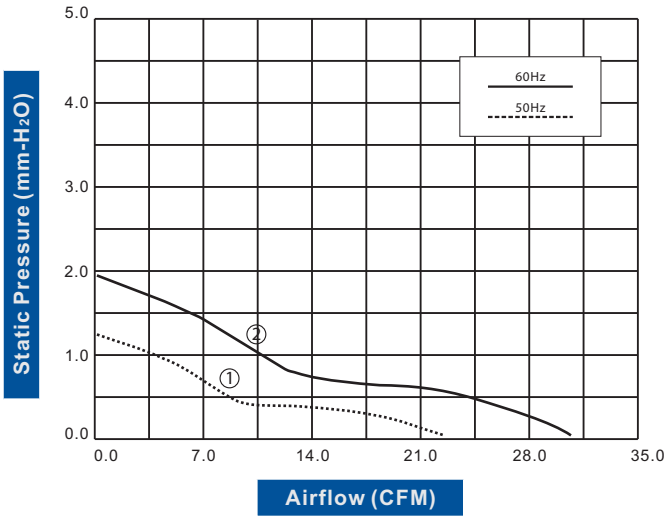
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 92x92x25mm

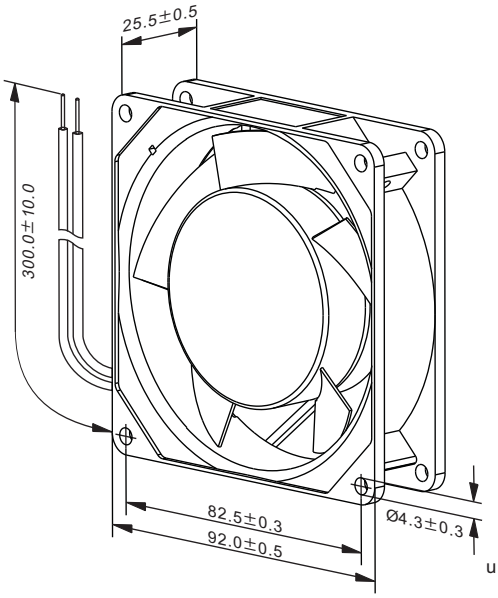
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 260 g **Packing:** 60PCS/CTN

SS IP

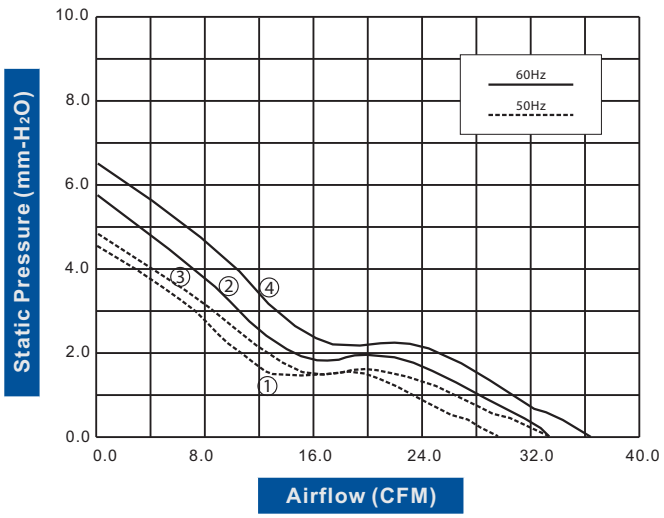
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA9225B11T5-96 | 115 | 50/60 | 29.4/33.5 | 4.4/5.9 | 33.5/35.5 | 2,300/2,800 | 130/110 | 12/10 | B,S | ①/② |
| FA9225B11T7-96 | 115 | 50/60 | 33.5/36.5 | 4.6/6.4 | 35.5/37.4 | 2,400/2,900 | 140/120 | 13/11 | B,S | ③/④ |
| FA9225B22T5-96 | 230 | 50/60 | 29.4/33.5 | 4.4/5.9 | 33.5/35.5 | 2,300/2,800 | 60/50 | 11/9 | B,S | ①/② |
| FA9225B22T7-96 | 230 | 50/60 | 33.5/36.5 | 4.6/6.4 | 35.5/37.4 | 2,400/2,900 | 65/55 | 12/10 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 92x92x38mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 446 g **Packing:** 50PCS/CTN

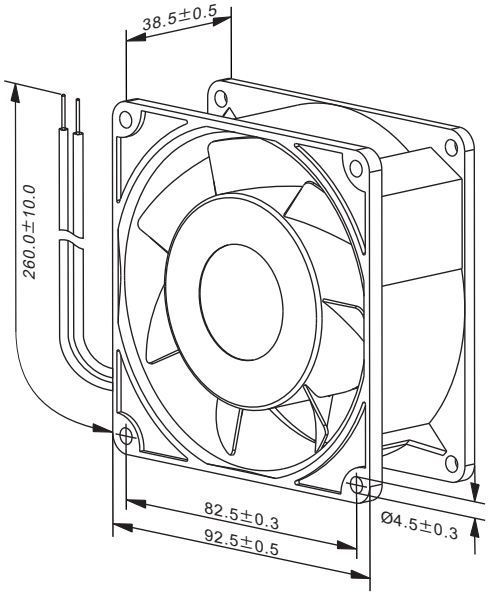
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA9238B11T7-51 | 115 | 50/60 | 42.0/49.0 | 5.2/7.1 | 40.0/45.0 | 2,800/3,200 | 190/150 | 14/11 | B,S | ①/② |
| FA9238B22T7-51 | 230 | 50/60 | 42.0/49.0 | 5.2/7.1 | 40.0/45.0 | 2,800/3,200 | 100/80 | 15/12 | B,S | ①/② |

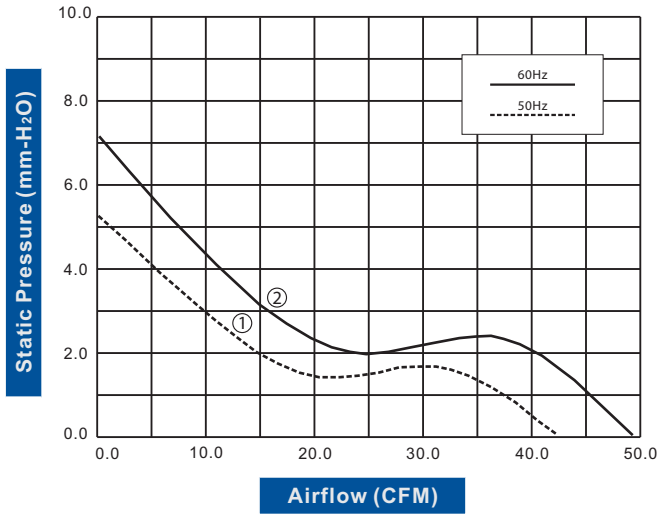
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 92x92x38mm

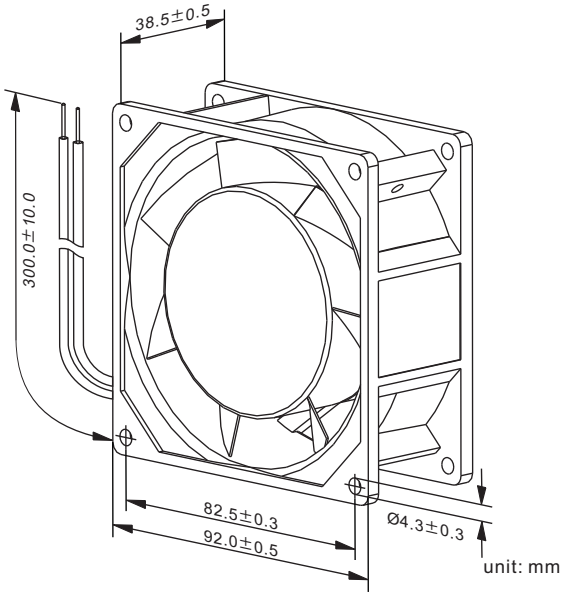
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 320 g **Packing:** 60PCS/CTN

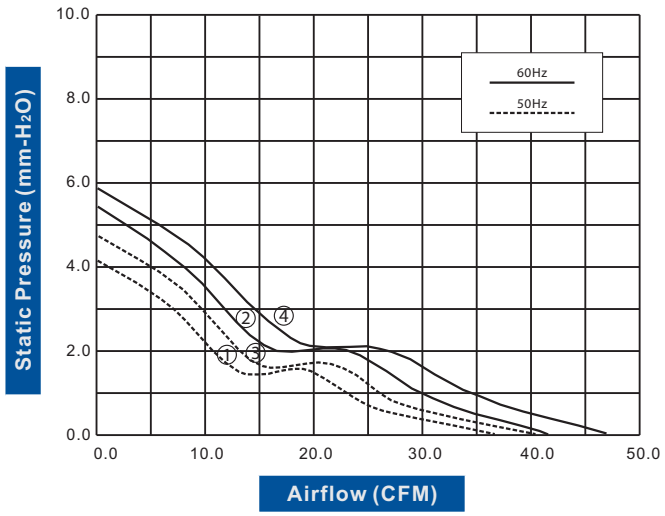
SS IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA9238B11T5-96 | 115 | 50/60 | 37.6/42.6 | 4.1/5.4 | 35.5/38.4 | 2,100/2,400 | 110/90 | 9/7 | B,S | ①/② |
| FA9238B11T7-96 | 115 | 50/60 | 40.6/46.7 | 4.6/5.9 | 36.4/40.4 | 2,200/2,600 | 140/110 | 12/9 | B,S | ③/④ |
| FA9238B22T5-96 | 230 | 50/60 | 37.6/42.6 | 4.1/5.4 | 35.5/38.4 | 2,100/2,400 | 65/60 | 11/9 | B,S | ①/② |
| FA9238B22T7-96 | 230 | 50/60 | 40.6/46.7 | 4.6/5.9 | 36.4/40.4 | 2,200/2,600 | 75/60 | 12/10 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice



# AC AXIAL FAN
# 110x110x25mm

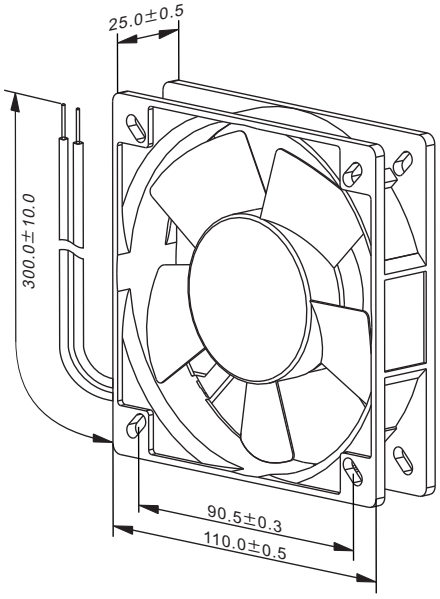
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 320 g **Packing:** 40PCS/CTN

SS IP

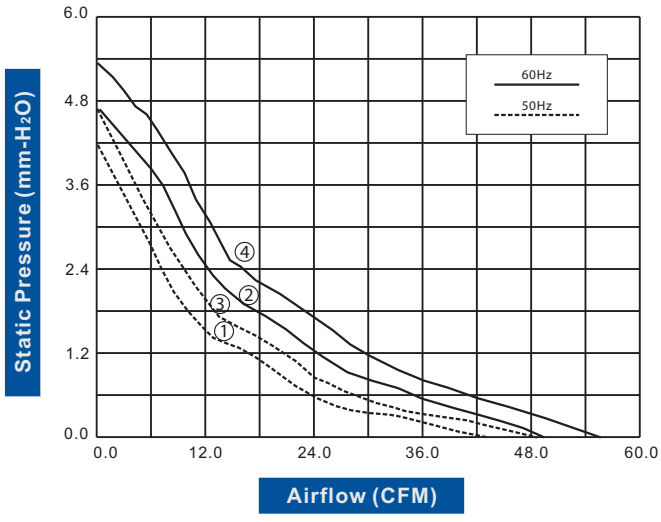
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1125B11T5-96 | 115 | 50/60 | 43.6/49.7 | 4.1/4.6 | 36.4/39.4 | 2,000/2,200 | 130/110 | 12/10 | B,S | ①/② |
| FA1125B11T7-96 | 115 | 50/60 | 48.7/55.8 | 4.6/5.2 | 38.4/41.4 | 2,100/2,300 | 140/120 | 13/11 | B,S | ③/④ |
| FA1125B22T5-96 | 230 | 50/60 | 43.6/49.7 | 4.1/4.6 | 36.4/39.4 | 2,000/2,200 | 80/70 | 11/9 | B,S | ①/② |
| FA1125B22T7-96 | 230 | 50/60 | 48.7/55.8 | 4.6/5.2 | 38.4/41.4 | 2,100/2,300 | 90/80 | 12/10 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x25mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 370 g **Packing:** 40PCS/CTN

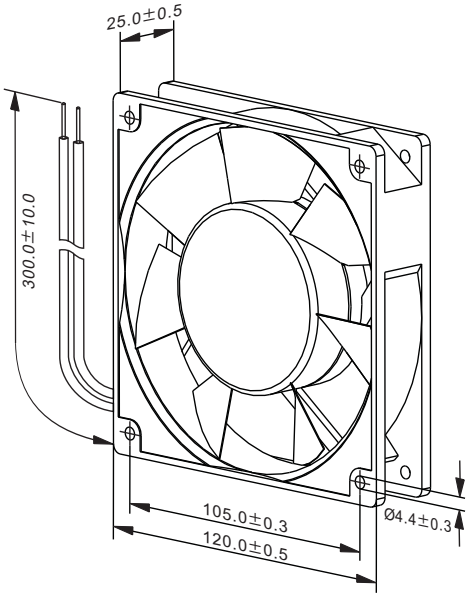
SS

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1225B11T7C-31 | 115 | 50/60 | 77.1/91.4 | 4.7/5.4 | 37.4/42.4 | 2,450/2,900 | 80/80 | 18/19 | B,S | ①/② |
| FA1225B22T7C-31 | 230 | 50/60 | 77.1/91.4 | 4.7/5.4 | 37.4/42.4 | 2,450/2,900 | 80/80 | 19/19 | B,S | ①/② |

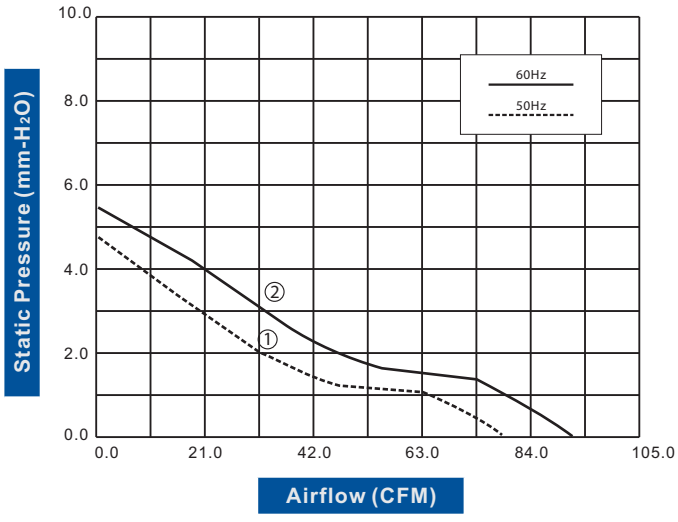
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 120x120x25mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 346 g **Packing:** 40PCS/CTN

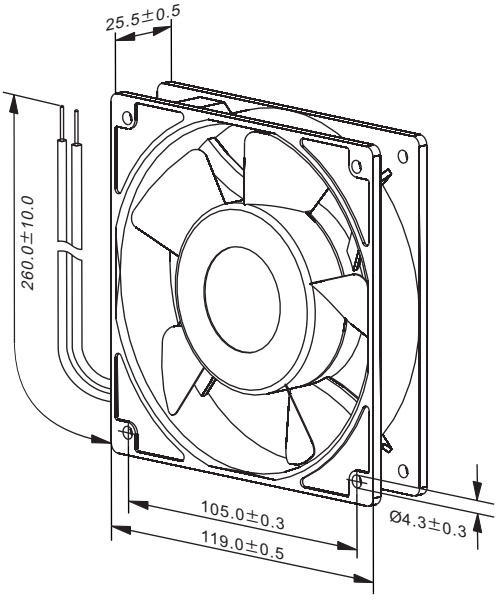
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1225B11T7-51 | 115 | 50/60 | 61.0/72.0 | 5.6/6.3 | 42.0/45.0 | 2,600/3,100 | 150/120 | 13/10 | B,S | ①/② |
| FA1225B22T7-51 | 230 | 50/60 | 61.0/72.0 | 5.6/6.3 | 42.0/45.0 | 2,600/3,000 | 70/60 | 13/10 | B,S | ①/② |

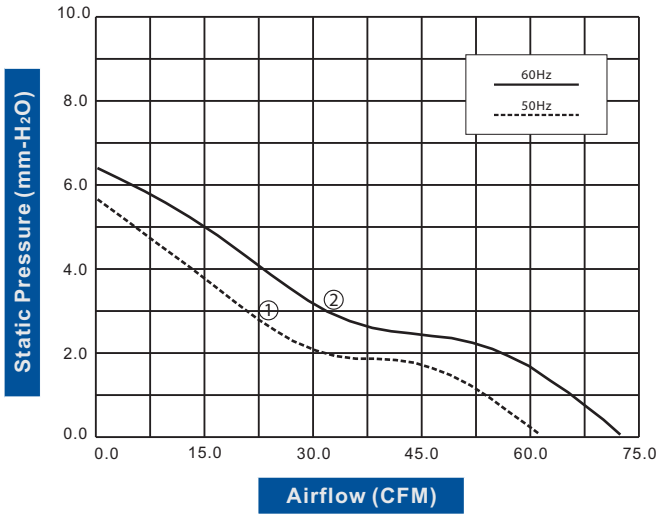
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 120x120x25mm

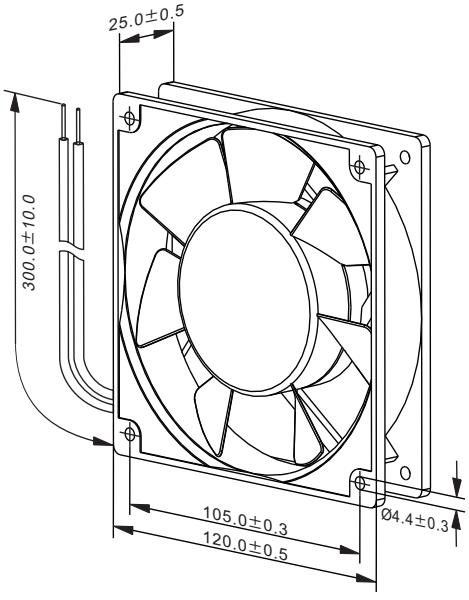
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 370 g **Packing:** 40PCS/CTN

SS

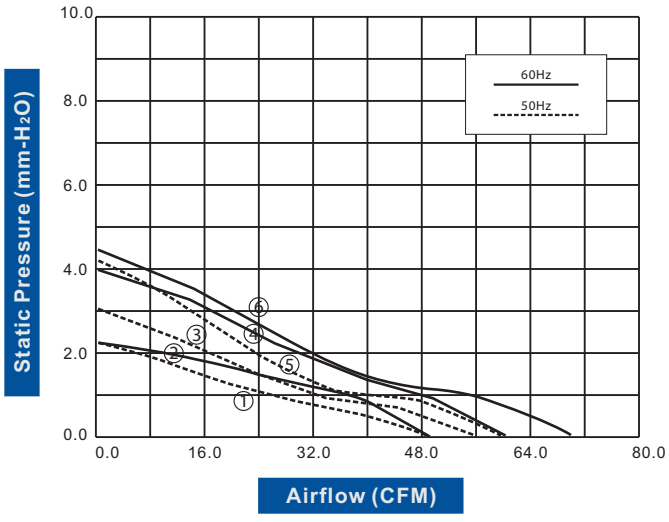
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1225B11T3-61 | 115 | 50/60 | 50.8/50.8 | 2.2/2.2 | 30.5/30.5 | 1,800/1,800 | 90/90 | 9/8 | B,S | ①/② |
| FA1225B11T5-61 | 115 | 50/60 | 55.8/60.9 | 3.0/3.8 | 32.5/33.5 | 2,000/2,200 | 130/130 | 11/10 | B,S | ③/④ |
| FA1225B11T7-61 | 115 | 50/60 | 59.9/69.0 | 4.1/4.4 | 33.5/38.4 | 2,150/2,450 | 170/170 | 14/13 | B,S | ⑤/⑥ |
| FA1225B22T3-61 | 230 | 50/60 | 50.8/50.8 | 2.2/2.2 | 30.5/30.5 | 1,800/1,800 | 50/50 | 9/8 | B,S | ①/② |
| FA1225B22T5-61 | 230 | 50/60 | 55.8/60.9 | 3.0/3.8 | 32.5/33.5 | 2,000/2,200 | 60/60 | 11/10 | B,S | ③/④ |
| FA1225B22T7-61 | 230 | 50/60 | 59.5/69.0 | 4.1/4.4 | 33.5/38.4 | 2,150/2,450 | 70/70 | 14/13 | B,S | ⑤/⑥ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x25mm

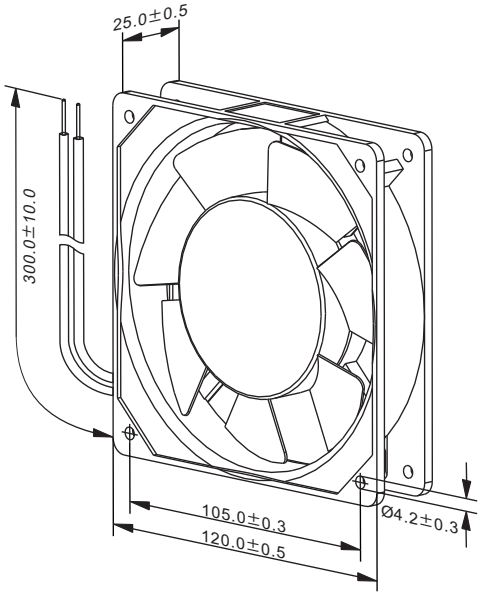
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 335 g **Packing:** 40PCS/CTN

SS IP

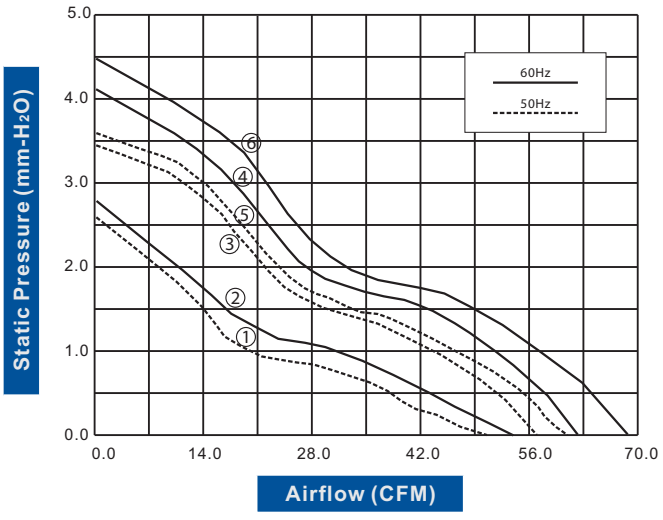
| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1225B11T5-96 | 115 | 50/60 | 50.8/53.8 | 2.6/2.8 | 29.6/31.5 | 2,000/2,200 | 120/100 | 11/9 | B,S | ①/② |
| FA1225B11T7-96 | 115 | 50/60 | 56.8/62.9 | 3.4/4.1 | 35.5/37.4 | 2,100/2,400 | 120/110 | 11/10 | B,S | ③/④ |
| FA1225B11T9-96 | 115 | 50/60 | 60.9/68.0 | 3.6/4.4 | 37.4/39.4 | 2,200/2,500 | 140/120 | 13/11 | B,S | ⑤/⑥ |
| FA1225B22T5-96 | 230 | 50/60 | 50.8/53.8 | 2.6/2.8 | 29.6/31.5 | 2,000/2,200 | 60/50 | 11/9 | B,S | ①/② |
| FA1225B22T7-96 | 230 | 50/60 | 56.8/62.9 | 3.4/4.1 | 35.5/37.4 | 2,100/2,300 | 76/64 | 14/12 | B,S | ③/④ |
| FA1225B22T9-96 | 230 | 50/60 | 60.9/68.0 | 3.6/4.4 | 37.4/39.4 | 2,200/2,400 | 80/70 | 15/13 | B,S | ⑤/⑥ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x38mm

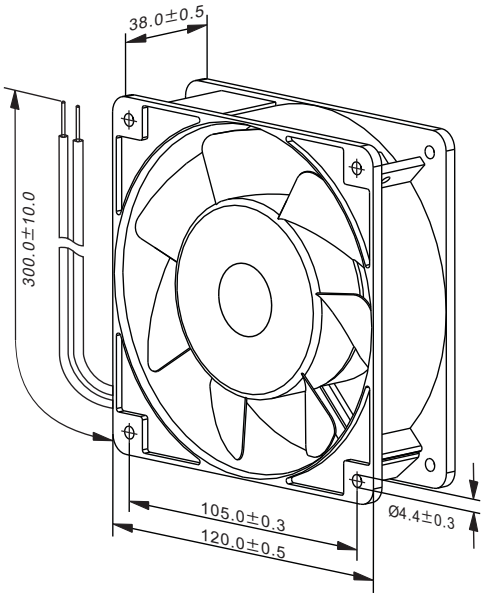
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 504 g **Packing:** 40PCS/CTN

**SS**

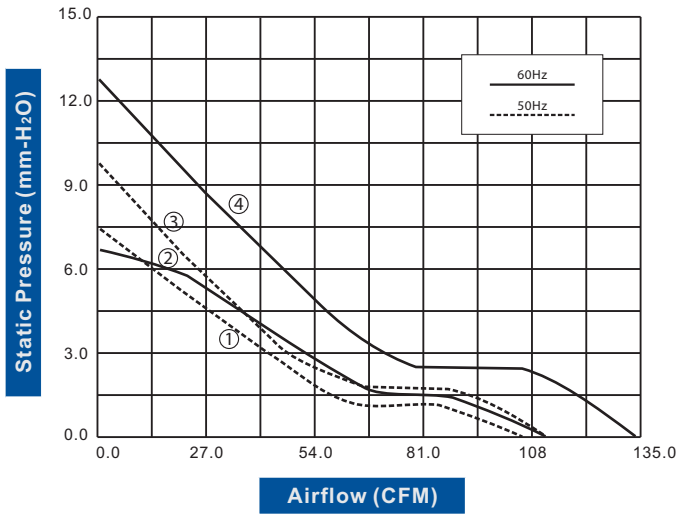
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T7C-31 | 115 | 50/60 | 105.6/110.6 | 7.4/6.6 | 38.4/42.4 | 2,550/2,800 | 150/160 | 13/14 | B,S | ①/② |
| FA1238B11T9C-31 | 115 | 50/60 | 110.6/132.0 | 9.7/12.7 | 42.4/46.3 | 2,800/3,300 | 170/180 | 22/22 | B,S | ③/④ |
| FA1238B22T7C-31 | 230 | 50/60 | 105.6/110.6 | 7.4/6.6 | 38.4/42.4 | 2,550/2,800 | 80/90 | 13/14 | B,S | ①/② |
| FA1238B22T9C-31 | 230 | 50/60 | 110.6/132.0 | 9.7/12.7 | 42.4/46.3 | 2,800/3,300 | 100/110 | 21/21 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN 120x120x38mm

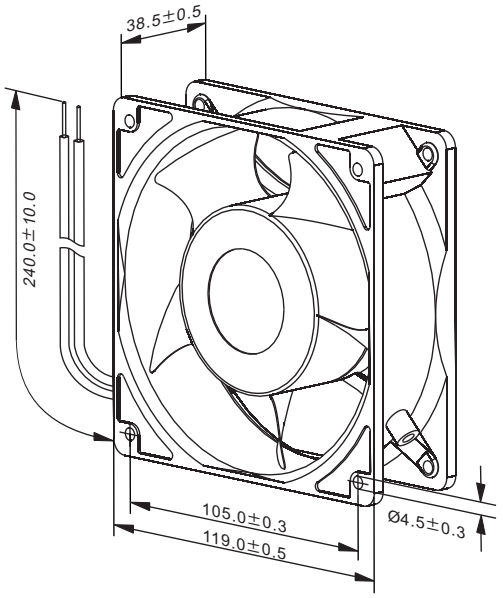
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 515 g **Packing:** 40PCS/CTN

ES IP

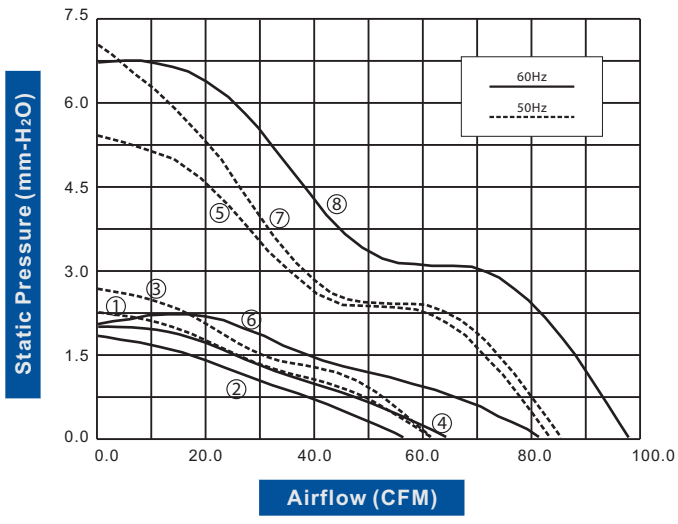
| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T1-51 | 115 | 50/60 | 61.0/56.0 | 2.3/1.8 | 34.0/33.0 | 1,900/1,700 | 80/70 | 7/6 | B,S | ①/② |
| FA1238B11T3-51 | 115 | 50/60 | 61.0/64.0 | 2.7/2.1 | 34.0/35.0 | 2,000/1,900 | 130/110 | 11/10 | B,S | ③/④ |
| FA1238B11T5-51 | 115 | 50/60 | 83.0/81.0 | 5.2/2.2 | 43.0/42.0 | 2,500/2,500 | 140/130 | 11/11 | B,S | ⑤/⑥ |
| FA1238B11T7-51 | 115 | 50/60 | 85.0/97.0 | 7.1/6.7 | 44.0/48.0 | 2,600/3,000 | 260/210 | 20/16 | B,S | ⑦/⑧ |
| FA1238B22T1-51 | 230 | 50/60 | 59.0/59.0 | 2.3/1.8 | 33.0/33.0 | 1,900/1,800 | 50/40 | 9/8 | B,S | ①/② |
| FA1238B22T3-51 | 230 | 50/60 | 61.0/64.0 | 2.7/2.1 | 34.0/35.0 | 1,900/2,000 | 70/60 | 12/10 | B,S | ③/④ |
| FA1238B22T5-51 | 230 | 50/60 | 83.0/81.0 | 5.2/2.2 | 43.0/42.0 | 2,500/2,500 | 70/60 | 12/11 | B,S | ⑤/⑥ |
| FA1238B22T7-51 | 230 | 50/60 | 85.0/97.0 | 7.1/6.7 | 44.0/48.0 | 2,700/3,100 | 130/100 | 20/16 | B,S | ⑦/⑧ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x38mm

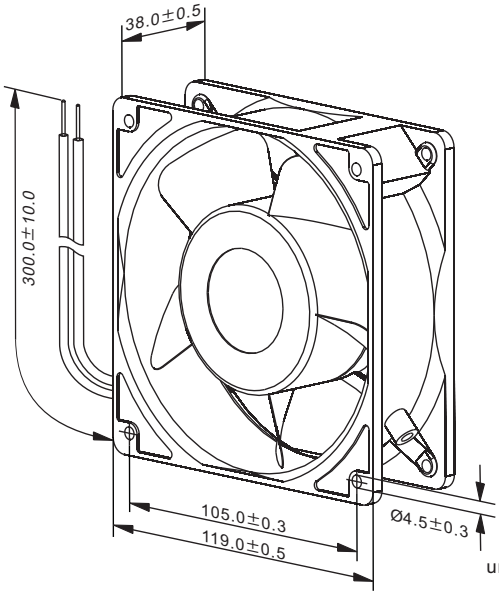
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 515 g **Packing:** 40PCS/CTN

ES IP

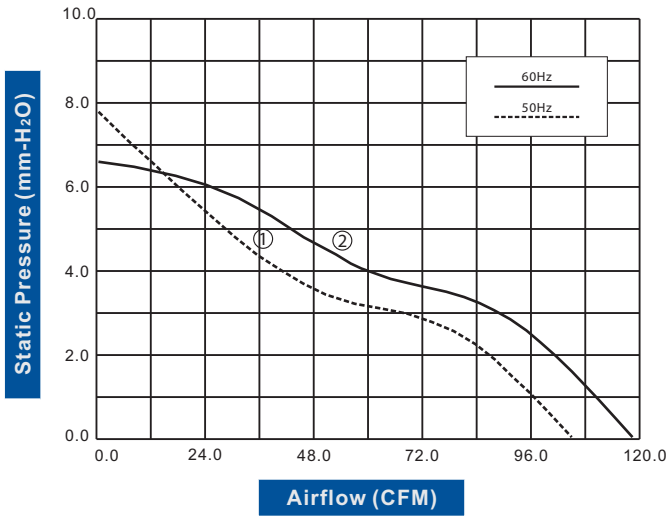
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T7-52 | 115 | 50/60 | 103.0/117.0 | 7.8/6.6 | 43.0/47.0 | 2,700/3,000 | 220/180 | 16/14 | B,S | ①/② |
| FA1238B22T7-52 | 230 | 50/60 | 103.0/117.0 | 7.8/6.6 | 43.0/47.0 | 2,700/3,100 | 110/90 | 16/14 | B,S | ①/② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x38mm

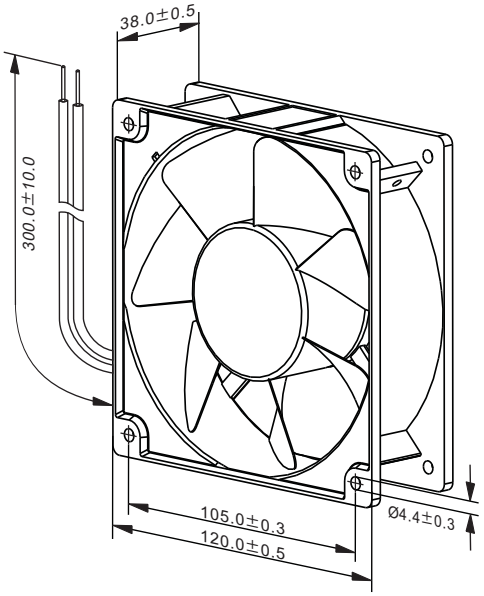
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 560 g Packing: 40PCS/CTN

SS

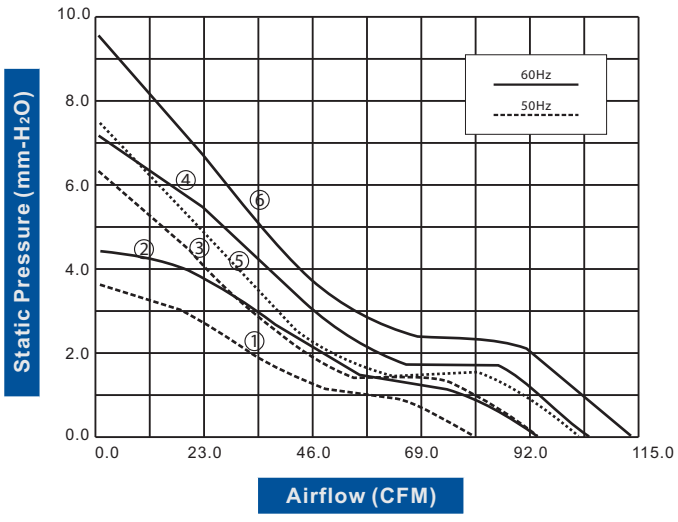
| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T3-61 | 115 | 50/60 | 79.2/92.4 | 3.6/4.4 | 34.5/37.4 | 2,100/2,450 | 200/200 | 14/13 | B,S | ①/② |
| FA1238B11T5-61 | 115 | 50/60 | 92.4/101.5 | 6.3/7.1 | 38.4/41.4 | 2,450/2,700 | 250/250 | 19/17 | B,S | ③/④ |
| FA1238B11T7-61 | 115 | 50/60 | 100.5/113.7 | 7.5/9.4 | 39.4/43.3 | 2,600/3,000 | 300/300 | 29/24 | B,S | ⑤/⑥ |
| FA1238B22T3-61 | 230 | 50/60 | 79.2/92.4 | 3.6/4.4 | 34.5/37.4 | 2,100/2,450 | 100/100 | 12/11 | B,S | ①/② |
| FA1238B22T5-61 | 230 | 50/60 | 92.4/101.5 | 6.2/7.1 | 38.4/41.4 | 2,450/2,700 | 160/160 | 16/15 | B,S | ③/④ |
| FA1238B22T7-61 | 230 | 50/60 | 100.5/113.7 | 7.5/9.4 | 39.4/43.3 | 2,600/3,000 | 200/200 | 28/24 | B,S | ⑤/⑥ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x38mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 504 g Packing: 40PCS/CTN

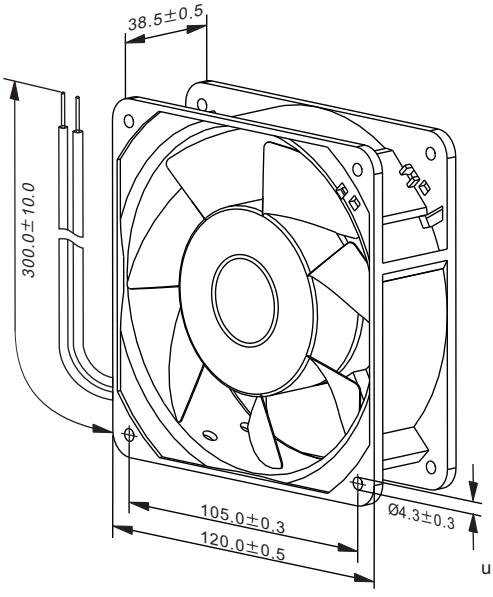
SS IP

| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11W5-78 | 115 | 50/60 | 109.0/130.0 | 8.6/10.8 | 43.0/47.0 | 2,700/3,200 | 170/180 | 22/22 | B,S | ①/② |
| FA1238B22W5-78 | 230 | 50/60 | 109.0/130.0 | 8.6/10.8 | 43.0/47.0 | 2,700/3,200 | 100/110 | 21/21 | B,S | ①/② |

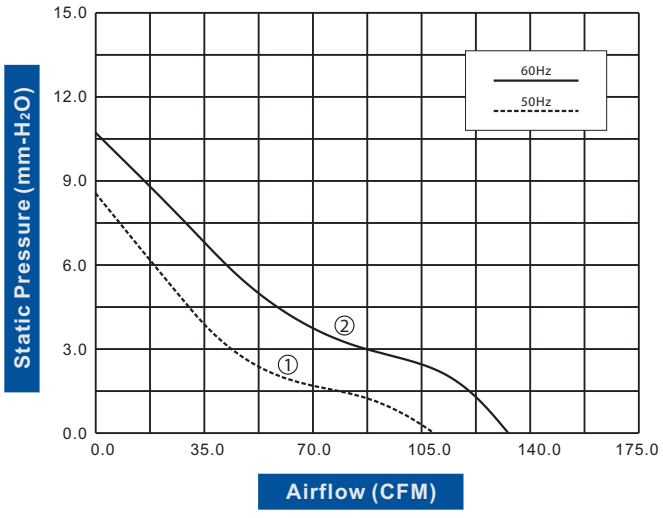
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 120x120x38mm

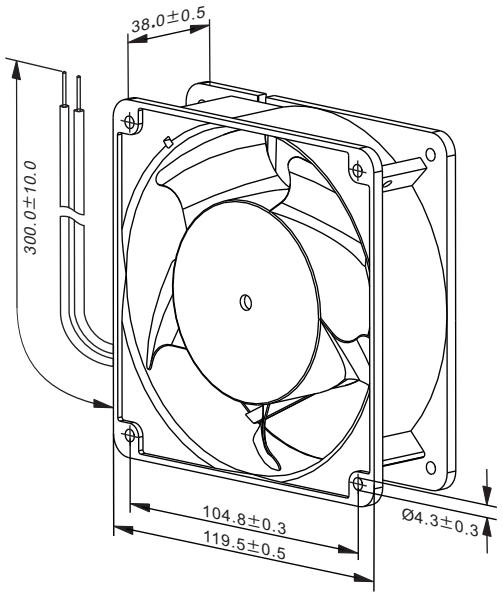
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 520 g Packing: 40PCS/CTN

SS

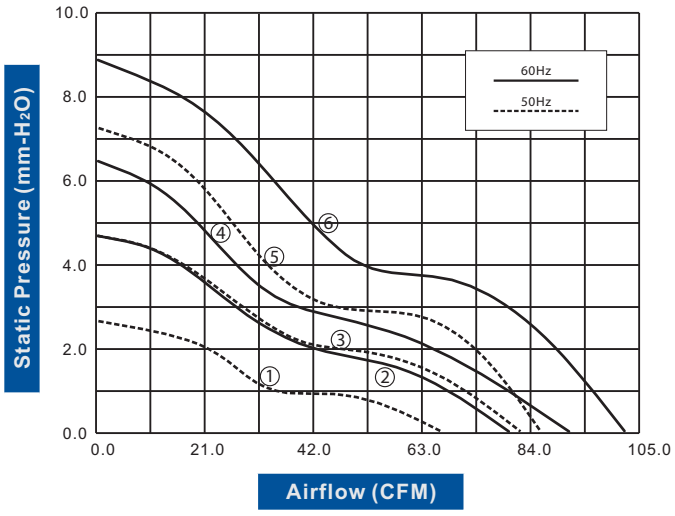
| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T3-92 | 115 | 50/60 | 66.0/79.2 | 2.5/4.7 | 34.5/39.4 | 1,900/2,500 | 120/100 | 11/9 | B,S | ①/② |
| FA1238B11T5-92 | 115 | 50/60 | 81.2/91.4 | 4.7/6.2 | 38.4/42.4 | 2,500/2,800 | 170/130 | 14/10 | B,S | ③/④ |
| FA1238B11T7-92 | 115 | 50/60 | 85.3/101.5 | 7.2/8.7 | 44.3/50.2 | 2,600/3,000 | 280/210 | 25/19 | B,S | ⑤/⑥ |
| FA1238B22T3-92 | 230 | 50/60 | 66.0/79.2 | 2.5/4.7 | 34.5/39.4 | 1,900/2,500 | 60/50 | 12/10 | B,S | ①/② |
| FA1238B22T5-92 | 230 | 50/60 | 81.2/91.4 | 4.7/6.2 | 38.4/42.4 | 2,500/2,800 | 90/70 | 16/11 | B,S | ③/④ |
| FA1238B22T7-92 | 230 | 50/60 | 85.3/101.5 | 7.2/8.7 | 44.3/50.2 | 2,600/3,000 | 130/90 | 21/15 | B,S | ⑤/⑥ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x38mm

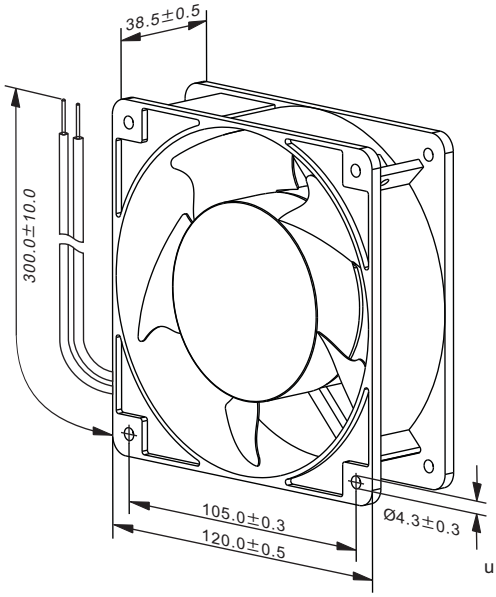
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 520 g **Packing:** 40PCS/CTN

SS IP

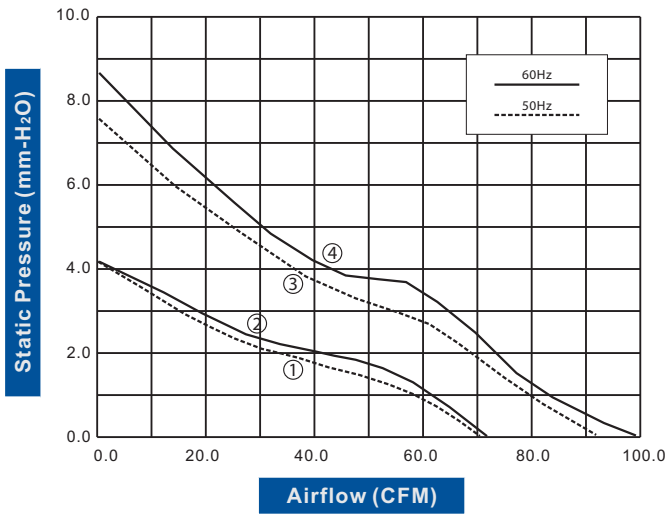
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T5-96 | 115 | 50/60 | 71.1/74.1 | 4.1/4.1 | 29.6/34.5 | 2,300/2,600 | 150/130 | 12/10 | B,S | ①/② |
| FA1238B11T7-96 | 115 | 50/60 | 91.4/99.5 | 7.7/8.5 | 39.4/44.3 | 2,500/3,000 | 260/210 | 20/17 | B,S | ③/④ |
| FA1238B22T5-96 | 230 | 50/60 | 75.1/63.9 | 3.9/3.4 | 33.5/29.6 | 2,100/1,400 | 55/52 | 10/9 | B,S | ①/② |
| FA1238B22T7-96 | 230 | 50/60 | 91.4/99.5 | 7.7/8.0 | 39.4/46.3 | 2,500/2,700 | 95/85 | 15/13 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 120x120x38mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 520 g **Packing:** 40PCS/CTN

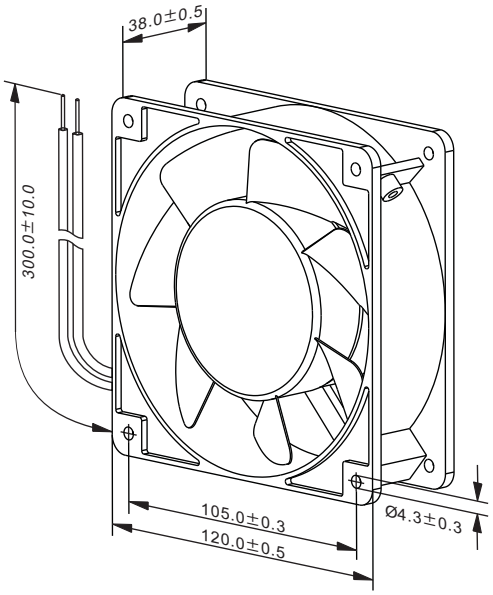
SS IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T7-97 | 115 | 50/60 | 104.5/109.6 | 7.6/9.1 | 43.3/47.3 | 2,400/2,600 | 280/230 | 22/18 | B,S | ①/② |
| FA1238B22T7-97 | 230 | 50/60 | 104.5/109.6 | 7.6/9.1 | 43.3/47.3 | 2,400/2,700 | 160/130 | 24/20 | B,S | ①/② |

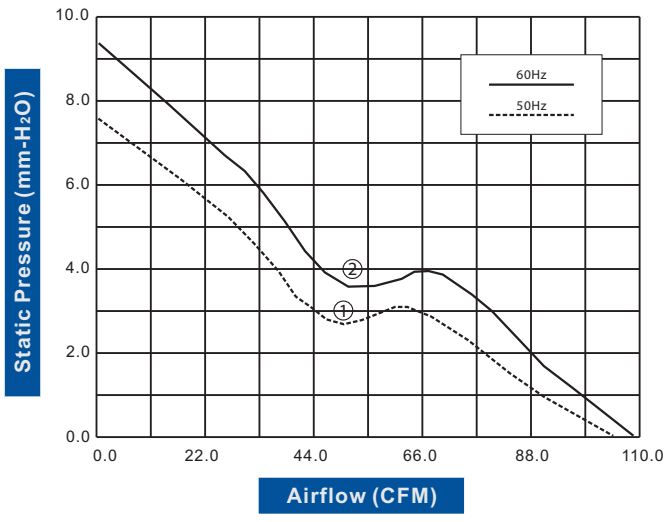
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 127x127x38mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 562 g **Packing:** 40PCS/CTN

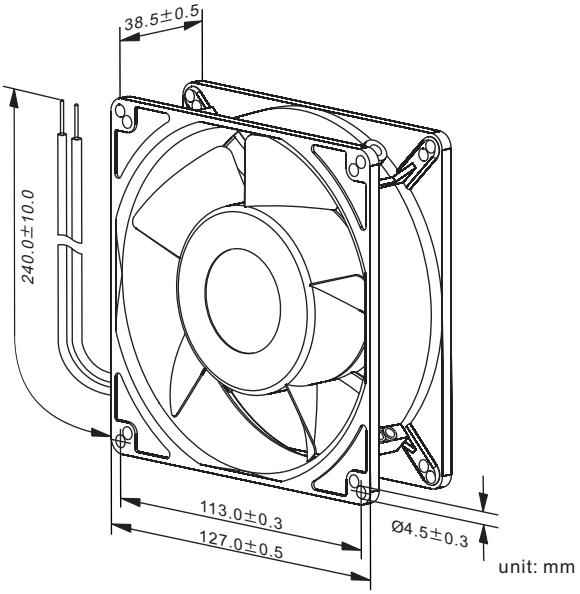
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1238B11T7-53 | 115 | 50/60 | 107.0/123.0 | 8.4/9.8 | 47.0/50.0 | 2,700/3,100 | 320/260 | 24/20 | B,S | ①/② |
| FA1238B22T7-53 | 230 | 50/60 | 107.0/123.0 | 8.4/9.8 | 47.0/50.0 | 2,700/3,100 | 160/130 | 25/20 | B,S | ①/② |

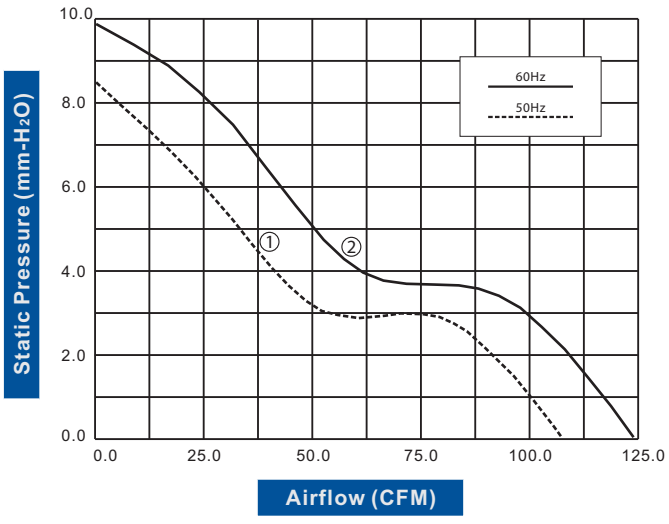
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 159x159x50mm

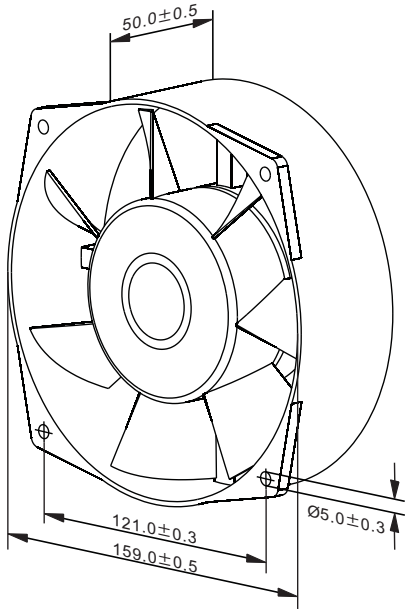
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 880 g **Packing:** 16PCS/CTN

ES IP

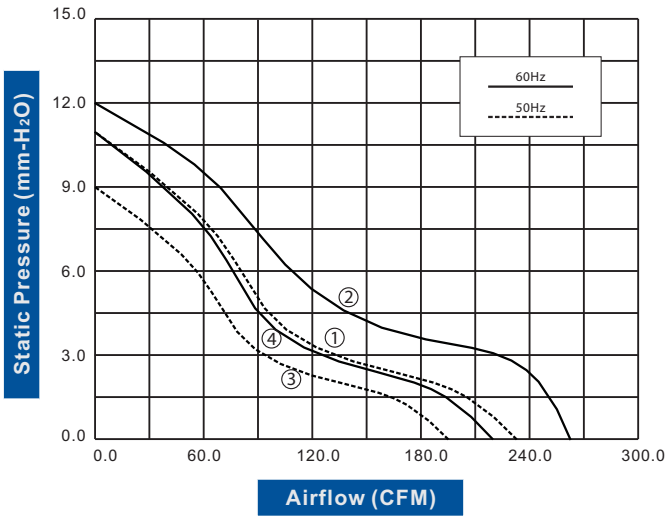
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1650B11W7-78 | 115 | 50/60 | 230.0/260.0 | 10.0/12.0 | 55.0/59.0 | 2,800/3,200 | 200/200 | 35/45 | B | ①/② |
| FA1650B11W5-78 | 115 | 50/60 | 195.0/220.0 | 9.0/10.0 | 52.0/56.0 | 2,600/2,800 | 200/200 | 35/45 | B | ③/④ |
| FA1650B22W7-78 | 230 | 50/60 | 230.0/260.0 | 10.0/12.0 | 55.0/59.0 | 2,800/3,200 | 150/150 | 35/45 | B | ①/② |
| FA1650B22W5-78 | 230 | 50/60 | 195.0/220.0 | 9.0/10.0 | 52.0/56.0 | 2,600/2,800 | 150/150 | 35/45 | B | ③/④ |

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 160x160x62mm
**(Reverse Blow)**

Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1400 g **Packing:** 12PCS/CTN

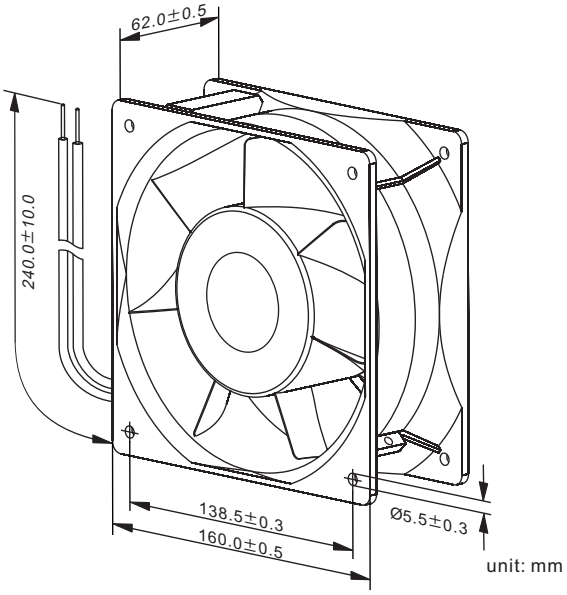
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1662B11T7C-51 | 115 | 50/60 | 261.0/307.0 | 14.7/19.6 | 60.0/64.0 | 2,900/3,400 | 450/500 | 51/58 | B | ①/② |
| FA1662B22T7C-51 | 230 | 50/60 | 261.0/305.0 | 14.7/19.6 | 60.0/64.0 | 2,900/3,400 | 230/250 | 51/57 | B | ①/② |

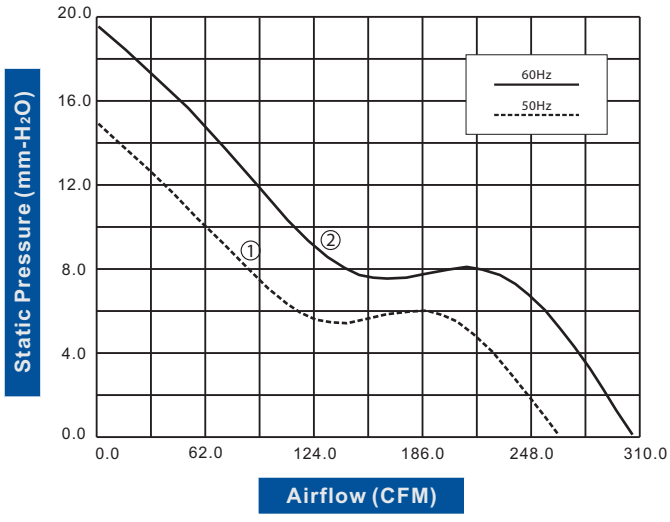
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 160x160x62mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1400 g **Packing:** 12PCS/CTN

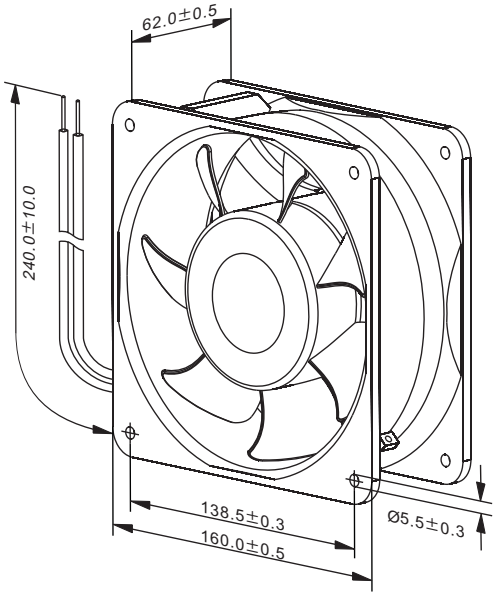
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1662B11T7C-52 | 115 | 50/60 | 241.0/285.0 | 13.6/18.7 | 51.0/56.0 | 2,900/3,400 | 450/500 | 51/57 | B | ①/② |
| FA1662B22T7C-52 | 230 | 50/60 | 239.0/288.0 | 13.6/18.7 | 51.0/56.0 | 2,900/3,500 | 230/240 | 50/55 | B | ①/② |

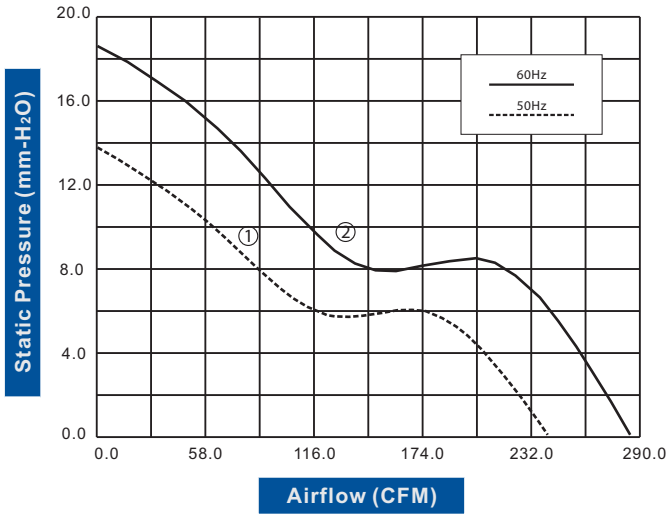
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 170x150x38mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 760 g **Packing:** 20PCS/CTN

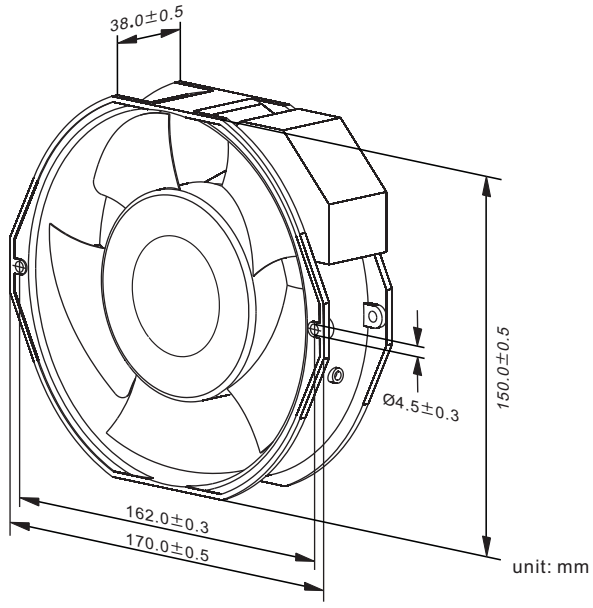
SS

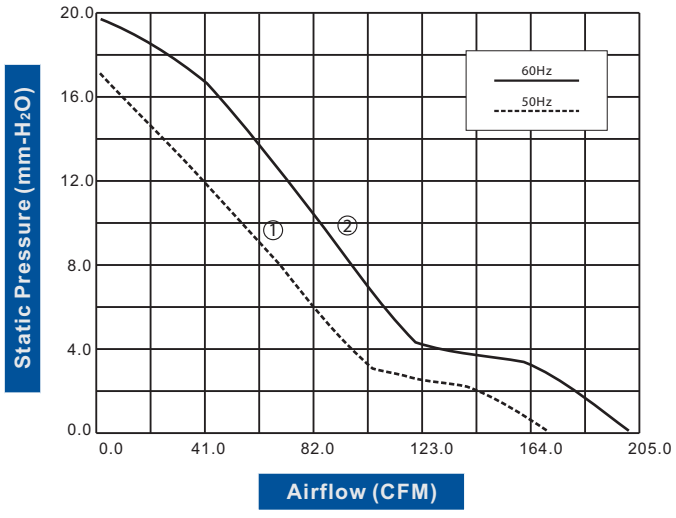
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1738B11T7C-31 | 115 | 50/60 | 168.5/201.0 | 17.0/19.8 | 56.1/60.1 | 2,850/3,300 | 250/260 | 30/31 | B | ①/② |
| FA1738B22T7C-31 | 230 | 50/60 | 168.5/201.0 | 17.0/19.8 | 56.1/60.1 | 2,850/3,300 | 160/170 | 36/35 | B | ①/② |

- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice





# AC AXIAL FAN
# 172x150x38mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 693 g **Packing:** 20PCS/CTN

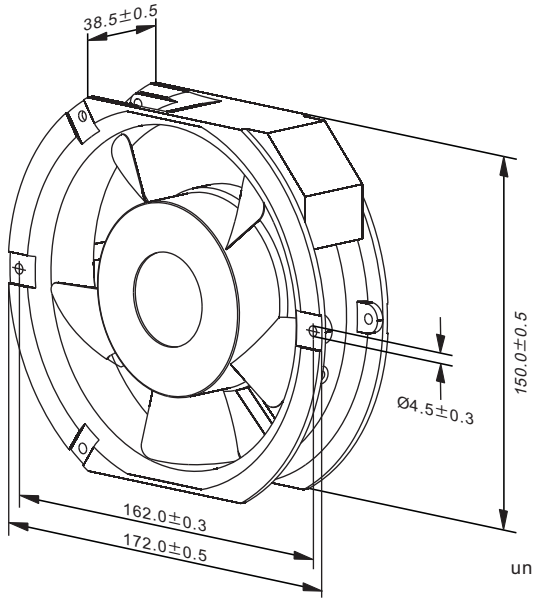
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1738B11T7C-51 | 115 | 50/60 | 198.0/225.0 | 16.3/11.9 | 58.0/62.0 | 2,900/3,300 | 220/290 | 25/32 | B | ①/② |
| FA1738B22T7C-51 | 230 | 50/60 | 198.0/225.0 | 16.3/11.9 | 58.0/62.0 | 2,900/3,400 | 110/140 | 25/31 | B | ①/② |

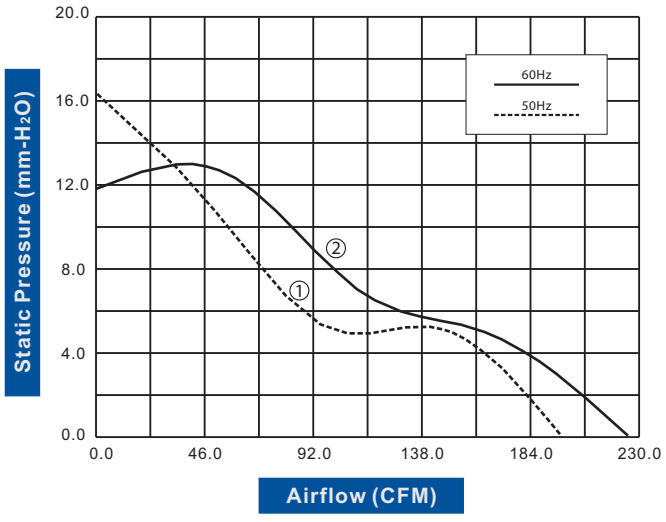
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 172x150x38mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 920 g **Packing:** 20PCS/CTN

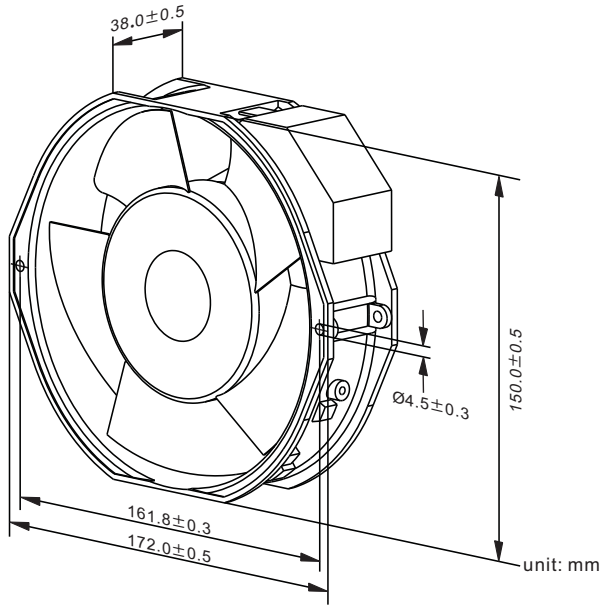
SS IP

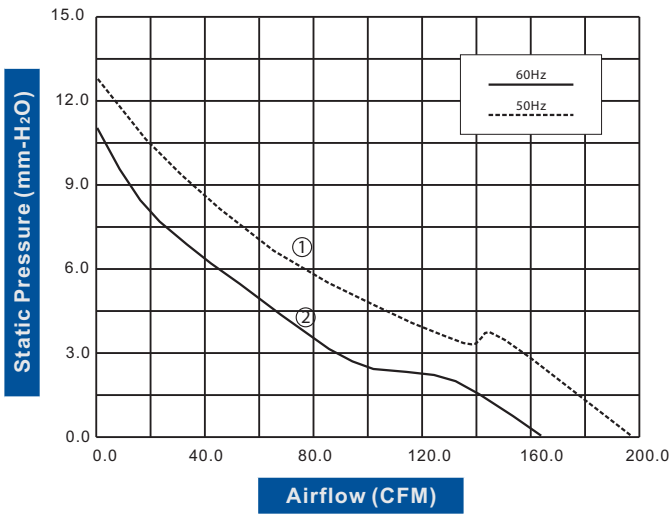
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1738B11T5-96 | 115 | 50/60 | 107.6/97.6 | 8.2/7.2 | 45.3/42.4 | 2,350/2,100 | 310/300 | 27/26 | B,S | ①/② |
| FA1738B22T5-96 | 230 | 50/60 | 124.8/117.7 | 9.0/8.5 | 49.3/47.3 | 2,500/2,400 | 180/170 | 29/27 | B,S | ①/② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice





# AC AXIAL FAN
# 172x150x51mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 970 g **Packing:** 16PCS/CTN

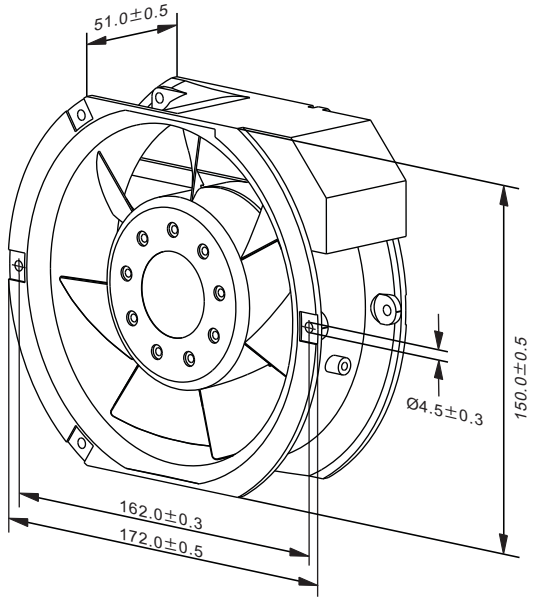
SS

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1751B11T7C-31 | 115 | 50/60 | 253.8/297.4 | 16.2/20.3 | 55.2/60.1 | 2,850/3,300 | 350/400 | 46/50 | B | ①/② |
| FA1751B22T7C-31 | 230 | 50/60 | 253.8/297.4 | 16.2/20.3 | 55.2/60.1 | 2,850/3,300 | 200/220 | 46/50 | B | ①/② |

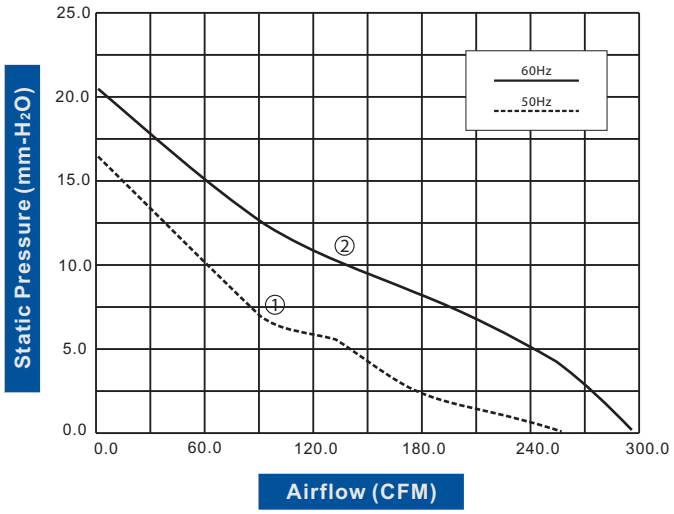
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# ∅170x51mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 875 g **Packing:** 16PCS/CTN

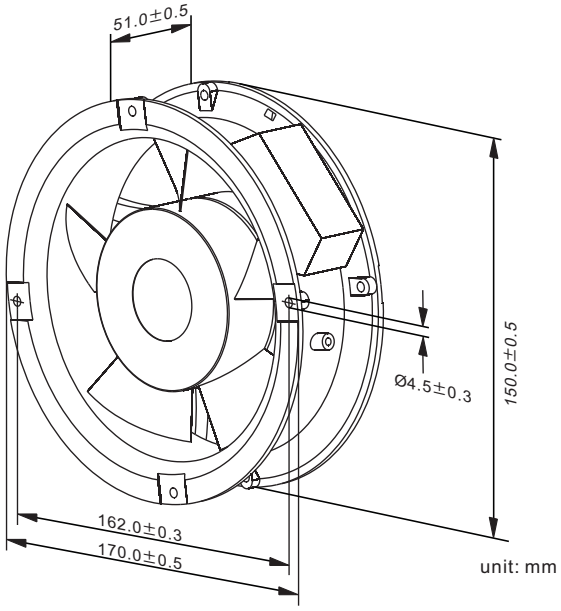
ES IP

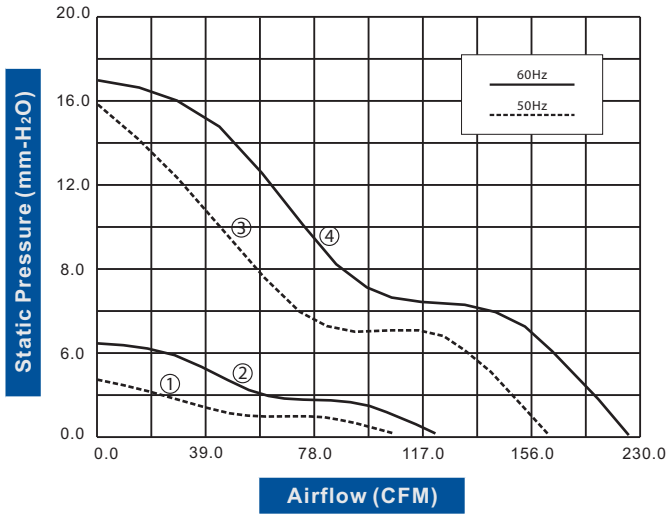
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1751B11T5C-51 | 115 | 50/60 | 100.0/121.0 | 4.6/6.4 | 39.0/44.0 | 1,450/1,750 | 150/150 | 17/16 | B | ①/② |
| FA1751B11T7C-51 | 115 | 50/60 | 195.0/225.0 | 15.5/16.8 | 57.0/61.0 | 2,900/3,300 | 220/280 | 25/31 | B | ③/④ |
| FA1751B22T5C-51 | 230 | 50/60 | 101.0/120.0 | 4.6/6.4 | 39.0/44.0 | 1,450/1,750 | 60/60 | 14/13 | B | ①/② |
| FA1751B22T7C-51 | 230 | 50/60 | 195.0/225.0 | 15.5/16.8 | 57.0/61.0 | 2,900/3,300 | 110/140 | 24/30 | B | ③/④ |

- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice





# AC AXIAL FAN
# 172x151x51mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 875 g **Packing:** 16PCS/CTN

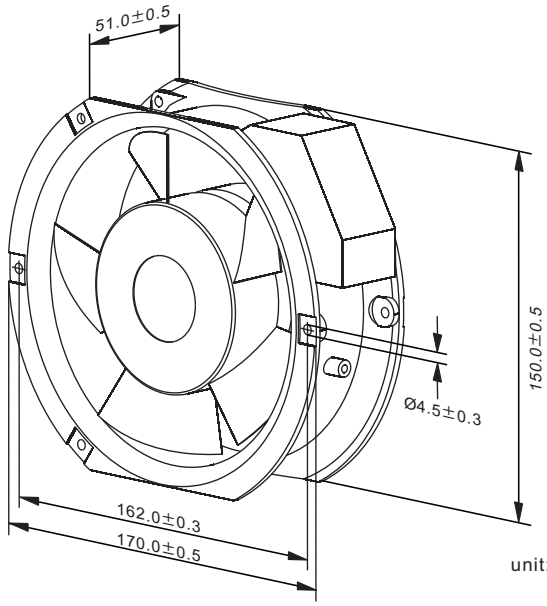
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1751B11T7-52 | 115 | 50/60 | 178.0/210.0 | 14.3/9.4 | 54.0/58.0 | 2,800/3,300 | 760/530 | 47/36 | B | ①/② |
| FA1751B22T7-52 | 230 | 50/60 | 183.0/212.0 | 14.3/9.4 | 54.0/58.0 | 2,800/3,300 | 410/290 | 51/39 | B | ①/② |
| FA1751B11T7C-52 | 115 | 50/60 | 198.0/226.0 | 16.7/16.3 | 57.0/61.0 | 2,900/3,300 | 220/280 | 25/31 | B | ③/④ |
| FA1751B22T7C-52 | 230 | 50/60 | 198.0/230.0 | 16.7/16.3 | 57.0/61.0 | 2,900/3,300 | 110/150 | 25/32 | B | ③/④ |

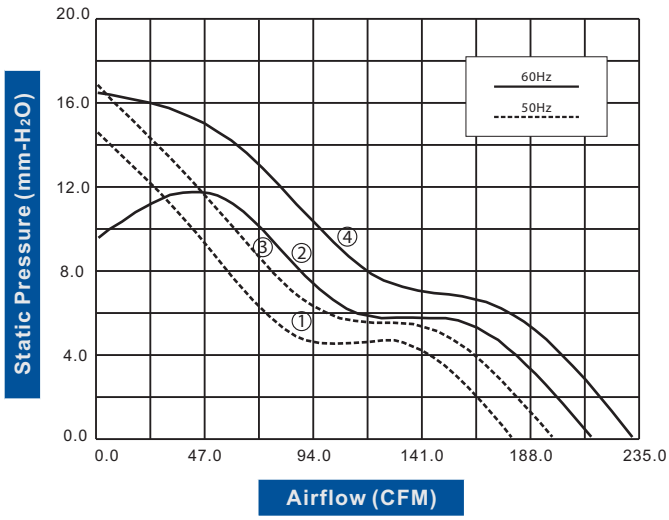
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 172x150x51mm

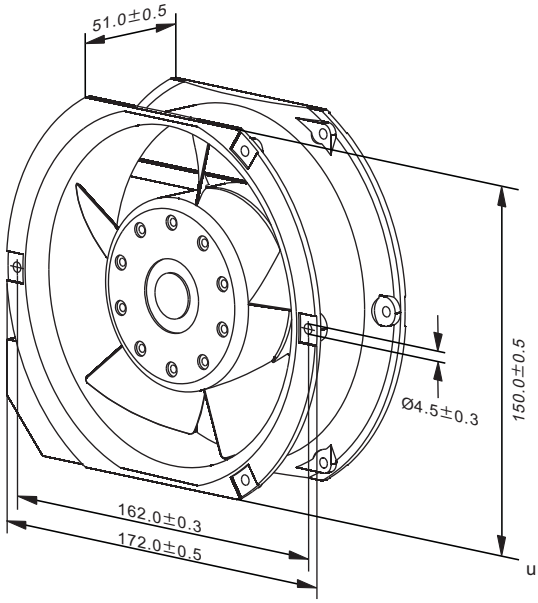
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 880 g **Packing:** 16PCS/CTN

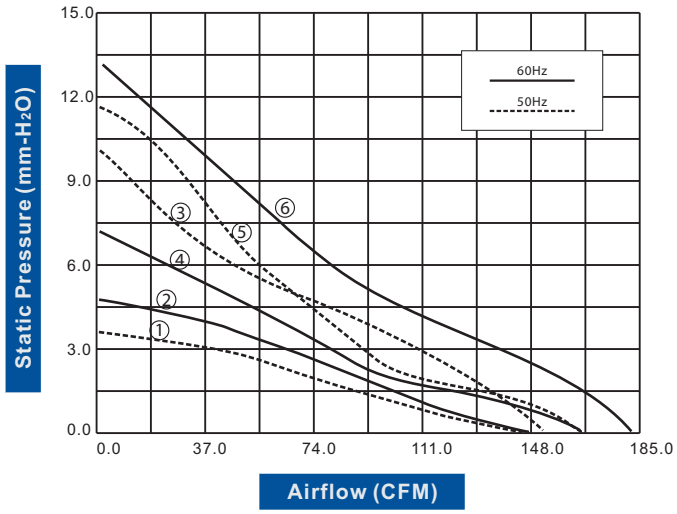
SS

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1751B11T3-61 | 115 | 50/60 | 139.1/143.1 | 3.5/4.7 | 44.3/46.3 | 2,200/2,400 | 400/400 | 20/20 | B | ①/② |
| FA1751B11T5-61 | 115 | 50/60 | 150.2/162.4 | 10.0/7.1 | 48.3/50.2 | 2,500/2,700 | 500/500 | 28/27 | B | ③/④ |
| FA1751B11T7-61 | 115 | 50/60 | 162.4/182.7 | 11.5/13.2 | 50.2/54.2 | 2,700/3,000 | 600/600 | 47/41 | B | ⑤/⑥ |
| FA1751B22T3-61 | 230 | 50/60 | 139.1/143.1 | 3.5/4.7 | 44.3/46.3 | 2,200/2,400 | 200/200 | 20/20 | B | ①/② |
| FA1751B22T5-61 | 230 | 50/60 | 150.2/162.4 | 10.0/7.1 | 48.3/50.2 | 2,500/2,700 | 300/300 | 28/27 | B | ③/④ |
| FA1751B22T7-61 | 230 | 50/60 | 162.4/182.7 | 11.5/13.2 | 50.2/54.2 | 2,700/3,000 | 400/400 | 47/41 | B | ⑤/⑥ |

- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice



# AC AXIAL FAN
# 172x150x51mm

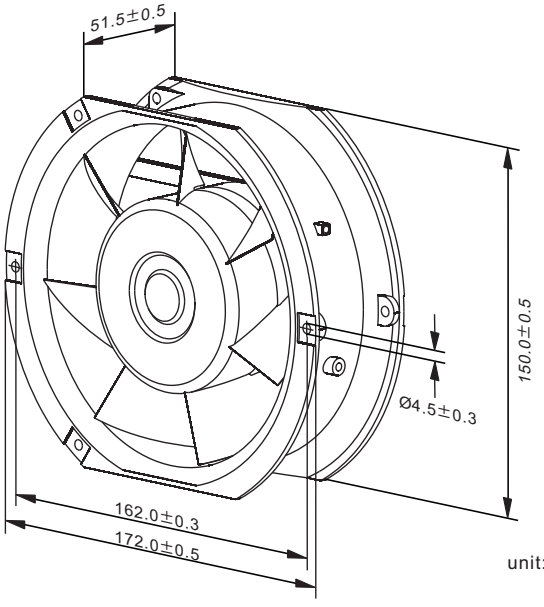
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 970 g **Packing:** 16PCS/CTN

SS IP

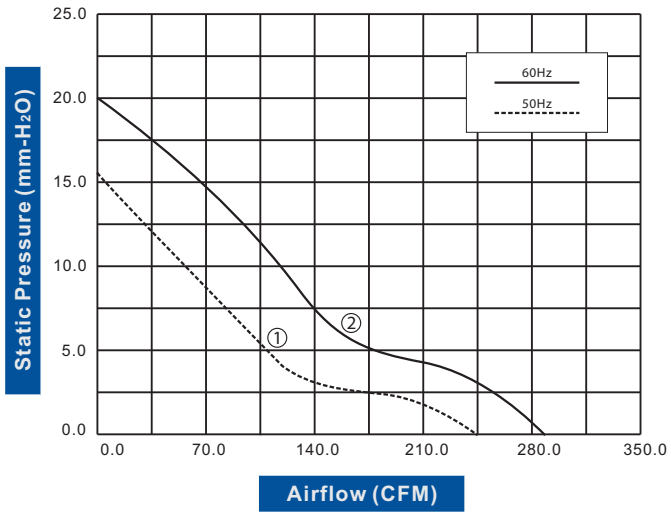
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1751B11W7-78 | 115 | 50/60 | 245.0/290.0 | 16.0/20.0 | 53.0/57.0 | 2,800/3,300 | 350/400 | 46/50 | B | ①/② |
| FA1751B22W7-78 | 230 | 50/60 | 245.0/290.0 | 16.0/20.0 | 53.0/57.0 | 2,800/3,300 | 200/220 | 46/50 | B | ①/② |

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 172x150x51mm

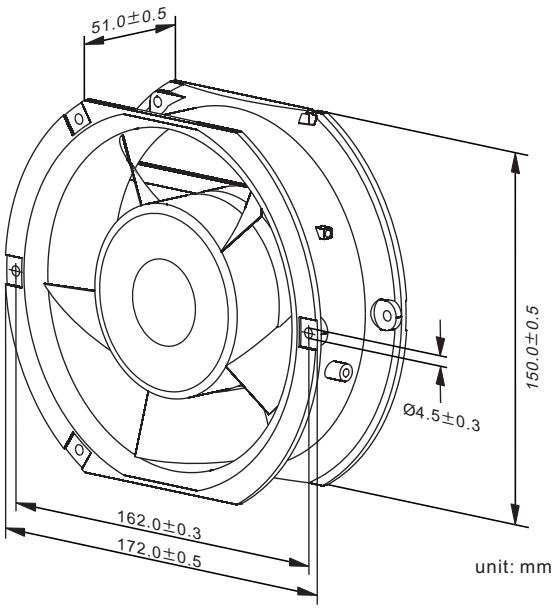
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 920 g **Packing:** 16PCS/CTN

SS IP

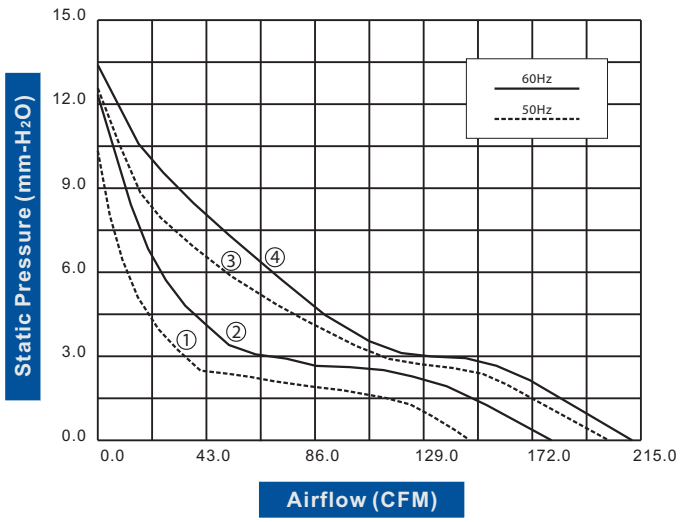
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1751B11T5-96 | 115 | 50/60 | 141.1/176.6 | 10.3/12.4 | 42.4/47.3 | 2,350/2,550 | 400/380 | 28/27 | B,S | ①/② |
| FA1751B11T7-96 | 115 | 50/60 | 198.9/211.1 | 12.6/13.4 | 47.3/54.2 | 2,500/2,700 | 500/440 | 39/36 | B,S | ③/④ |
| FA1751B22T5-96 | 230 | 50/60 | 141.1/176.6 | 10.3/12.4 | 42.4/47.3 | 2,350/2,550 | 180/170 | 25/24 | B,S | ①/② |
| FA1751B22T7-96 | 230 | 50/60 | 198.9/211.1 | 12.6/13.4 | 47.3/54.2 | 2,500/2,700 | 240/220 | 37/35 | B,S | ③/④ |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 172x150x51mm

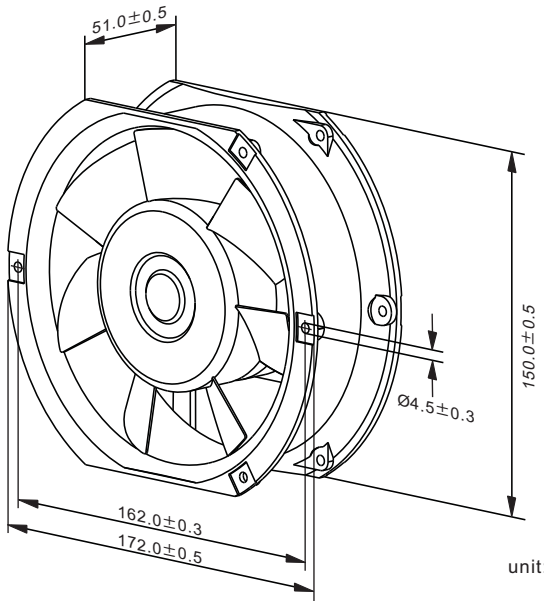
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 920 g **Packing:** 16PCS/CTN

SS IP

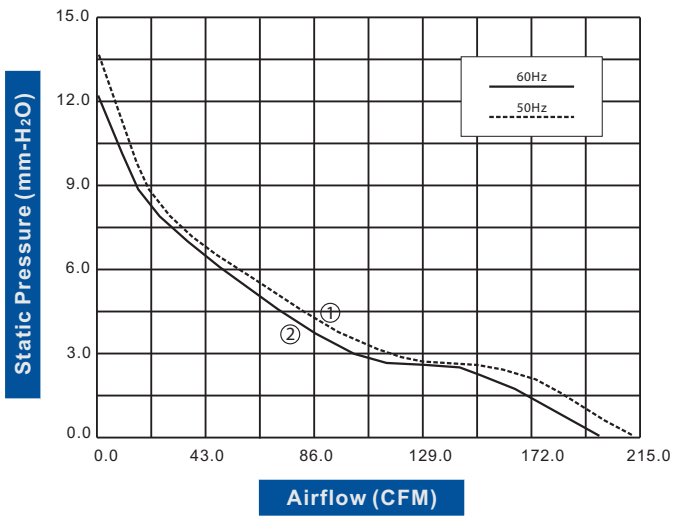
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1751B11T7-97 | 115 | 50/60 | 211.1/198.9 | 13.7/12.1 | 52.2/60.1 | 2,500/2,800 | 660/580 | 51/47 | B,S | ①/② |
| FA1751B22T7-97 | 230 | 50/60 | 211.1/198.9 | 13.7/12.1 | 52.2/60.1 | 2,600/2,000 | 250/230 | 38/36 | B,S | ①/② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 172x150x55mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 870 g **Packing:** 15PCS/CTN

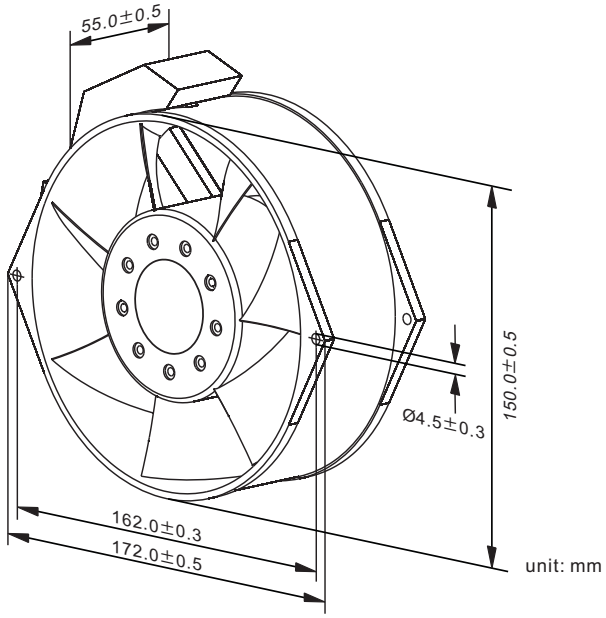
SS

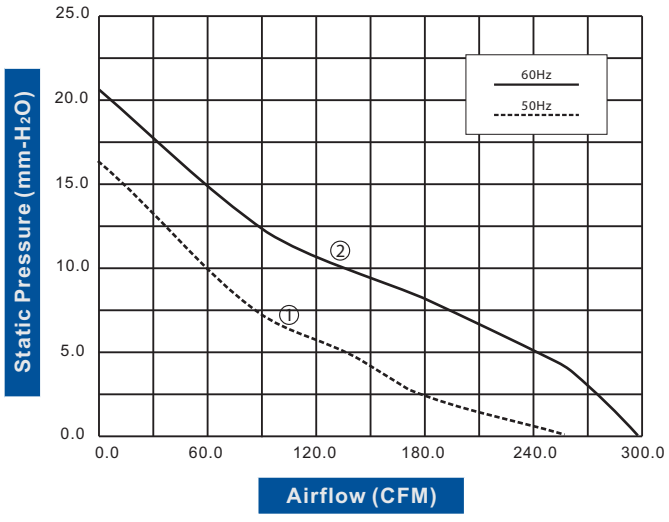
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1755B11T7C-31 | 115 | 50/60 | 253.8/297.4 | 16.2/20.3 | 55.2/60.1 | 2,850/3,300 | 350/400 | 46/50 | B | ①/② |
| FA1755B22T7C-31 | 230 | 50/60 | 253.8/297.4 | 16.2/20.3 | 55.2/60.1 | 2,850/3,300 | 200/220 | 46/50 | B | ①/② |

- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice





# AC AXIAL FAN 170x150x55mm

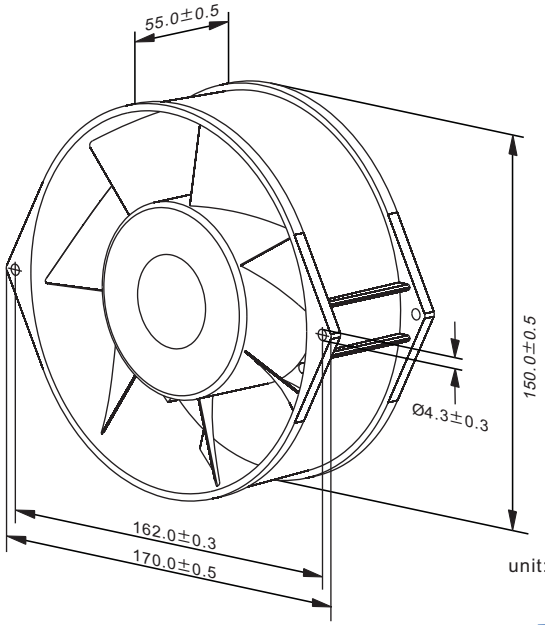
Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1000 g **Packing:** 20PCS/CTN

ES IP

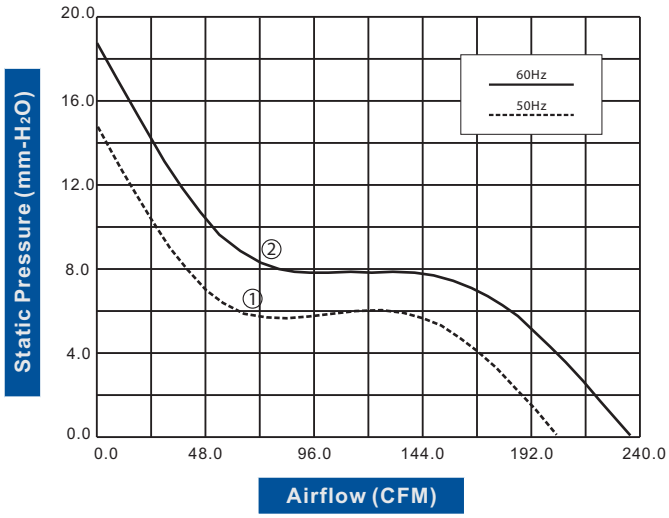
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1755B11W7C-51 | 115 | 50/60 | 204.0/235.0 | 14.7/18.9 | 57.0/61.0 | 2,900/3,400 | 340/380 | 38/44 | B | ①/② |
| FA1755B22W7C-51 | 230 | 50/60 | 202.0/239.0 | 14.7/18.9 | 57.0/61.0 | 2,900/3,400 | 170/190 | 37/43 | B | ①/② |

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# 180x180x65mm

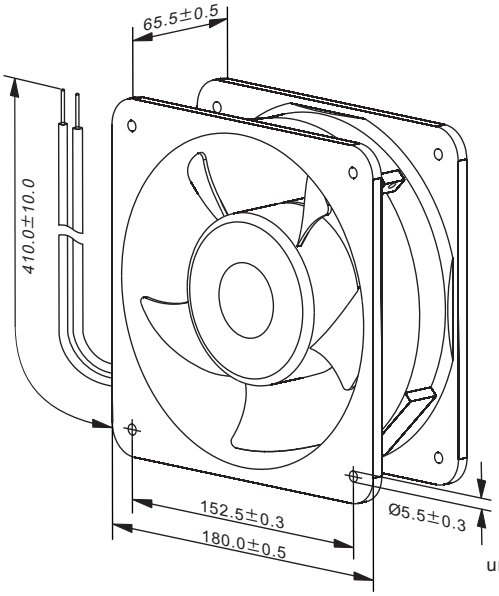
Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1600 g **Packing:** 12PCS/CTN

ES IP

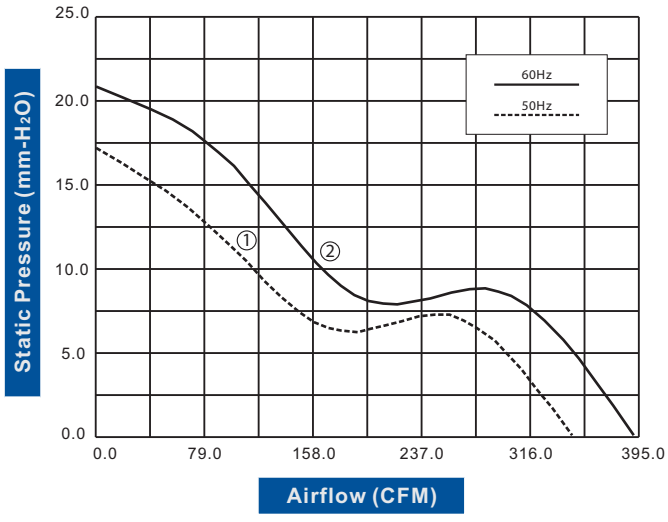
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1865B11T7C-51 | 115 | 50/60 | 342.0/365.0 | 17.0/20.6 | 58.0/61.0 | 2,800/3,150 | 490/660 | 56/74 | B | ①/② |
| FA1865B22T7C-51 | 230 | 50/60 | 352.0/394.0 | 17.0/20.6 | 58.0/61.0 | 2,900/3,300 | 260/330 | 58/76 | B | ①/② |

- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# 180x180x90mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1600 g **Packing:** 8PCS/CTN

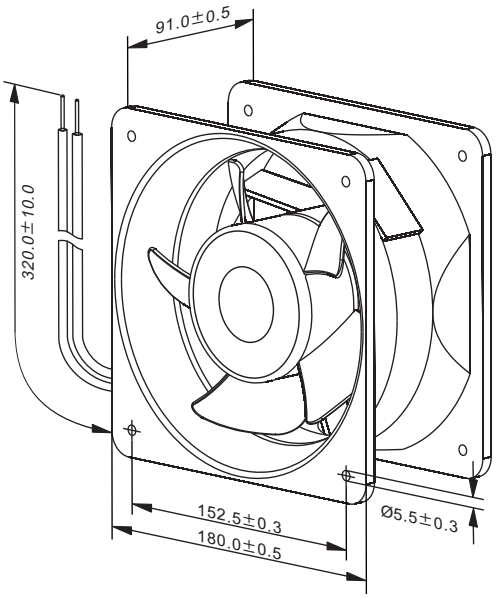
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA1890B11T7C-51 | 115 | 50/60 | 376.0/409.0 | 16.3/17.1 | 58.0/61.0 | 2,800/3,000 | 470/660 | 55/77 | B | ①/② |
| FA1890B22T7C-51 | 230 | 50/60 | 378.0/434.0 | 16.3/17.1 | 58.0/62.0 | 2,800/3,200 | 250/330 | 58/76 | B | ①/② |

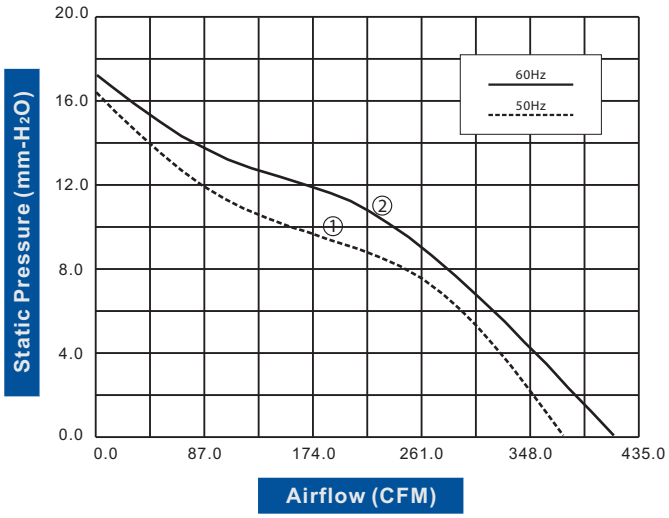
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN 200x200x60mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 1700 g **Packing:** 8PCS/CTN

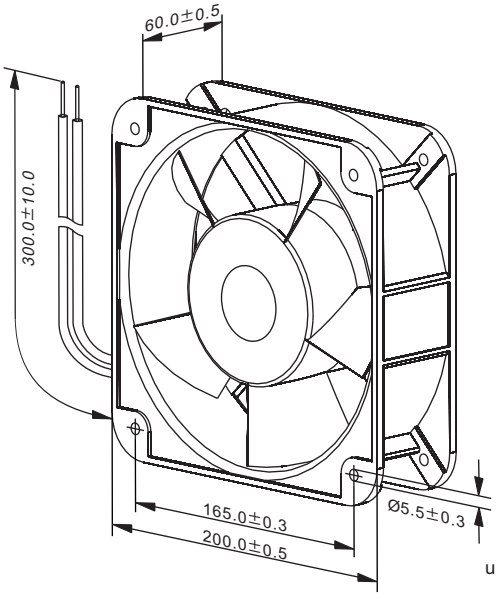
SS IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA2060B11W7-96 | 115 | 50/60 | 426.3/406.0 | 23.7/22.2 | 64.0/69.0 | 2,500/2,300 | 760/860 | 65/68 | B,S | ①/② |
| FA2060B22W7-96 | 230 | 50/60 | 426.3/406.0 | 23.7/22.2 | 64.0/69.0 | 2,500/2,300 | 380/430 | 63/70 | B,S | ①/② |

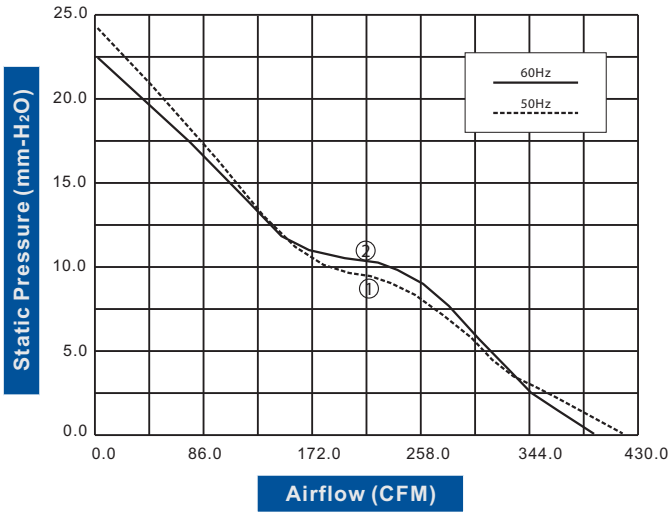
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# ∅ 222x60mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1540 g **Packing:** 8PCS/CTN

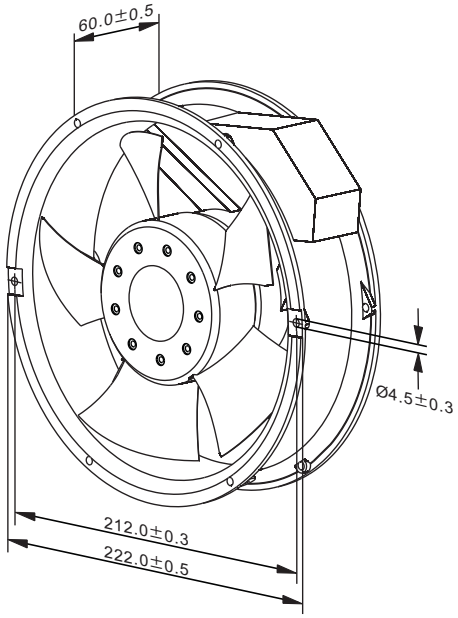
SS

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA2260B11T7C-31 | 115 | 50/60 | 436.5/492.3 | 24.4/18.3 | 58.1/61.1 | 2,800/3,200 | 420/460 | 50/56 | B | ①/② |
| FA2260B22T7C-31 | 230 | 50/60 | 436.5/492.3 | 24.4/18.3 | 58.1/61.1 | 2,800/3,200 | 250/260 | 50/56 | B | ①/② |

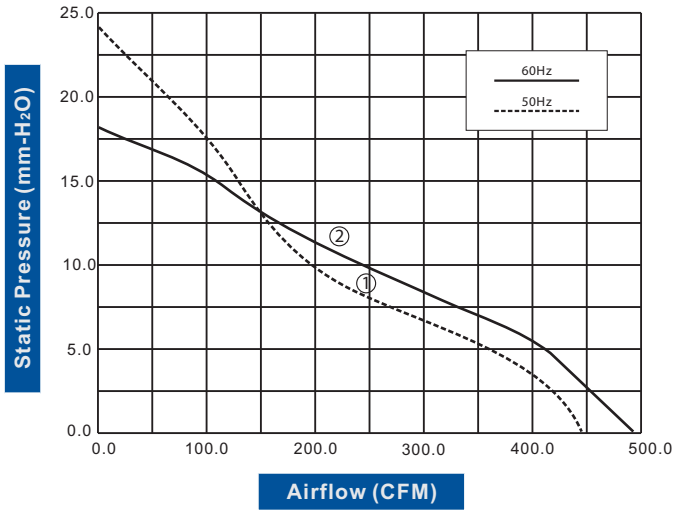
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# ∅ 220x60mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 1700 g **Packing:** 8PCS/CTN

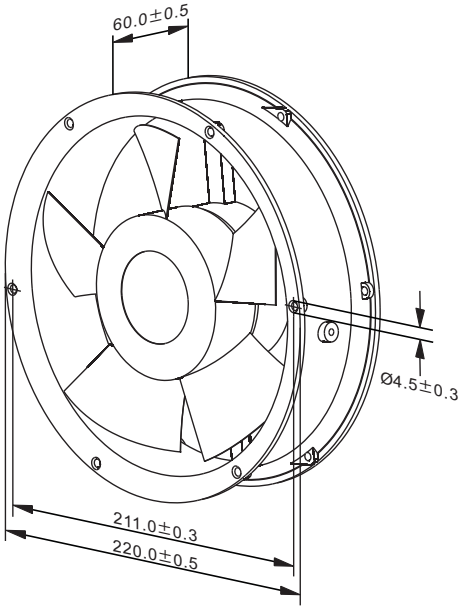
SS IP

| Model Number | Voltage (VAC) | Frequency (Hz) | AirFlow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA2260B11T7-96 | 115 | 50/60 | 426.3/315.7 | 23.7/17.5 | 64.0/54.2 | 2,500/1,850 | 720/850 | 56/63 | B,S | ①/② |
| FA2260B22T7-96 | 230 | 50/60 | 426.3/315.7 | 23.7/17.5 | 64.0/54.2 | 2,500/1,850 | 350/420 | 56/63 | B,S | ①/② |

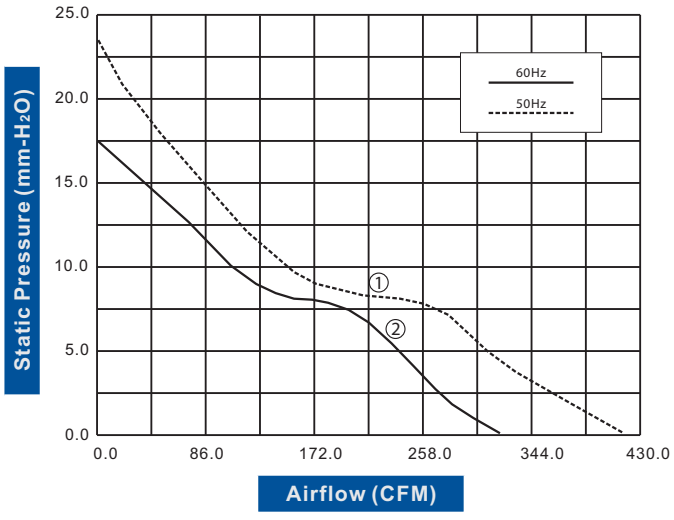
- For "Sleeve" bearing version, change the "B" in the model number to "S".
- For "Wire Lead" version, change the "T" in the model number to "W".

Specificationare subject to change without notice






unit: mm



# AC AXIAL FAN
# ∅ 254x89mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1600 g **Packing:** 10PCS/CTN

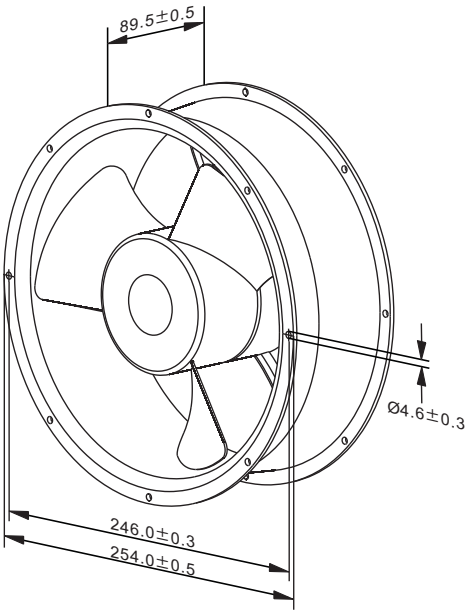
ES IP

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA2589B11T7C-51 | 115 | 50/60 | 443.0/525.0 | 8.6/9.8 | 49.0/53.0 | 1,400/1,700 | 350/360 | 38/40 | B | ①/② |
| FA2589B22T7C-51 | 230 | 50/60 | 445.0/529.0 | 8.6/9.8 | 49.0/53.0 | 1,400/1,700 | 190/180 | 39/40 | B | ①/② |

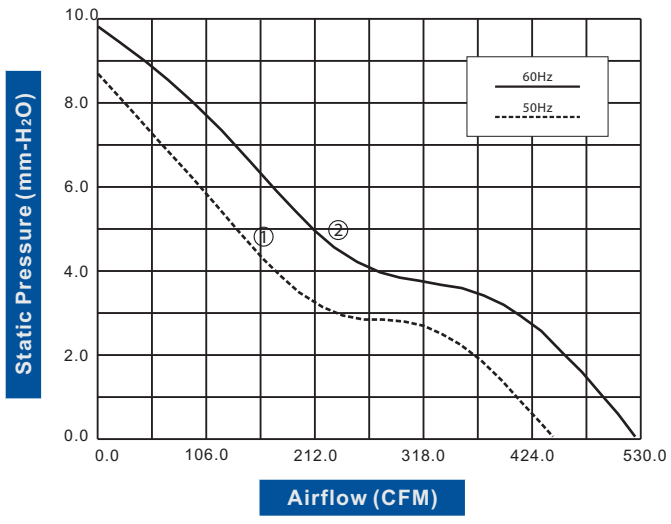
- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice






unit: mm



# AC AXIAL FAN
# ∅ 254x89mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1600 g **Packing:** 10PCS/CTN

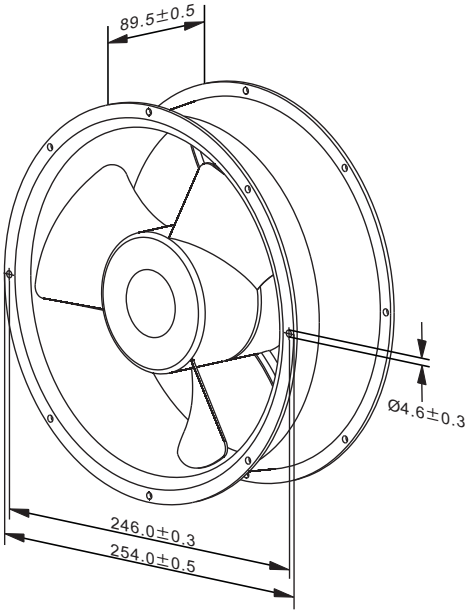
ES IP

● **High Airflow**

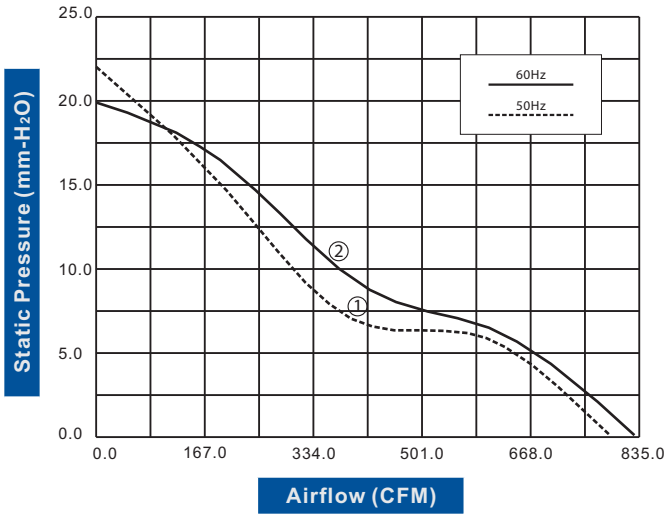
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA2589B11T7C-52 | 115 | 50/60 | 780.0/834.0 | 21.8/19.8 | 68.0/70.0 | 2,550/2,700 | 950/1150 | 97/129 | B | ①/② |
| FA2589B22T7C-52 | 230 | 50/60 | 785.0/835.0 | 21.8/19.8 | 68.0/70.0 | 2,600/2,700 | 550/600 | 98/130 | B | ①/② |

- For "Wire Lead" version, change the "T" in the model number to "W".

Specifications are subject to change without notice




unit: mm



# AC AXIAL FAN
# ∅ 254x89mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Injection Molded of Flame Retardant Polycarbonate, Black
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1780 g Packing: 10PCS/CTN

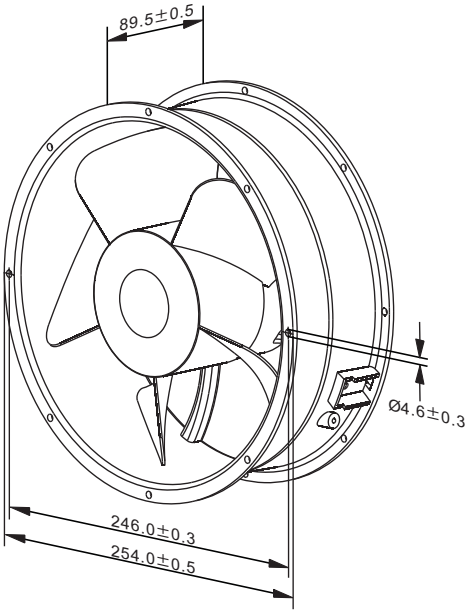
ES IP

● **High Airflow**

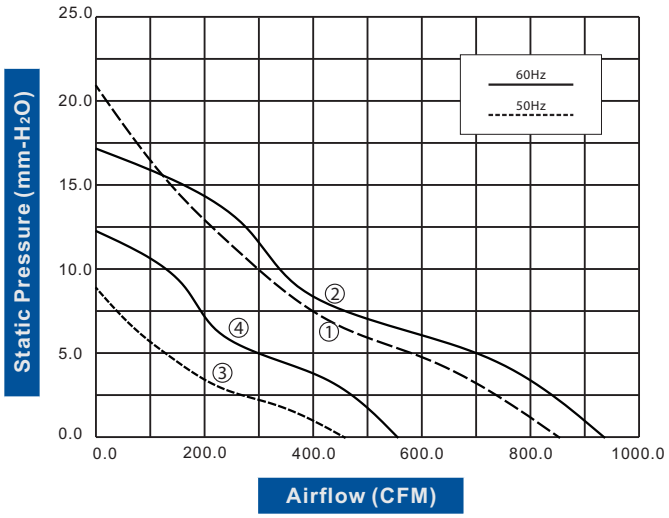
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FA2589B11W7-78 | 115 | 50/60 | 850.0/930.0 | 21.0/17.0 | 78.0/84.0 | 2,700/3,000 | 500/600 | 60/75 | B | ①/② |
| FA2589B11W5-78 | 115 | 50/60 | 460.0/550.0 | 9.0/12.0 | 52.0/55.0 | 1,400/1,600 | 300/400 | 35/40 | B | ③/④ |
| FA2589B22W7-78 | 230 | 50/60 | 850.0/930.0 | 21.0/17.0 | 78.0/84.0 | 2,700/3,000 | 250/300 | 50/65 | B | ①/② |
| FA2589B22W5-78 | 230 | 50/60 | 460.0/550.0 | 9.0/12.0 | 52.0/55.0 | 1,400/1,600 | 250/300 | 35/40 | B | ③/④ |

Specifications are subject to change without notice






unit: mm



# AC BLOWER
# 125x126x40mm

Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 668 g **Packing:** 40PCS/CTN

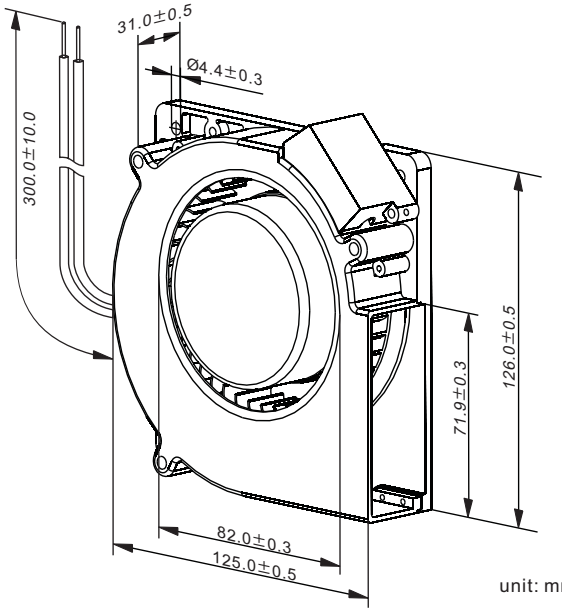
SS

| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBA1231B11W5C-31 | 115 | 50/60 | 40.6/43.6 | 16.0/22.9 | 54.2/56.1 | 2,750/3,050 | 270/290 | 26/27 | B,S | ①/② |
| FBA1231B22W5C-31 | 230 | 50/60 | 40.6/43.6 | 16.0/22.9 | 54.2/56.1 | 2,750/3,050 | 130/130 | 26/27 | B,S | ①/② |

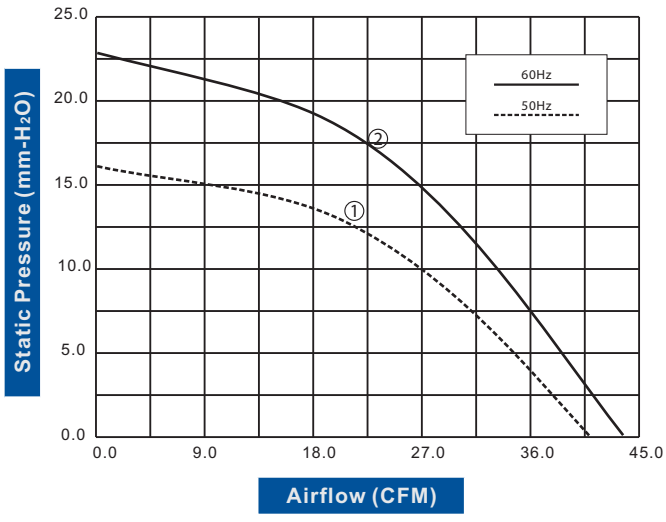
- For "Sleeve" bearing version, change the "B" in the model number to "S".

Specifications are subject to change without notice






unit: mm



# AC BLOWER
# 121x121x37mm

**Spiral Housing:** Fiberglass-Reinforced Polycarbonate
**Housing Base: Galvanized Steel Plate**
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Impedance Protected
Weight: 625 g **Packing: 20PCS/CTN**

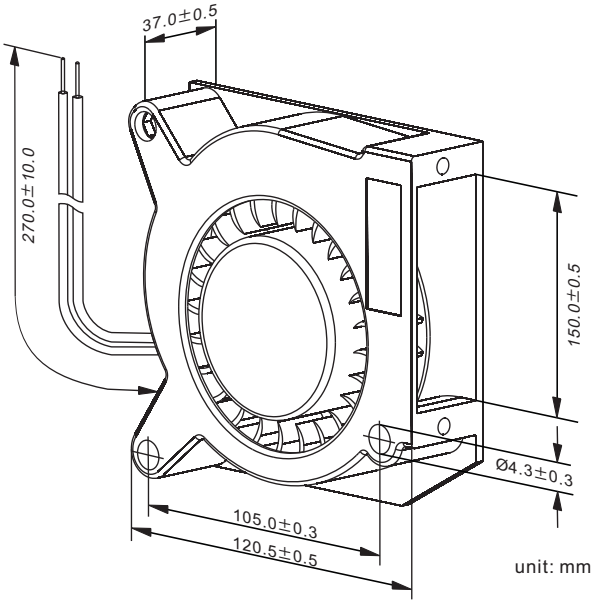
ES IP

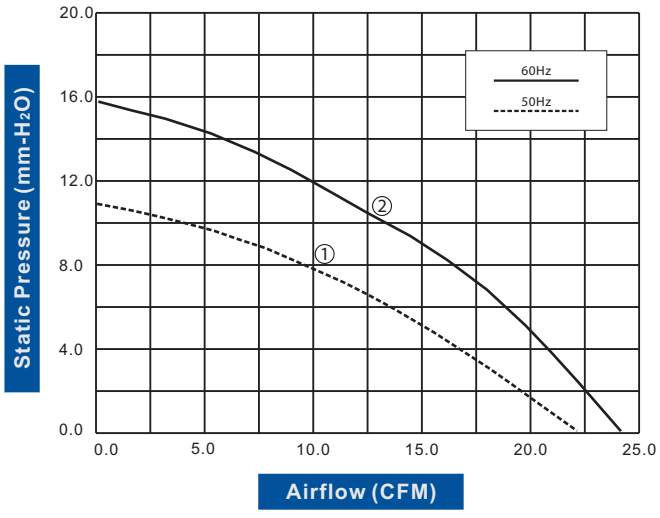
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBA1237B11W5-51 | 115 | 50/60 | 22.0/23.0 | 10.7/15.7 | 53.0/54.0 | 2,500/2,500 | 270/240 | 21/19 | B,S | ①/② |
| FBA1237B22W5-51 | 230 | 50/60 | 22.0/23.0 | 10.7/15.7 | 53.0/54.0 | 2,500/2,500 | 140/120 | 21/20 | B,S | ①/② |

- For "Sleeve" bearing version, change the "B" in the model number to "S".

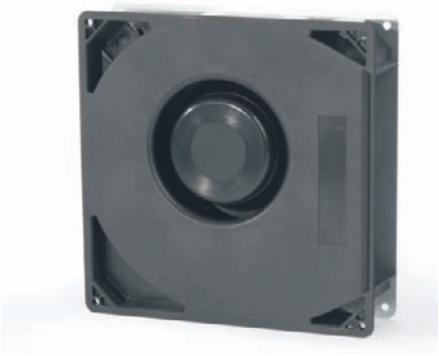
Specifications are subject to change without notice





# AC BLOWER
# 220x220x56mm



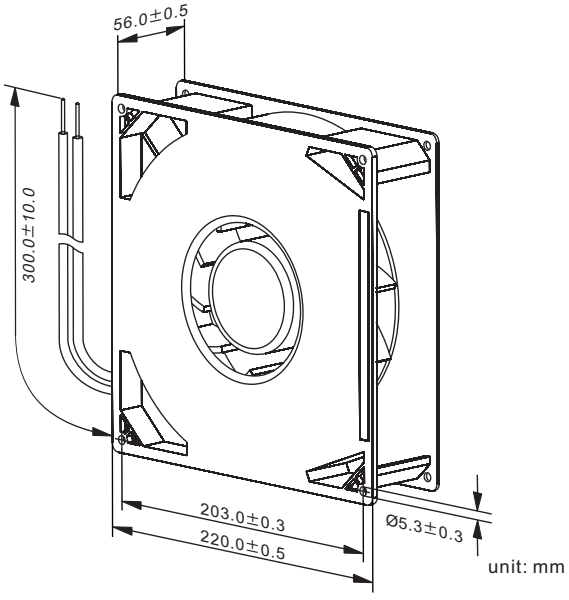
Spiral Housing: Fiberglass-Reinforced Polycarbonate
Housing Base: Galvanized Steel Plate
Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 1500VAC for one minutue
Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)
Motor Protection: Thermal Protected
Weight: 1750 g Packing: 8PCS/CTN

ES IP

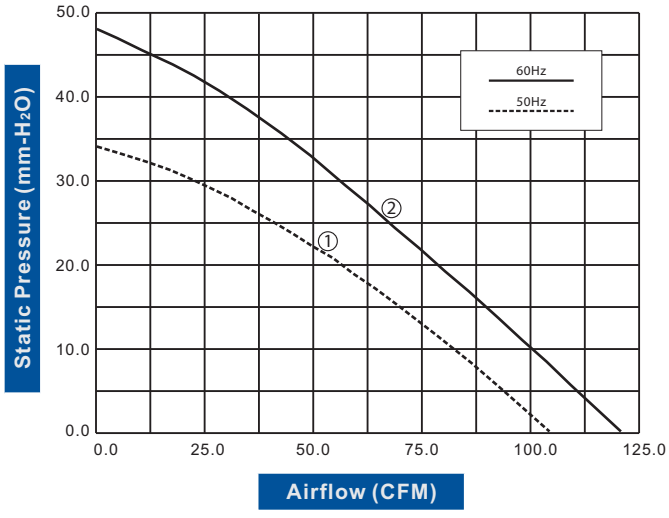
| Model Number | Voltage (VAC) | Frequency (Hz) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|
| FBA2256B11W7C-51 | 115 | 50/60 | 103.0/117.0 | 33.8/47.8 | 64.0/66.0 | 2,900/3,300 | 340/420 | 37/45 | B | ①/② |
| FBA2256B22W7C-51 | 230 | 50/60 | 104.0/120.0 | 33.8/47.8 | 64.0/66.0 | 2,900/3,400 | 160/200 | 36/44 | B | ①/② |

Specifications are subject to change without notice






unit: mm



# AC-DC AXIAL FAN
# 80x80x38mm
## (EC Fan)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~85℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 155 g Packing: 60PCS/CTN

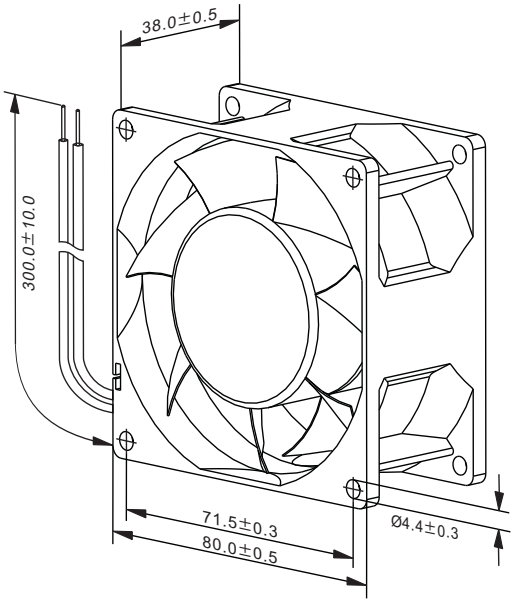
CE

SS IP

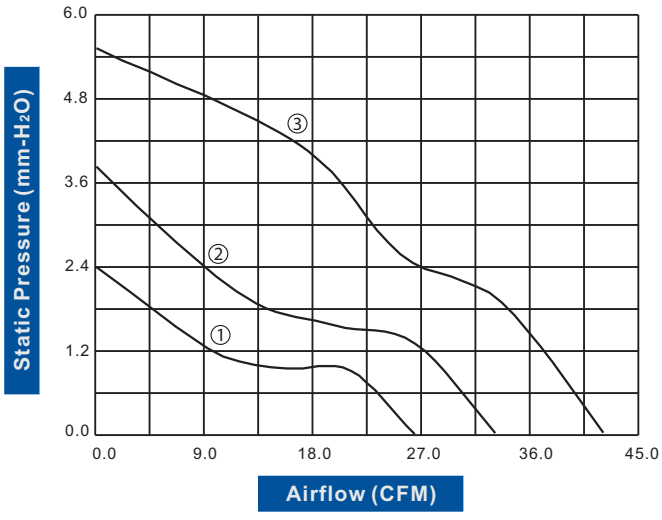
- **Energy Efficiency EC Fan**
- **Electronically Commutated(EC) Motor Technology**

| Model Number | Voltage (VAC) | Frequency (Hz) | Oper. Volt. (VAC) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FDA8038B11W3-61 | 115 | 60 | 85~132 | 26.5 | 2.4 | 25.6 | 2,000 | 30 | 1.0 | B | ① |
| FDA8038B11W5-61 | 115 | 60 | 85~132 | 33.8 | 3.8 | 31.5 | 2,500 | 40 | 2.0 | B | ② |
| FDA8038B11W7-61 | 115 | 60 | 85~132 | 40.7 | 5.4 | 36.4 | 3,000 | 60 | 5.0 | B | ③ |
| FDA8038B22W3-61 | 230 | 50 | 140~264 | 26.5 | 2.4 | 25.6 | 2,000 | 20 | 1.0 | B | ① |
| FDA8038B22W5-61 | 230 | 50 | 140~264 | 33.8 | 3.8 | 31.5 | 2,500 | 30 | 2.0 | B | ② |
| FDA8038B22W7-61 | 230 | 50 | 140~264 | 40.7 | 5.4 | 36.4 | 3,000 | 50 | 5.0 | B | ③ |

Specifications are subject to change without notice




unit: mm



# AC-DC AXIAL FAN 120x120x38mm (EC Fan)

Housing/Blade: Thermoplastic PBT, UL 94V-0
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~85℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 270 g Packing: 40PCS/CTN

CE TÜV Rheinland

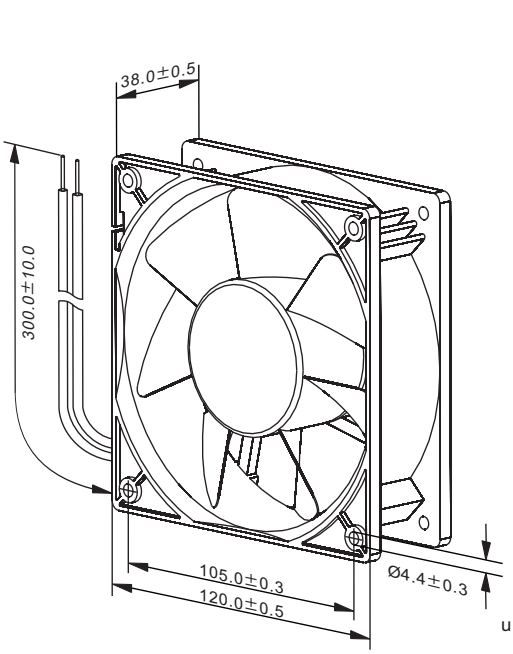
SS IP

- **Energy Efficiency EC Fan**
- **Electronically Commutated(EC) Motor Technology**

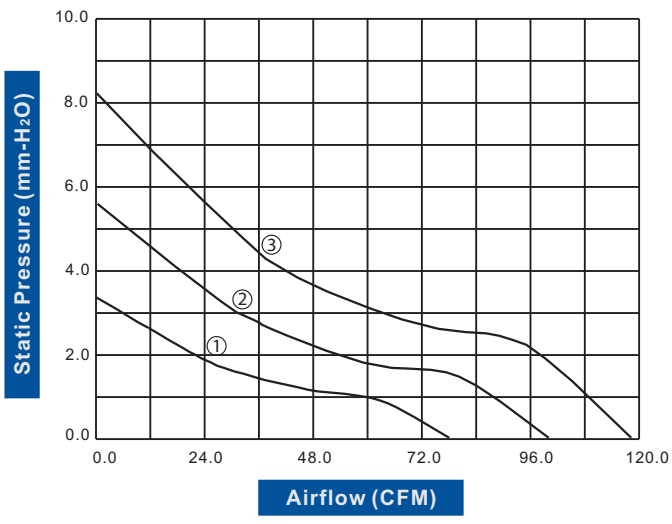
| Model Number | | Voltage (VAC) | Frequency (Hz) | Oper. Volt. (VAC) | Air Flow (CFM) | Stat.Pres. (mm-$H_2O$) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FDA1238B22W3-61 | | 230 | 50 | 140~264 | 78.6 | 3.3 | 33.5 | 2,000 | 30 | 2.5 | B | ① |
| FDA1238B22W5-61 | | 230 | 50 | 140~264 | 100.7 | 5.7 | 39.4 | 2,500 | 40 | 4.0 | B | ② |
| FDA1238B22W7-61 | | 230 | 50 | 140~264 | 118.0 | 8.1 | 44.3 | 3,000 | 50 | 6.0 | B | ③ |
| FDA1238BDLW3-61 | ++ | 115/230 | 50/60 | 85~264 | 78.6 | 3.3 | 33.5 | 2,000 | 80 | 4.0 | B | ① |
| FDA1238BDLW5-61 | ++ | 115/230 | 50/60 | 85~264 | 100.7 | 5.7 | 39.4 | 2,500 | 100 | 6.0 | B | ② |
| FDA1238BDLW7-61 | ++ | 115/230 | 50/60 | 85~264 | 118.0 | 8.1 | 44.3 | 3,000 | 120 | 8.0 | B | ③ |

- Dual voltage models marked with "++".

Specifications are subject to change without notice




unit: mm



# AC-DC AXIAL FAN
# 172x150x51mm
## (EC Fan)

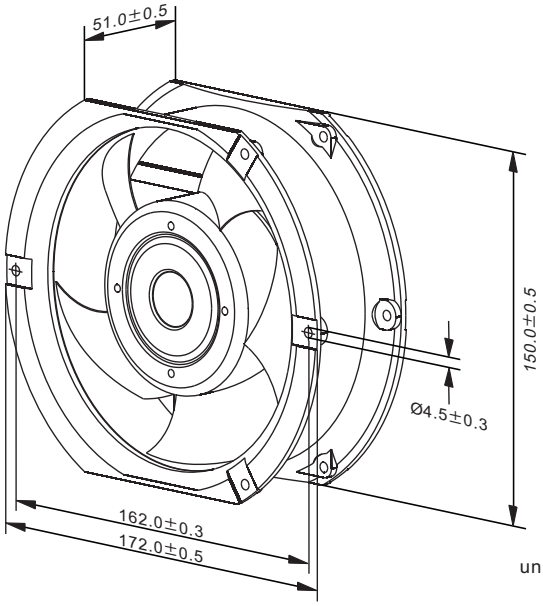
Housing: Die-Cast Aluminum, Painted Black
Blade: Thermoplastic PBT, UL 94V-2
Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame
Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame
Operation Temperature: -10℃~70℃(Humidity 35%-85%RH)
Storage Temperature: -40℃~85℃(Humidity 35%-85%RH)
Lead Wire: UL Type #26 AWG
Weight: 646 g Packing: 16PCS/CTN

SS IP

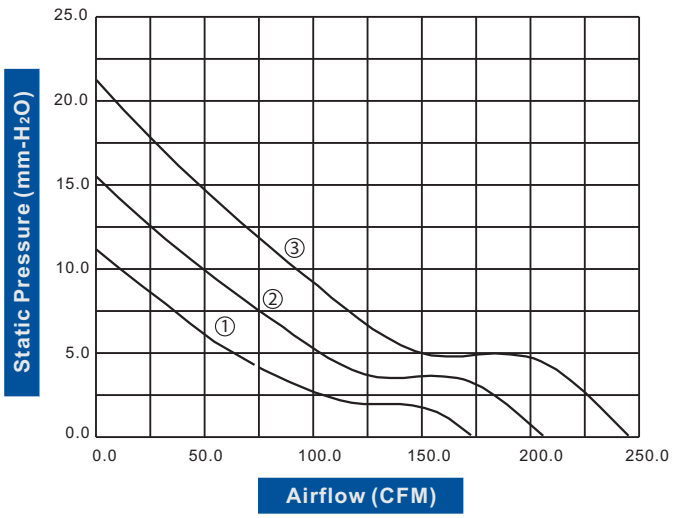
- **Energy Efficiency EC Fan**
- **Electronically Commutated(EC) Motor Technology**

| Model Number | Voltage (VAC) | Frequency (Hz) | Oper. Volt. (VAC) | Air Flow (CFM) | Stat.Pres. (mm-H2O) | Noise (dBA) | Speed (RPM) | Current (mA) | Power (W) | Available Bearing | Curves |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FDA1751BDLW3-61 | 115/230 | 50/60 | 90~264 | 172.6 | 10.8 | 48.3 | 2,500 | 200 | 12.0 | B | ① |
| FDA1751BDLW5-61 | 115/230 | 50/60 | 90~264 | 208.1 | 15.2 | 53.2 | 3,000 | 300 | 20.0 | B | ② |
| FDA1751BDLW7-61 | 115/230 | 50/60 | 90~264 | 244.6 | 21.2 | 58.1 | 3,500 | 400 | 30.0 | B | ③ |

Specifications are subject to change without notice



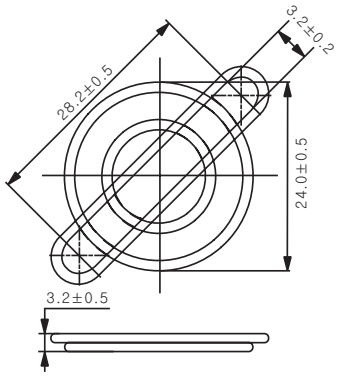

unit: mm



## General Application :

The **FGW** series wire form fan guards are designed for tubeaxial fans in 40mm, 50mm, 60mm, 70mm, 80mm, 92mm, 120mm, 172mm, 220mm, 254mm size and other custom designs.

### FGW-025A-1




unit: mm

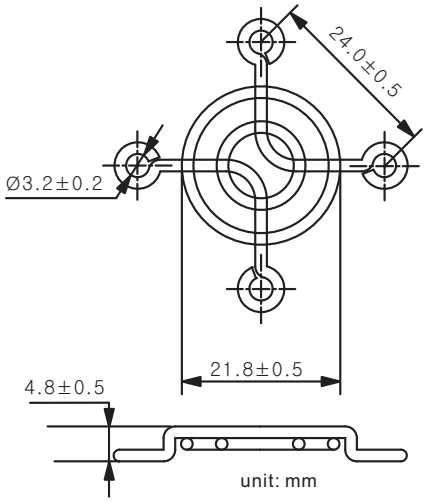
**Fits for Fan Sizes :**

25x25x10mm ; 25x25x15mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bbright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.6±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-030A-1




unit: mm

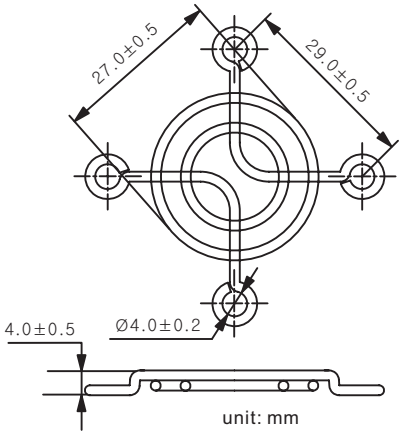
**Fits for Fan Sizes :**

30x30x06mm ; 30x30x10mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.6±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-035A-1




unit: mm

**Fits for Fan Size :**

35x35x10mm

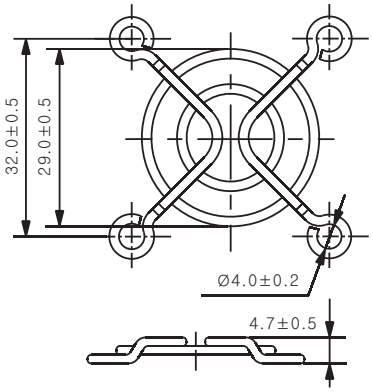
**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.6±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

## General Application :

The **FGW** series wire form fan guards are designed for tubeaxial fans in 40mm, 50mm, 60mm, 70mm, 80mm, 92mm, 120mm, 172mm, 220mm, 254mm size and other custom designs.

### FGW-040A-1




unit: mm

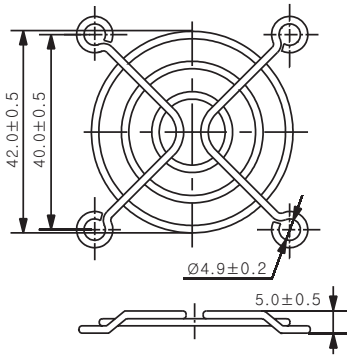
**Fits for Fan Sizes :**

40x40x07mm ; 40x40x10mm
40x40x15mm ; 40x40x20mm
40x40x28mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.6±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-050A-1




unit: mm

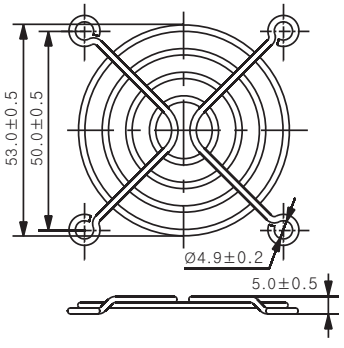
**Fits for Fan Sizes :**

50x50x10mm ; 50x50x15mm
50x50x20mm ; 50x50x25mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.6±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-060A-1




unit: mm

**Fits for Fan Sizes :**

60x60x10mm ; 60x60x15mm
60x60x20mm ; 60x60x25mm
60x60x38mm

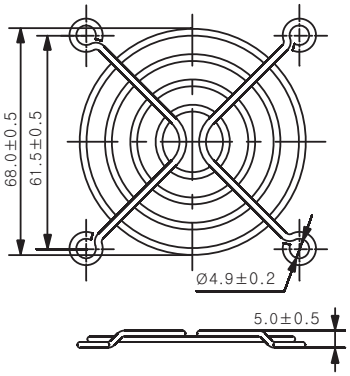
**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.6±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

## General Application :

The **FGW** series wire form fan guards are designed for tubeaxial fans in 40mm, 50mm, 60mm, 70mm, 80mm, 92mm, 120mm, 172mm, 220mm, 254mm size and other custom designs.

### FGW-070A-1




unit: mm

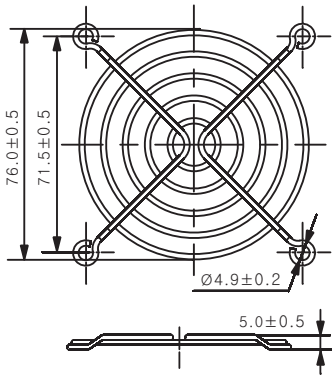
**Fits for Fan Sizes :**

70x70x10mm ; 70x70x15mm
70x70x20mm ; 70x70x25mm
70x70x38mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.6±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-080A-1




unit: mm

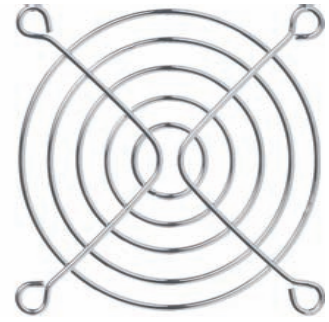
**Fits for Fan Sizes :**

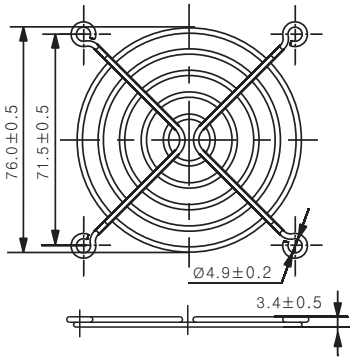
80x80x10mm ; 80x80x15mm
80x80x20mm ; 80x80x25mm
80x80x32mm ; 80x80x38mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.8±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-080B-1






unit: mm

**Fits for Fan Sizes :**

80x80x10mm ; 80x80x15mm
80x80x20mm ; 80x80x25mm
80x80x32mm ; 80x80x38mm

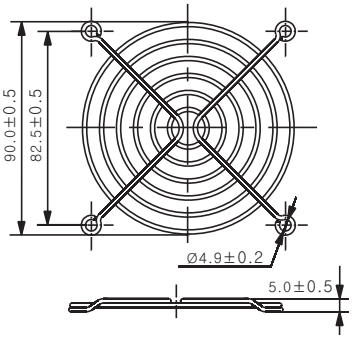
**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.8±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

## General Application:

The **FGW** series wire form fan guards are designed for tubeaxial fans in 40mm, 50mm, 60mm, 70mm, 80mm, 92mm, 120mm, 172mm, 220mm, 254mm size and other custom designs.

### FGW-090A-1




unit: mm

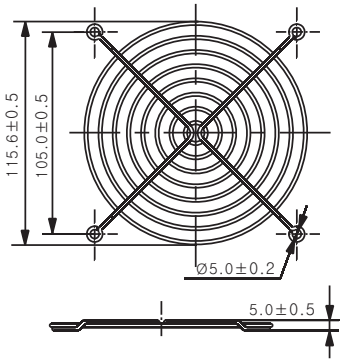
**Fits for Fan Sizes:**

92x92x25mm; 92x92x32mm
92x92x38mm

**Notes:**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.6±0.1mm.
  (2) Ribs are ∅ 1.8±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-120A-1




unit: mm

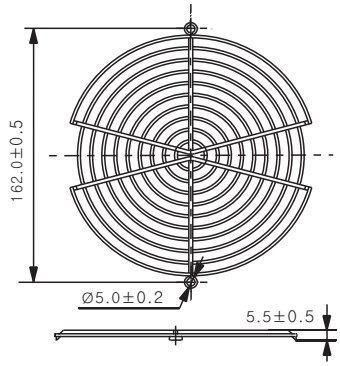
**Fits for Fan Sizes:**

120x120x25mm; 120x120x32mm
120x120x38mm

**Notes:**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.8±0.1mm.
  (2) Ribs are ∅ 1.8±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

### FGW-162A-1




unit: mm

**Fits for Fan Sizes:**

172x150x38mm; 172x150x51mm
∅172x51mm; 172x151x55mm

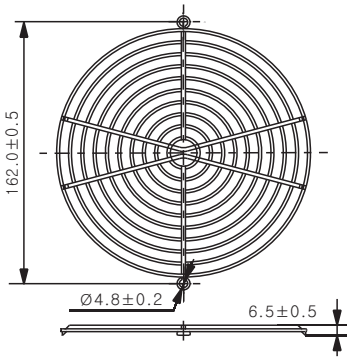
**Notes:**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are ∅ 1.8±0.1mm.
  (2) Ribs are ∅ 2.3±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets ∅ 6.35mm plug gauge test.

## General Application :

The **FGW** series wire form fan guards are designed for tubeaxial fans in 40mm, 50mm, 60mm, 70mm, 80mm, 92mm, 120mm, 172mm, 220mm, 254mm size and other custom designs.

### FGW-162A-5




unit: mm

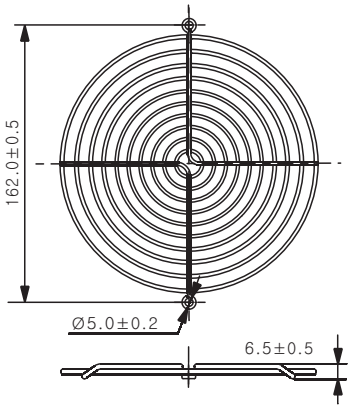
**Fits for Fan Sizes :**

172x150x38mm ; 172x150x51mm
Ø172x51mm ; 172x151x55mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are Ø1.8±0.1mm.
  (2) Ribs are Ø2.3±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets Ø6.35mm plug gauge test.

### FGW-162B-1




unit: mm

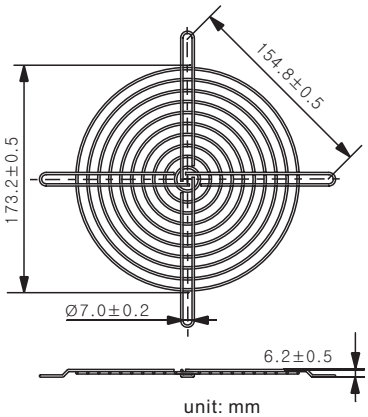
**Fits for Fan Sizes :**

172x150x38mm ; 172x150x51mm
Ø172x51mm ; 172x151x55mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are Ø1.8±0.1mm.
  (2) Ribs are Ø1.8±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets Ø6.35mm plug gauge test.

### FGW-180A-1




unit: mm

**Fits for Fan Sizes :**

180x180x65mm ; 180x180x90mm

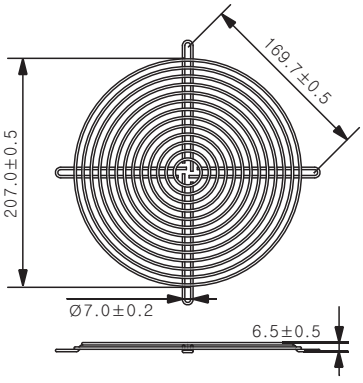
**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are Ø1.8±0.1mm.
  (2) Ribs are Ø1.8±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets Ø6.35mm plug gauge test.

## General Application :

The **FGW** series wire form fan guards are designed for tubeaxial fans in 40mm, 50mm, 60mm, 70mm, 80mm, 92mm,120mm,172mm, 220mm, 254mm size and other custom designs.

### FGW-200A-1




unit: mm

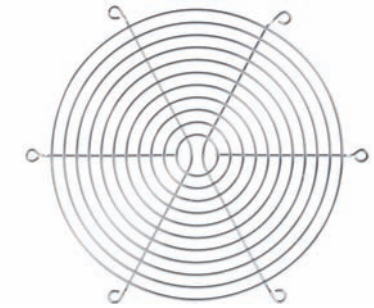
**Fits for Fan Sizes :**

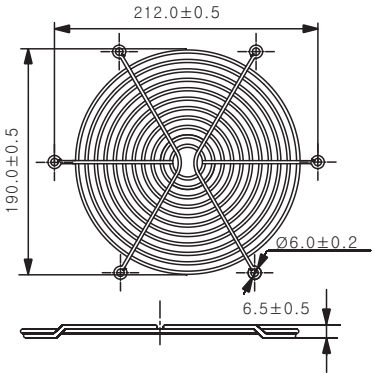
200x200x60mm ; 225x225x80mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are Ø1.8±0.1mm.
  (2) Ribs are Ø2.0±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets Ø6.35mm plug gauge test.

### FGW-220A-1






unit: mm

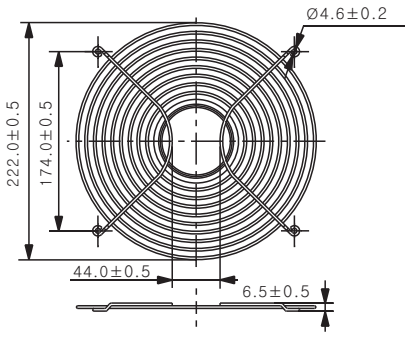
**Fits for Fan Size :**

Ø220x60mm ; Ø222x60mm

**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are Ø1.8±0.1mm.
  (2) Ribs are Ø1.8±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets Ø6.35mm plug gauge test.

### FGW-250A-1




unit: mm

**Fits for Fan Size :**

Ø254x89mm

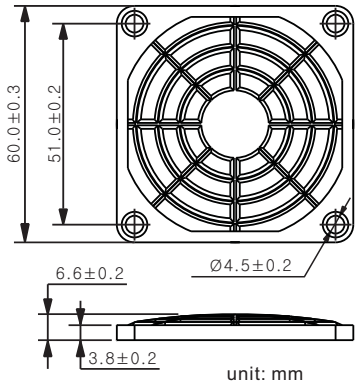
**Notes :**

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  (1) Rings are Ø2.3±0.1mm.
  (2) Ribs are Ø2.3±0.1mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets Ø6.35mm plug gauge test.

## General Application :

The **FGP** series plastic fan guard are designed for tubeaxial fans in 60mm, 80mm, 92mm, 120mm, 172mm size and other custom designs.

### FGP-060A-1




unit: mm

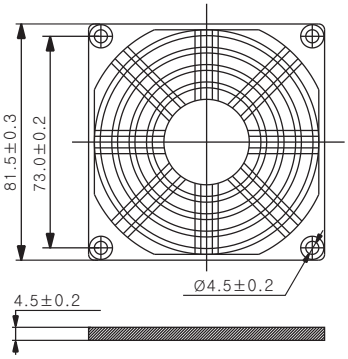
**Fits for Fan Sizes :**

60x60x10mm ; 60x60x15mm
60x60x20mm ; 60x60x25mm
60x60x38mm

**Notes :**

- Materials: PP RoHS, UL rated 94V-0.
- Ring spacing complies with safety agency regulations.
- Flat surface design with mounting holes.

### FGP-080A-1




unit: mm

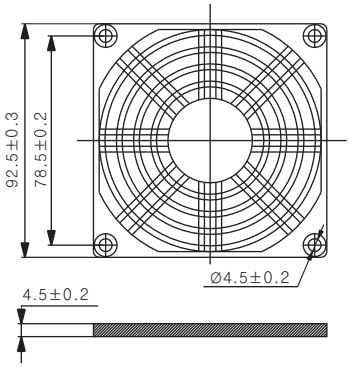
**Fits for Fan Sizes :**

80x80x10mm ; 80x80x15mm
80x80x20mm ; 80x80x25mm
80x80x32mm ; 80x80x38mm

**Notes :**

- Materials: PP RoHS, UL rated 94V-0.
- Ring spacing complies with safety agency regulations.
- Flat surface design with mounting holes.

### FGP-090A-1




unit: mm

**Fits for Fan Sizes :**

92x92x25mm ; 92x92x32mm
92x92x38mm

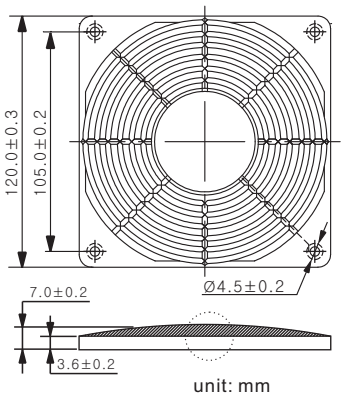
**Notes :**

- Materials: PP RoHS, UL rated 94V-0.
- Ring spacing complies with safety agency regulations.
- Flat surface design with mounting holes.

## General Application :

The **FGP** series plastic fan guard are designed for tubeaxial fans in 60mm, 80mm, 92mm, 120mm, 172mm size and other custom designs.

### FGP-120C-1




unit: mm

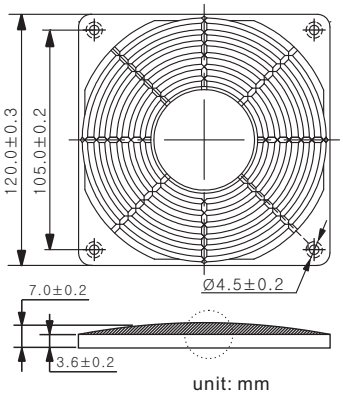
**Fits for Fan Sizes :**

120x120x25mm ; 120x120x32mm
120x120x38mm

**Notes :**

- Materials: PP RoHS, UL rated 94V-0.
- Ring spacing complies with safety agency regulations.
- Arc surface design with mounting holes.

### FGP-120C-1




unit: mm

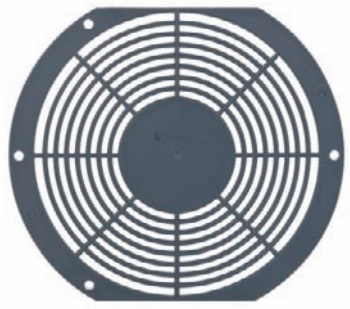
**Fits for Fan Sizes :**

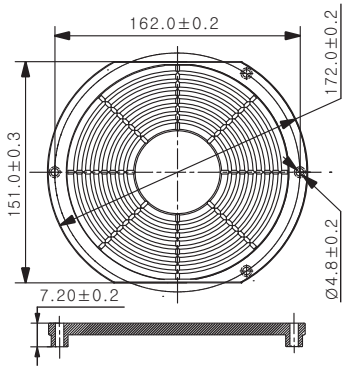
120x120x25mm ; 120x120x32mm
120x120x38mm

**Notes :**

- Materials: PP RoHS, UL rated 94V-0.
- Ring spacing complies with safety agency regulations.
- Arc surface design with mounting holes.

### FGP-162A-1






unit: mm

**Fits for Fan Sizes :**

172x150x38mm ; 172x150x51mm

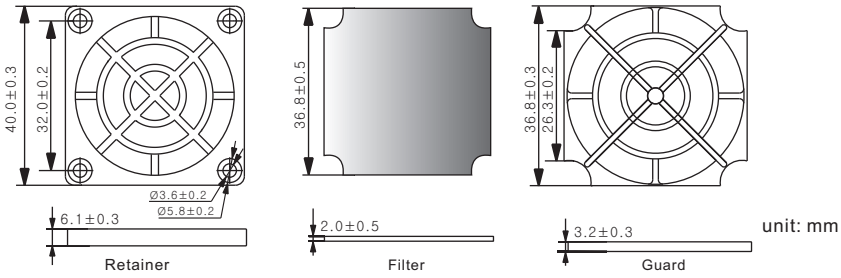
**Notes :**

- Materials: PP RoHS, UL rated 94V-0.
- Ring spacing complies with safety agency regulations.
- Flat surface design with mounting holes.

## General Application :

The **FPF** series plastic fan filter are designed for tubeaxial fans in 40mm, 60mm, 80mm, 92mm,120mm, 172mm size and other custom designs.

### FPF-040A-40



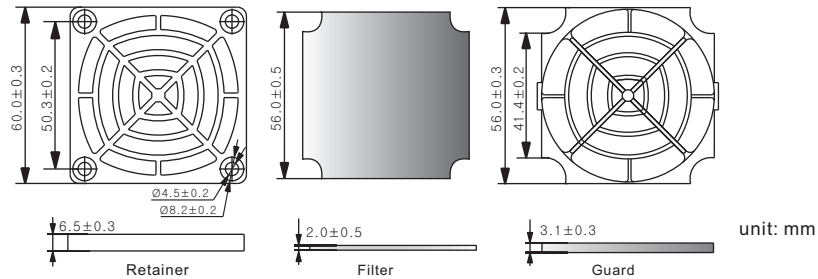

**Fits for Fan Sizes :**

40x40x07mm ; 40x40x10mm
40x40x15mm ; 40x40x20mm
40x40x28mm

**Notes :**

- Retainer & Guard Material: Flame retardant ABS plastic, rated UL94V-0.
- Retainer & Guard Color: Standard black.
- Filter Material: Polyurethane foam (PU) or Synthetic fiber (Nylon).
- Filter Density: 40ppi, 60ppi (pores per inch).

### FPF-060A-40



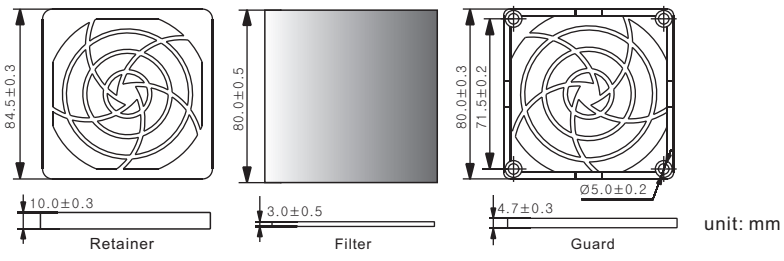

**Fits for Fan Sizes :**

60x60x10mm ; 60x60x15mm
60x60x20mm ; 60x60x25mm
60x60x38mm

**Notes :**

- Retainer & Guard Material: Flame retardant ABS plastic, rated UL94V-0.
- Retainer & Guard Color: Standard black.
- Filter Material: Polyurethane foam (PU) or Synthetic fiber (Nylon).
- Filter Density: 40ppi, 60ppi (pores per inch).

### FPF-080A-40




**Fits for Fan Sizes :**

80x80x10mm ; 80x80x15mm
80x80x20mm ; 80x80x25mm
80x80x32mm ; 80x80x38mm

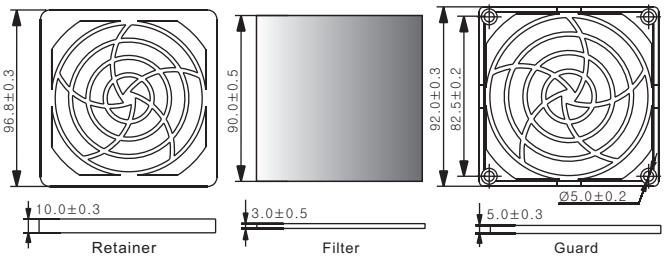
**Notes :**

- Retainer & Guard Material: Flame retardant ABS plastic, rated UL94V-0.
- Retainer & Guard Color: Standard black.
- Filter Material: Polyurethane foam (PU) or Synthetic fiber (Nylon).
- Filter Density: 40ppi, 60ppi (pores per inch).

## General Application :

The **FPF** series plastic fan filter are designed for tubeaxial fans in 40mm, 60mm, 80mm, 92mm, 120mm, 172mm size and other custom designs.

### FPF-090A-40




unit: mm

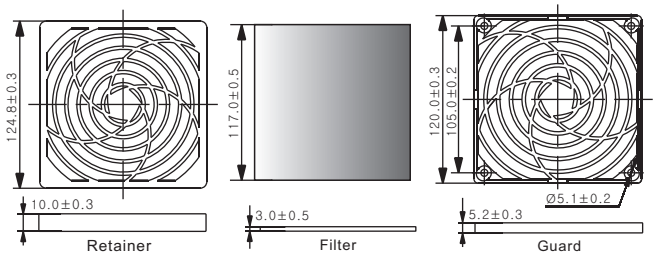
**Fits for Fan Sizes :**

90x90x25mm
90x90x32mm
90x90x38mm

**Notes :**

- Retainer & Guard Material: Flame retardant ABS plastic, rated UL94V-0.
- Retainer & Guard Color: Standard black.
- Filter Material: Polyurethane foam (PU) or Synthetic fiber (Nylon).
- Filter Density: 40ppi, 60ppi (pores per inch).

### FPF-120A-40




unit: mm

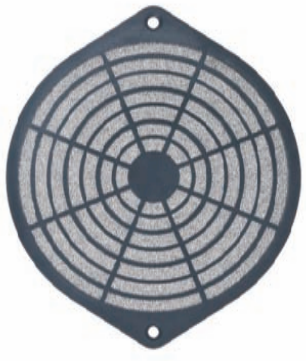
**Fits for Fan Sizes :**

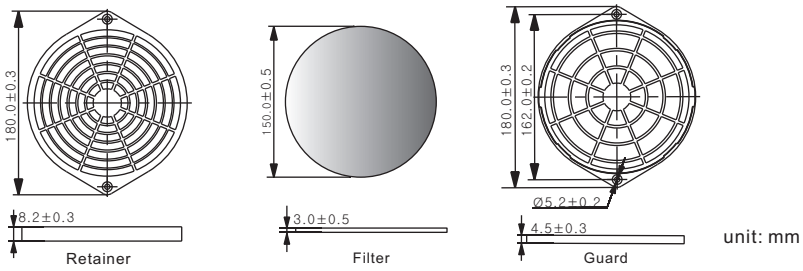
120x120x25mm
120x120x32mm
120x120x38mm

**Notes :**

- Retainer & Guard Material: Flame retardant ABS plastic, rated UL94V-0.
- Retainer & Guard Color: Standard black.
- Filter Material: Polyurethane foam (PU) or Synthetic fiber (Nylon).
- Filter Density: 40ppi, 60ppi (pores per inch).

### FPF-162A-40






unit: mm

**Fits for Fan Sizes :**

172x150x38mm
172x150x55mm

**Notes :**

- Retainer & Guard Material: Flame retardant ABS plastic, rated UL94V-0.
- Retainer & Guard Color: Standard black.
- Filter Material: Polyurethane foam (PU) or Synthetic fiber (Nylon).
- Filter Density: 40ppi, 60ppi (pores per inch).

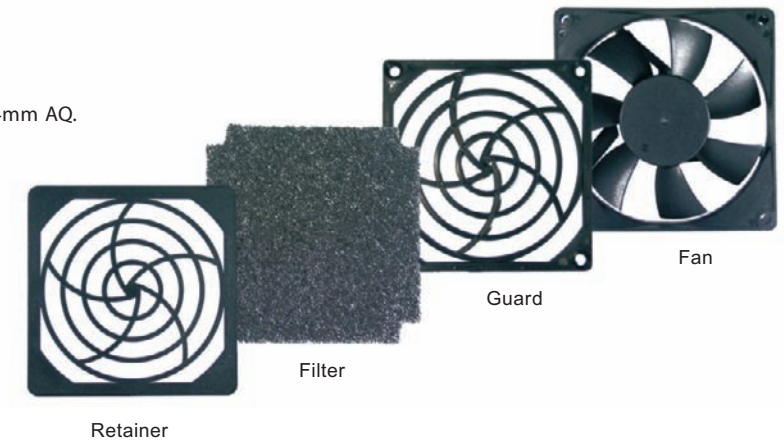
## General Application :

The **FPF** series plastic fan filter are designed for tubeaxial fans in 40mm, 60mm, 80mm, 92mm,120mm, 172mm size and other custom designs.

### Plastic Fan Filter Assemblies

**General Specifications** :

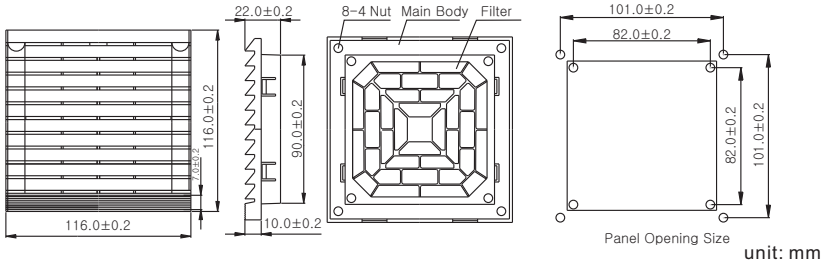
- Pressing damages of filter:
  Initial period 6.9mm AQ, final stage 24mm AQ.
- Maximum wind speed: 2.0M$^3$ /sec.
- Effective wind speed: 50M$^3$ /min.
- Use Scope: Indoor-10℃to55℃.
- Dust removal rate: up to 90%.



## General Application :

- The **FFV** series ventilator filter unit are design for tube axial fan in 92mm,120mm,172mm,220mm,254mm size.
- Ingress of protection up to IP54.
- The 45° design prevents the accumulation of water and dust, thereby improving the fans heat dissipation performance.

### FFV-090A-1




unit: mm

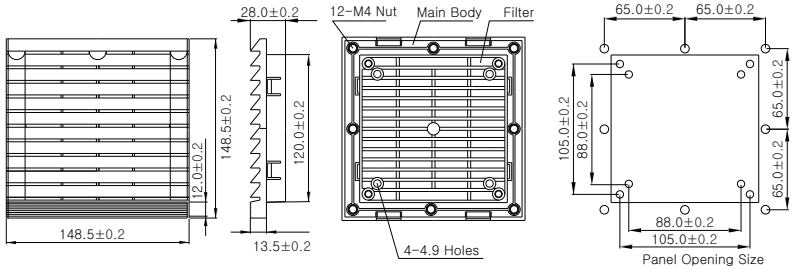
**Fits for Fan Sizes :**

92x92x25mm
92x92x32mm
92x92x38mm

**Notes :**

- Main Body Material: ABS FR-800(b) UL 94V-0
- Filter Material: PP51 + UL 94V-0, Up to 86% Ratio of Dust-cleaning.

### FFV-120A-1




unit: mm

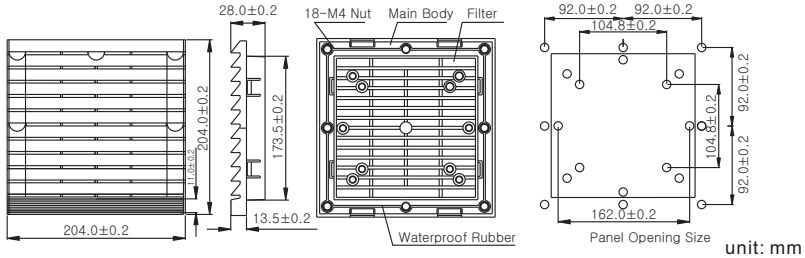
**Fits for Fan Sizes :**

120x120x25mm
120x120x38mm

**Notes :**

- Main Body Material: ABS FR-800(b) UL 94V-0
- Filter Material: PP51 + UL 94V-0, Up to 86% Ratio of Dust-cleaning.

### FFV-162A-1




unit: mm

**Fits for Fan Sizes :**

120x120x25mm
120x120x38mm
172x150x38mm
172x150x51mm

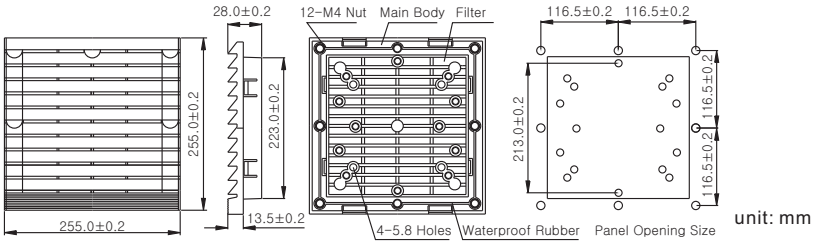
**Notes :**

- Main Body Material: ABS FR-800(b) UL 94V-0
- Filter Material: PP51 + UL 94V-0, Up to 86% Ratio of Dust-cleaning.

## General Application :

- The **FFV** series ventilator filter unit are design for tube axial fan in 92mm, 12mm, 172mm, 220mm, 254mm size.
- Ingress of protection up to IP54.
- The 45°design prevents the accumulation of water and dust, thereby improving the fans heat dissipation performance.

### FFV-220A-1



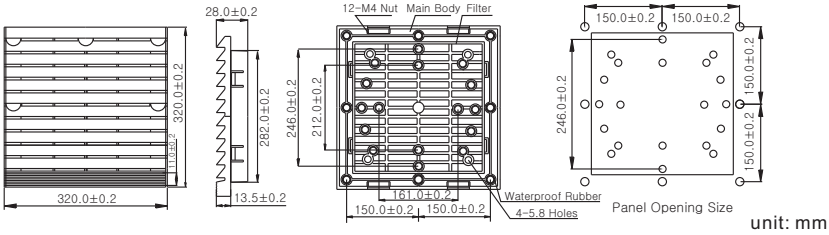

**Fits for Fan Sizes :**

172x150x51mm
Ø172x51mm
Ø220x60mm

**Notes :**

- Main Body Material: ABS FR-800(b) UL 94V-0
- Filter Material: PP51 + UL 94V-0, Up to 86% Ratio of Dust-cleaning.

### FFV-250A-1




**Fits for Fan Sizes :**

172x150x51mm
172x150x55mm
Ø220x60mm
Ø254x89mm

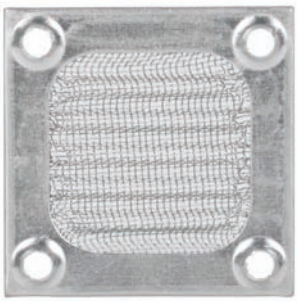
**Notes :**

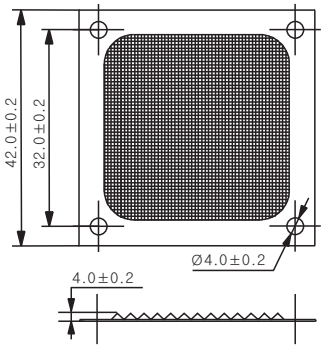
- Main Body Material: ABS FR-800(b) UL 94V-0
- Filter Material: PP51 + UL 94V-0, Up to 86% Ratio of Dust-cleaning.

## General Application :

- The **FFA** series aluminum fan filters are designed for tubeaxial fan in 40mm, 60mm, 80mm, 92mm,120mm,172mm size.
- Specially designed to allow effective filtering while maximizing airflow.
- Mill finish enhances EMI/RFI shielding and improves durability.

### FFA-040A-1






unit: mm

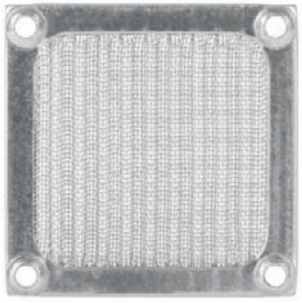
**Fits for Fan Sizes :**

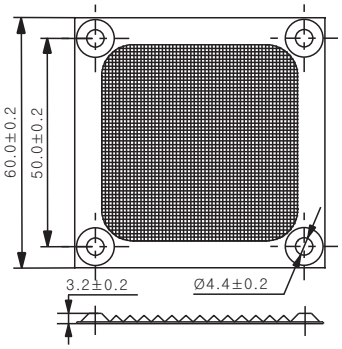
40x40x07mm ; 40x40x10mm
40x40x15mm ; 40x40x20mm
40x40x28mm

**Notes :**

- Frame: Aluminum with 1.6mm thickness.
- Mesh: 30*30 mesh convoluted approx 1/8″ deep with approx. 3/16″ pitch.

### FFA-060A-1






unit: mm

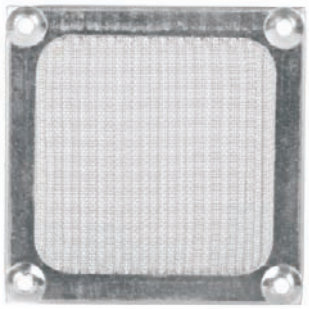
**Fits for Fan Sizes :**

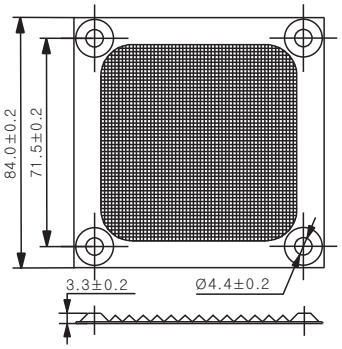
60x60x10mm ; 60x60x15mm
60x60x20mm ; 60x60x25mm
60x60x38mm

**Notes :**

- Frame: Aluminum with 1.6mm thickness.
- Mesh: 30*30 mesh convoluted approx 1/8″ deep with approx. 3/16″ pitch.

### FFA-080A-1






unit: mm

**Fits for Fan Sizes :**

80x80x10mm ; 80x80x15mm
80x80x20mm ; 80x80x25mm
80x80x32mm ; 80x80x38mm

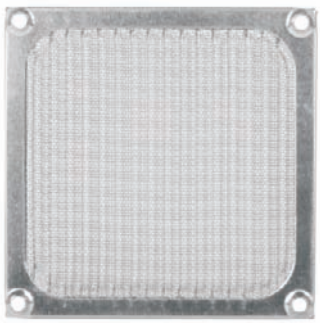
**Notes :**

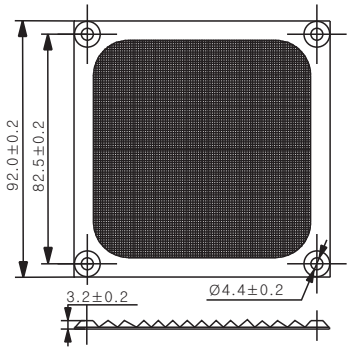
- Frame: Aluminum with 1.6mm thickness.
- Mesh: 30*30 mesh convoluted approx 1/8″ deep with approx. 3/16″ pitch.

## General Application :

- The **FFA** series aluminum fan filters are designed for tubeaxial fan in 40mm, 60mm, 80mm, 92mm, 120mm, 172mm size.
- Specially designed to allow effective filtering while maximizing airflow.
- Mill finish enhances EMI/RFI shielding and improves durability.

### FFA-090A-1






unit: mm

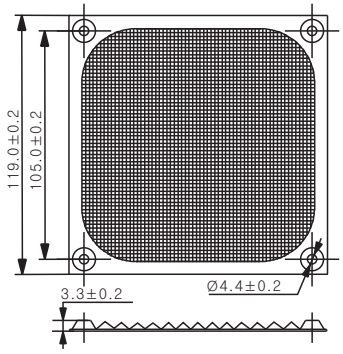
**Fits for Fan Sizes :**

92x92x25mm ; 92x92x32mm
92x92x38mm

**Notes :**

- Frame: Aluminum with 1.6mm thickness.
- Mesh: 30*30 mesh convoluted approx 1/8″ deep with approx. 3/16″ pitch.

### FFA-120A-1




unit: mm

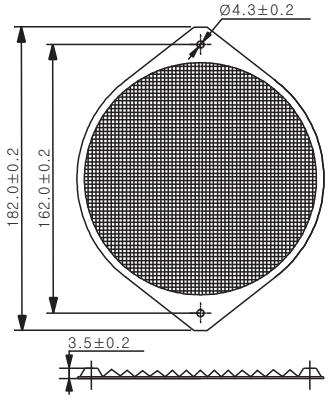
**Fits for Fan Sizes :**

120x120x25mm ; 120x120x32mm
120x120x38mm

**Notes :**

- Frame: Aluminum with 1.6mm thickness.
- Mesh: 30*30 mesh convoluted approx 1/8″ deep with approx. 3/16″ pitch.

### FFA-162A-1




unit: mm

**Fits for Fan Sizes :**

172x150x38mm 172x150x55mm

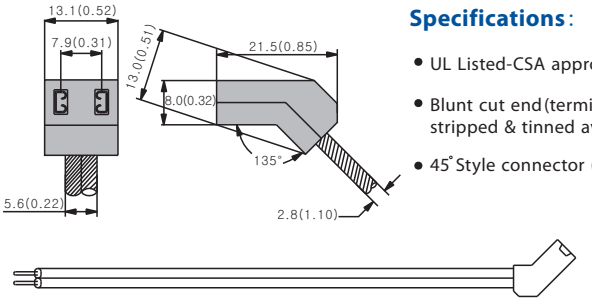
**Notes :**

- Frame: Aluminum with 1.6mm thickness.
- Mesh: 30*30 mesh convoluted approx 1/8″ deep with approx. 3/16″ pitch.

## General Application :

- The **FPC** series power cords come in a variety of lengths, connector designs, and cordends.
- This line of fan cords is suitable for all tube axial fans with a terminal connector.
- The connectors are available in three configurations while the cord ends can be blunt cut or power plug.
- Cord lengths come in 12",24",36",48",60",72",84",96",108",and 120".
- Custom designs and lengths are available upon request.

### FPC-VxxW Series



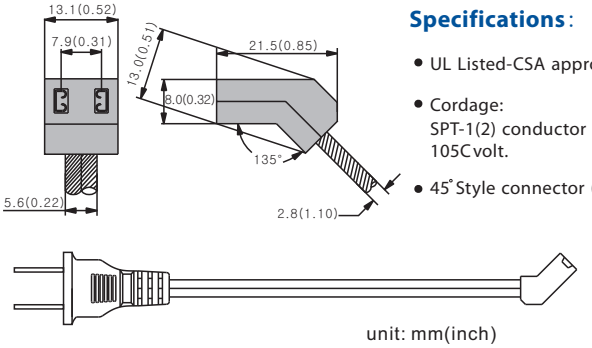

unit: mm(inch)

**Specifications :**

- UL Listed-CSA approved.
- Blunt cut end(terminated or stripped & tinned available).
- 45˚Style connector (V Type).

| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-V12W | 305 | 12 |
| FPC-V24W | 610 | 24 |
| FPC-V36W | 915 | 36 |
| FPC-V48W | 1220 | 48 |
| FPC-V60W | 1525 | 60 |
| FPC-V72W | 1830 | 72 |
| FPC-V84W | 2130 | 84 |
| FPC-V96W | 2440 | 96 |
| FPC-V108W | 2745 | 108 |
| FPC-V120W | 3050 | 120 |

### FPC-VxxP Series



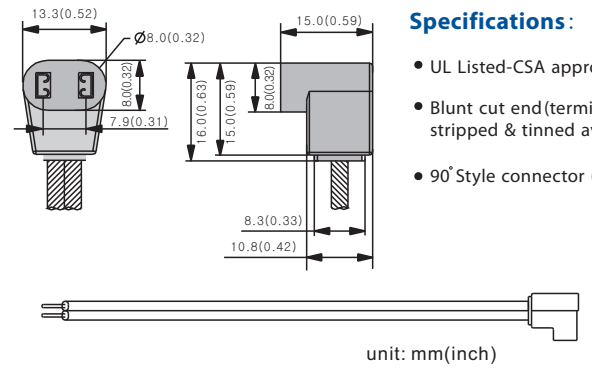

unit: mm(inch)

**Specifications :**

- UL Listed-CSA approved.
- Cordage: SPT-1(2) conductor black 105C volt.
- 45˚Style connector (V Type).

| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-V12P | 305 | 12 |
| FPC-V24P | 610 | 24 |
| FPC-V36P | 915 | 36 |
| FPC-V48P | 1220 | 48 |
| FPC-V60P | 1525 | 60 |
| FPC-V72P | 1830 | 72 |
| FPC-V84P | 2130 | 84 |
| FPC-V96P | 2440 | 96 |
| FPC-V108P | 2745 | 108 |
| FPC-V120P | 3050 | 120 |

### FPC-LxxW Series




unit: mm(inch)

**Specifications :**

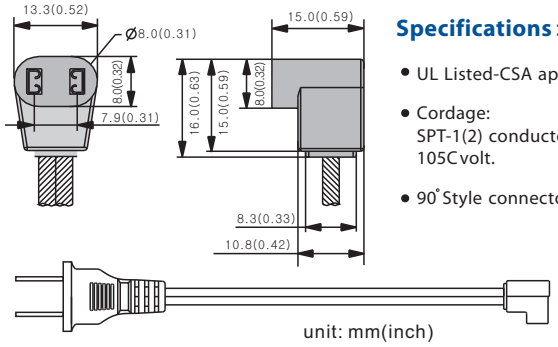
- UL Listed-CSA approved.
- Blunt cut end(terminated or stripped & tinned available).
- 90˚Style connector (L Type).

| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-L12W | 305 | 12 |
| FPC-L24W | 610 | 24 |
| FPC-L36W | 915 | 36 |
| FPC-L48W | 1220 | 48 |
| FPC-L60W | 1525 | 60 |
| FPC-L72W | 1830 | 72 |
| FPC-L84W | 2130 | 84 |
| FPC-L96W | 2440 | 96 |
| FPC-L108W | 2745 | 108 |
| FPC-L120W | 3050 | 120 |

## General Application :

- The **FPC** series power cords come in a variety of lengths, connector designs, and cordends.
- This line of fan cords is suitable for all tube axial fans with a terminal connector.
- The connectors are available in three configurations while the cord ends can be blunt cut or power plug.
- Cord lengths come in 12",24",36",48",60",72",84",96",108",and 120".
- Custom designs and lengths are available upon request.

### FPC-LxxP Series



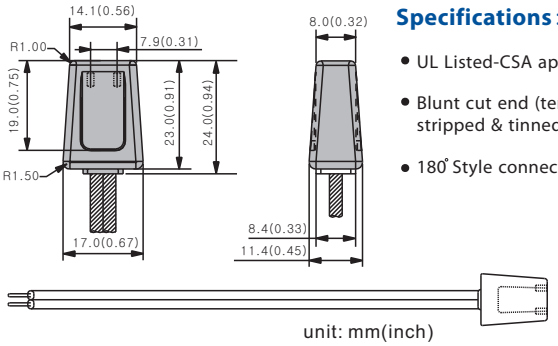

unit: mm(inch)

**Specifications :**

- UL Listed-CSA approved.
- Cordage: SPT-1(2) conductor black 105C volt.
- 90° Style connector (L Type).

| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-L12P | 305 | 12 |
| FPC-L24P | 610 | 24 |
| FPC-L36P | 915 | 36 |
| FPC-L48P | 1220 | 48 |
| FPC-L60P | 1525 | 60 |
| FPC-L72P | 1830 | 72 |
| FPC-L84P | 2130 | 84 |
| FPC-L96P | 2440 | 96 |
| FPC-L108P | 2745 | 108 |
| FPC-L120P | 3050 | 120 |

### FPC-SxxW Series



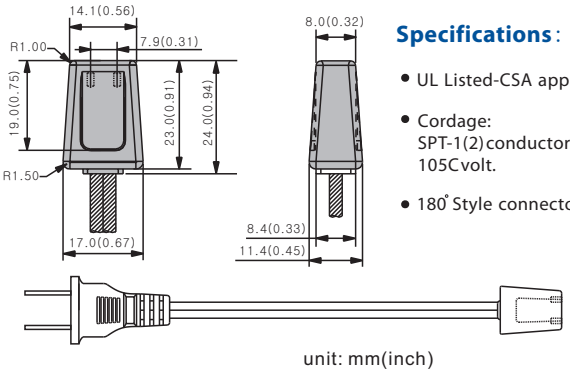

unit: mm(inch)

**Specifications :**

- UL Listed-CSA approved.
- Blunt cut end (terminated or stripped & tinned available).
- 180° Style connector(S Type).

| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-S12W | 305 | 12 |
| FPC-S24W | 610 | 24 |
| FPC-S36W | 915 | 36 |
| FPC-S48W | 1220 | 48 |
| FPC-S60W | 1525 | 60 |
| FPC-S72W | 1830 | 72 |
| FPC-S84W | 2130 | 84 |
| FPC-S96W | 2440 | 96 |
| FPC-S108W | 2745 | 108 |
| FPC-S120W | 3050 | 120 |

### FPC-SxxP Series




unit: mm(inch)

**Specifications :**

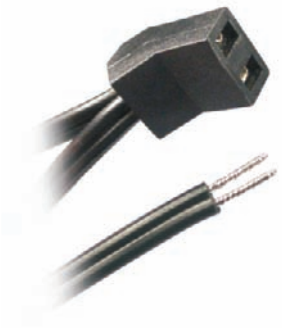
- UL Listed-CSA approved.
- Cordage: SPT-1(2) conductor black 105C volt.
- 180° Style connector(S Type).

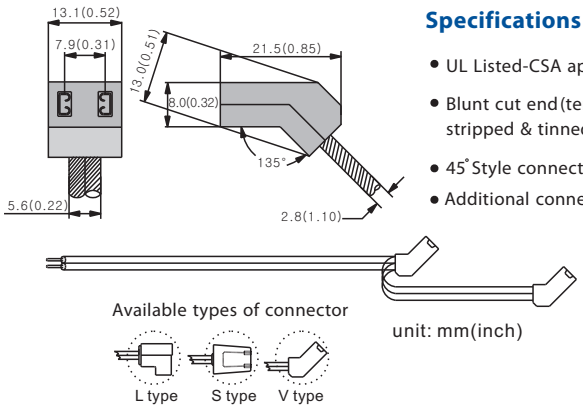
| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-S12P | 305 | 12 |
| FPC-S24P | 610 | 24 |
| FPC-S36P | 915 | 36 |
| FPC-S48P | 1220 | 48 |
| FPC-S60P | 1525 | 60 |
| FPC-S72P | 1830 | 72 |
| FPC-S84P | 2130 | 84 |
| FPC-S96P | 2440 | 96 |
| FPC-S108P | 2745 | 108 |
| FPC-S120P | 3050 | 120 |

## General Application :

- The **FPC** series power cords come in a variety of lengths, connector designs, and cordends.
- This line of fan cords is suitable for all tube axial fans with a terminal connector.
- The connectors are available in three configurations while the cord ends can be blunt cut or power plug.
- Cord lengths come in 12",24",36",48",60",72",84",96",108",and 120".
- Custom designs and lengths are available upon request.

### FPC-VxxW-7D2 Daisy Chain Series



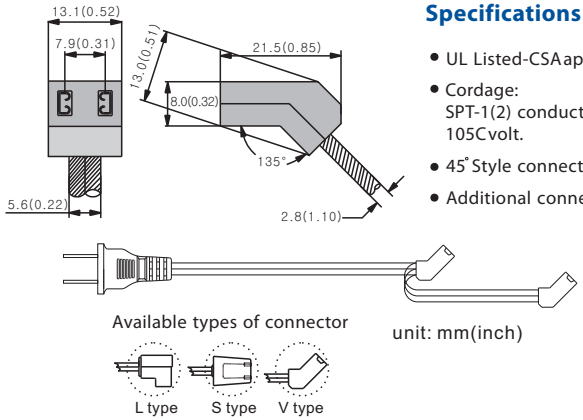



**Specifications :**

- UL Listed-CSA approved.
- Blunt cut end(terminated or stripped & tinned available).
- 45° Style connector (V Type).
- Additional connectors: 2 to12.

| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-V12W-7D2 | 305 | 12 |
| FPC-V24W-7D2 | 610 | 24 |
| FPC-V36W-7D2 | 915 | 36 |
| FPC-V48W-7D2 | 1016 | 48 |
| FPC-V60W-7D2 | 1270 | 60 |
| FPC-V72W-7D2 | 1830 | 72 |
| FPC-V84W-7D2 | 2130 | 84 |
| FPC-V96W-7D2 | 2440 | 96 |
| FPC-V108W-7D2 | 2745 | 108 |
| FPC-V120W-7D2 | 3050 | 120 |

### FPC-VxxP-7D2 Daisy Chain Series

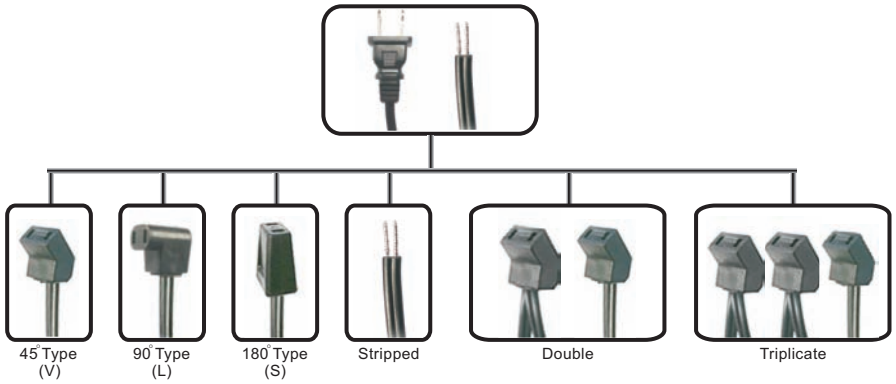



**Specifications :**

- UL Listed-CSA approved.
- Cordage: SPT-1(2) conductor black 105C volt.
- 45° Style connector (V Type).
- Additional connectors: 2 to12.

| Part Number | Cord Length | |
|---|---|---|
| | mm | inch |
| FPC-V12P-7D2 | 305 | 12 |
| FPC-V24P-7D2 | 610 | 24 |
| FPC-V36P-7D2 | 915 | 36 |
| FPC-V48P-7D2 | 1220 | 48 |
| FPC-V60P-7D2 | 1525 | 60 |
| FPC-V72P-7D2 | 1830 | 72 |
| FPC-V84P-7D2 | 2130 | 84 |
| FPC-V96P-7D2 | 2440 | 96 |
| FPC-V108P-7D2 | 2745 | 108 |
| FPC-V120P-7D2 | 3050 | 120 |

### Available Power Cord Combination



# IC Functional Waveform

a Speed Sensor: two pulses per revolution.

b Speed Sensor with Auto Restart.

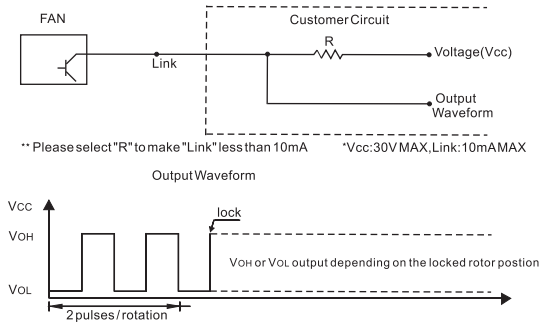
c Alarm High: low for pass, high for fail.

d Temperature Controlled Speed.

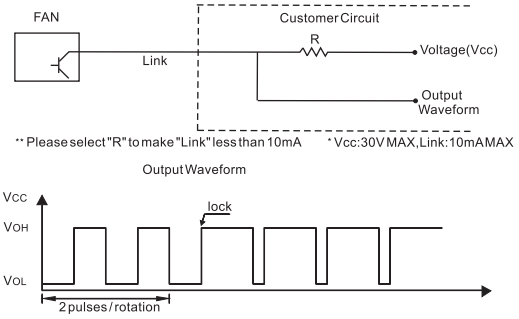
e PWM(Pulse Width Modulation) Control Input.

Specifications are subject to change with customer design.

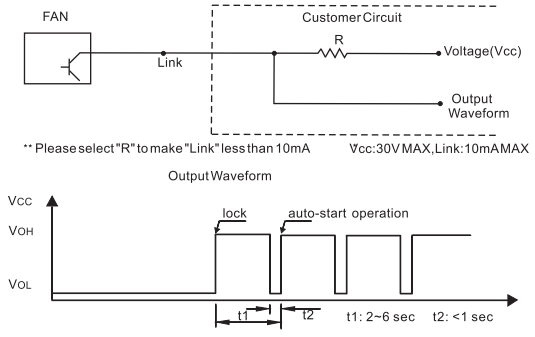
## a Speed Sensor or Tachometer (F/G)



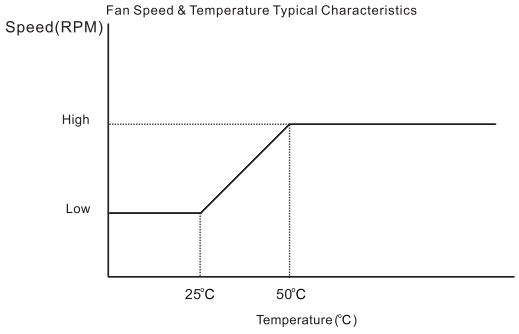

## b Speed Sensor w/ Auto Restart




## c Alarm High w/Auto Restart

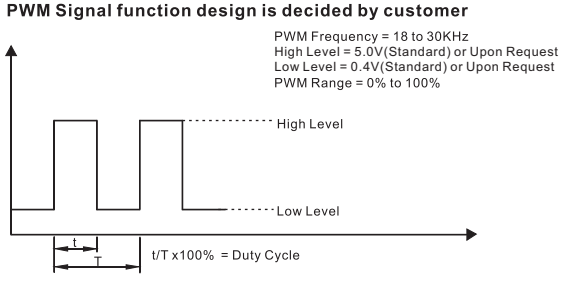


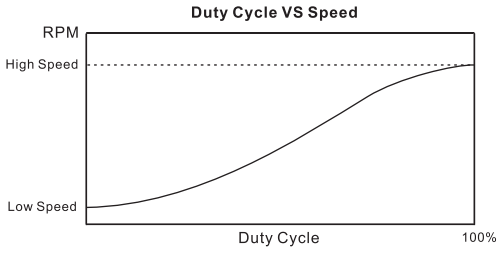

## d Temperature Controlled Speed




## e PWM(Pulse Width Modulation) Control Input

**PWM Signal function design is decided by customer**



## Characteristic Measurement

### Airflow Measurement

Fan airflow performance curves are obtained by using the Double-Chamber method based on AMCA standard. The difference between the pressures before and after the nozzle (differential pressure Pn) is measured to obtain the airflow at the nozzle. Static pressure Ps is also measured and recorded. The auxiliary blower cancels out the aerodynamic resistance. Airflow rate is calculated by the following equation:

$Q = 60 A \times V$

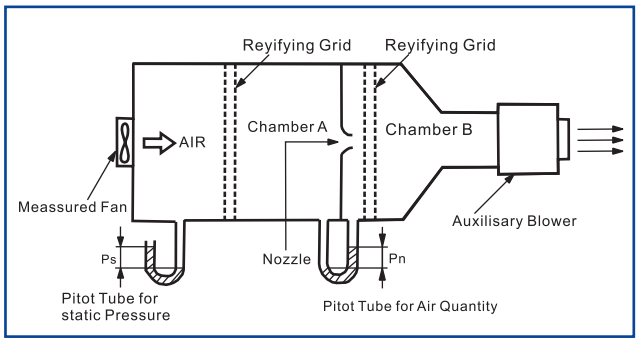
**where**
Q: airflow rate($m^3$/min)
A: nozzle sectional area ($m^2$)
V: average flow velocity through nozzle (M/sec)

$V = [2 g Pn / r]$

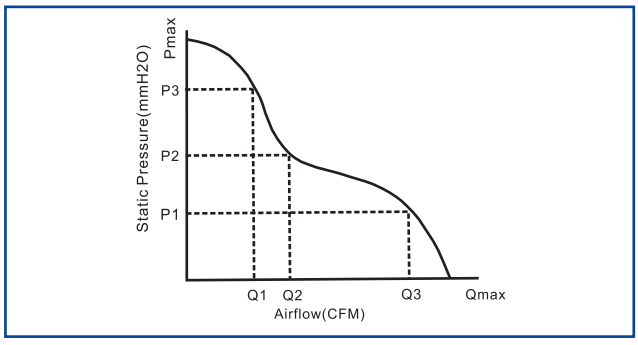
**where**
g: gravitational acceleration, 9.8m/$s^2$
Pn: differential pressure (mm H2O)
Ps: static pressure
r: specific gravity of air, 1.2 kg/$m^3$ at 20°C, 1atm

Maximum airflow: when opening the nozzle and absorbing the air using the auxiliary blower to make the static pressure (Ps) equal to zero, the differential pressure between chamber A and B, Pn will be at its maximum value. Plug this Pn value to the above equation will result in the maximum airflow rate.

Maximum static pressure: if the nozzle is closed, then the pressure in the chamber A will be at its maximum value. The differential pressure, Ps, between the ambient air pressure and the pressure in the chamber can now be considered the maximum static pressure.



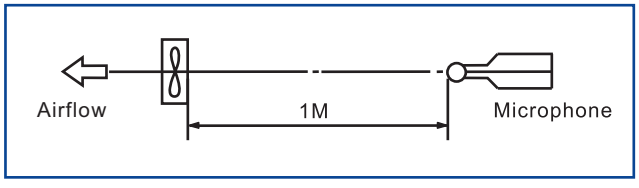

The Measuring Method-double Chamber




Fan Airflow vs. Static Pressure Characteristic Curve

### Acoustic Noise Level Measurement

Noise is measured in accordance with ISO7779 standards in an Anechoic Charmber with less than 18.6 dBA backgroud noise. The cooling fans being tested runs in free airflow and a noise meter is set one meter away from the air entrance and 90 degrees to the fan.




Noise Test of Cooling Fan

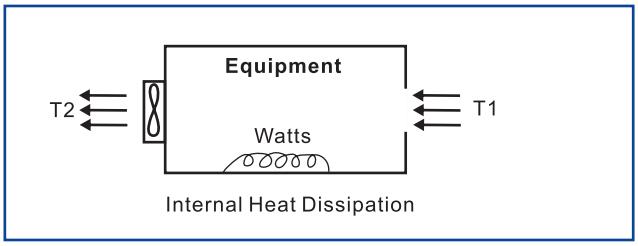
# How to Choose a Fan (I)

In thermal management, fans are classified as objects that forces air at a volumetric rate to cool certain devices, like a CPU microprocessor. There are numerous types of air moving products including axial, propeller, and tubeaxial fans. Other air movers consist of impellers and blowers (centrifugal & crossflow). Fans, impellers, and blowers could be distinguished by their size, shape, but more importantly, the flow of air (measured in CFM) given the static air pressure.

## How To Choose The Right One For Your Application?

### Measuring Heat

The main purpose of a fan is to cool other components; therefore, the most important factor to consider before choosing a fan is exactly how much heat dissipation is necessary.
The amount of heat transferred could be derived using the following equation:




$Q = m C_p DT$

**Where,**

Q = the amount of heat transferred to system, Watts $C_p$ = the specific heat of air, J/kg x K
m = the mass flow rate of air, kg/s
DT = the desired air temperature differential (cabinet to ambient outside air), K

Yet, there is still a relationship between the mass flow rate and the volumetric flow rate.
$m = rG$

**Where,**

G = the volumetric flow rate, m3/s
r = the air density, kg/m3

Therefore, the required volumetric flow rate is then calculated as:

$G = Q / (rC_p DT)$

By utilizing this formula, you can get an estimate of the airflow required to obtain the desired air temperature in DT. However, the actual operating airflow is determined by the intersection of the fan curve and the systems resistance curve. This point of intersection can be calculated using one of three approaches.

### 1) Airflow Network Methods:

For this approach to be effective requires certain criteria to be true. First, the flow path to the cabinet must be known or roughly estimated. Secondly, the geometry must remain simple, meaning the three-dimensional flow path cannot be complex.

# How to Choose a Fan (Ⅱ)

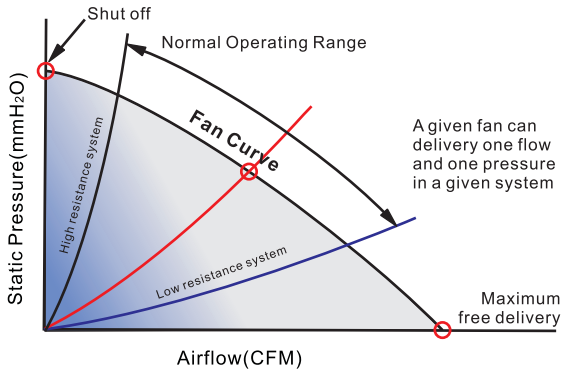
### 2) Computational Commercial Software:

When the flow path is more complicated, the use of computational fluid dynamics (CFD) may simplify things greatly. A fan's performance curve is used as reference input to the CFD software where the operating point and system resistance is determined. While taking into account the effects of turbulence and gravity, the CFD assesses the flow of air and heat transfer in a three dimensional view, mimicking real life applications. Even more complex calculations involving a series of fans in parallel formation can be easily analyzed using CFD software.

### 3) Experimental Evaluation Mockup of the System:

The total airflow or the system resistance curve can be measured using the experimental method. In this method, the operating airflow is obtained when the engineer superimposes the airflow and system resistance curve.

Regardless of how the operating airflow within a system is derived, all systems are depicted by a system resistance curve as the one shown below.




This non-linear expression of airflow versus static pressure can be stated as:

$DP = KrGN$

**Where,**
DP = system pressure loss
K = the load factor specific to the system
r = density of air
G = rate of airflow
N = a constant which varies between 1 and 2. If N=1, then airflow is completely laminar. If N=2, then completely turbulent.

Once actual airflow is determined, a comparison between actual and required airflow need to be evaluated. If the actual value is considerably less than the required value, the packaging system must be reexamined so the diminishment of airflow resistance can be asserted and renovated.

In summary, the first and foremost important factor to choosing your fan is determining the airflow and the required pressure to move the volumetric rate flow to dissipate heat within your system. Before first making this analysis, to determine other factors like fan dimension, bearing, and the need for special functions might be meaningless or irrelevant. This is an introduction to understand the main purpose of a fan and equations necessary to determine basis of fan selection.

## How to Determine Fan Life ( I )

Fan life can be measured using different techniques. Engineers in the industry use either $L_{10}$ or MTTF. $L_{10}$ measures life by assuming certain conditions of fan life distribution, at which ten percent of the sample units are tested and failed. $L_{10}$ is calculated based on temperature acceleration method defined in MIL-STD-781. Testing is usually conducted under 70 ℃-80℃.

MTTF or the mean time to failure is the average time before fans fail. Failure is defined as one of the following:
(1) fan does not work,
(2) RPM is 30% of origin, and
(3) rated current is 30% of origin.
Usually, a test batch of samples is taken to ensure that the probability test is reliable.

### Calculations of Life

*$L_{10}$ Life (the minimum service life)*

T (forecast) = T (actual) x FCC

**Where:**

T (forecast) = the forecasted $L_{10}$ life under working temperature $T_f$ usually 25℃

T (actual) = the actual tested life under temperature $T_a$

FCC = the temperature accelerator = $2EXP[(T_f - T_a) / 10]$

*MTTF (Mean Time To Failure)*

A.F. = $e^{(H/K)}$ x $((1/273 + T_L) - 1/(273 + T_H))$

**Where:**

A.F. = Acceleration Factor is number of fan failed at $T_L$ test divided by number of fan failed at $T_H$

273 = Absolute Temperature

e = Natural Log

AH = Activation Energy

K = Bottzmann's Constant = $8.623x10^{-5}$

$T_L$ = Tested Temperature Low = 50 ℃

$T_H$ = Tested Temperature High = 80 ℃

# How to Determine Fan Life (II)

Life characteristics are dependent on the combination of voltage, frequency, ambient temperature, mounting altitude, environment, and restriction to airflow conditions encountered in an individual application. The most important factor to failure is the bearings and its lubrication.

## Bearing Type

The relationship between a fan and its bearing is positive. If the bearing breaks, so does the fan. The types of bearings include sleeve, one ball one sleeve, and dual ball.

The life hours increase as you move from left to right. Sleeve bearing, compared to ball bearing, tend to be quieter at the initial start and relatively less expensive. As for the ball bearing, it can operate better under extreme temperatures.

Sleeve bearings have a life around 30,000 hours or the equivalent of 6 years under normal, 8-hour conditions. At the initial point, a sleeve bearing fan is much quieter than a ball bearing. Over time, the sleeve bearings will start losing lubrication and will become noisier than its counterpart. On the other hand, the life of a ball bearing fan is typically twice as long as a sleeve bearing one. At initial use, the sleeve is much quieter. But if there is a rise in temperature, the sleeve bearing will lose lubrication much faster, leading to faster thermal breakdown. Still, sleeve fans remain relatively quiet up until the lubrication is gone; whereas ball bearing fans get noisier shortly after it starts.

## Conclusion

As different companies use different approaches, it is useless to compare the life expectancy information from one company with that from other companies.

Thermal Engineers and Component Evaluation Engineers have to perform an independent comparative analysis when selecting a fan.

Parameters of importance in fan life analysis include failure criteria, the distribution functions for statistical analysis and the life test acceleration factors.

Once these parameters are selected, they should be used consistently in order to compare different fans. We hope the material presented here will help encourage standardization in fan life evaluation.

# Units of Measure and Conversions

## Airflow

| | |
|---|---|
| 1 CFM = 0.0283 $m^3$/min (CMM) | 1 CFM = 1.699 $m^3$/hr |
| 1 $m^3$/min = 35.31 CFM | 1 $m^3$/min = 60 $m^3$/hr |
| 1 $m^3$/min = 16.67 ℓ/sec | 1 ℓ/sec = 0.06 $m^3$/min |
| 1 $m^3$/hr = 0.589 CFM | 1 $m^3$/hr = 0.0167 $m^3$/min |

| CFM | $m^3$/min(CMM) | $m^3$/hr |
|---|---|---|
| 1 | 0.0283 | 1.699 |
| 35.31 | 1 | 60 |
| 0.589 | 0.0167 | 1 |

## Static Pressure

| | |
|---|---|
| 1 Pa = 0.102 $mmH_2O$ | 1 Pa = 0.004 $inchH_2O$ |
| 1 $mmH_2O$ = 0.0394 $inchH_2O$ | 1 $mmH_2O$ = 9.81 Pa |
| 1 $inchH_2O$ = 249 Pa | 1 $inchH_2O$ = 25.4 $mmH_2O$ |

| Inch $H_2O$ | mm $H_2O$ | Pa |
|---|---|---|
| 1 | 25.4 | 249 |
| 0.0394 | 1 | 9.81 |
| 0.004 | 0.102 | 1 |

## The Basic Theory of Acoustic

### Sound pressure level: SPL (dBA)

$$Lp = 20\log \frac{p}{p_0}(dBA) \quad \text{.....(a)} \qquad P_0 = 20\,\mu Pa$$

$P_0$ the reference sound pressure of human hearing system

$L_P$ sound pressure level

### Similarity algorithm of fan noise

$$N = 50\log \frac{rpm_2}{rpm_1} - N_1 \quad \text{..... (b)}$$

$N_1$ noise level measured at rpm 1

$N_2$ noise level calculated by equation (b) at rpm 2

**The equations for the relationship between distance and noise level measured at anechoic room.**

$$Lp = L_{\bar{w}} - 20\log(r) - 11\ [dBA] \quad \text{.....(c)}$$

$$L_w = 10\log\left(\frac{p^2}{p_0^2}\right) + 10\log(4\pi r^2) \quad \text{.....(d)}$$

$L_P$ sound pressure level

$L_w$ sound intensity level

$r$ distance in meter

**According to equations (c) and (d), it's very clear that the noise level is reduced by 6 dBA when the distance is doubled.**
**Comparatively, the noise level will increase by 6 dBA when the distance is shortened by half.**