

# 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 breakthrough 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 efficiency 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

Fan Size	Series	Page
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
50x50x10mm	FD5010-84	30
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
60x60x25mm	FD6025-73	43
60x60x25mm	FD6025-75	44
60x60x25mm	FD6025-83	45
60x60x25mm	FD6025-84	46
60x60x25mm	FD6025-85	47
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
80x80x25mm	FD8025-21	61
80x80x25mm	FD8025-71	62
80x80x25mm	FD8025-73	63
80x80x25mm	FD8025-75	64
80x80x25mm	FD8025-83	65
80x80x25mm	FD8025-84	66
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80x80x38mm	FD8038-81	68
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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
120x120x38mm	FD1238-84	82
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172x150x51mm	FD1751-52	84
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Ø172x51mm	FD1751-65	86
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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
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120x120x25mm	FA1225-61	116
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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
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172x150x51mm	FA1751-61	136
171x150x51mm	FA1751-78	137
172x150x51mm	FA1751-96	138
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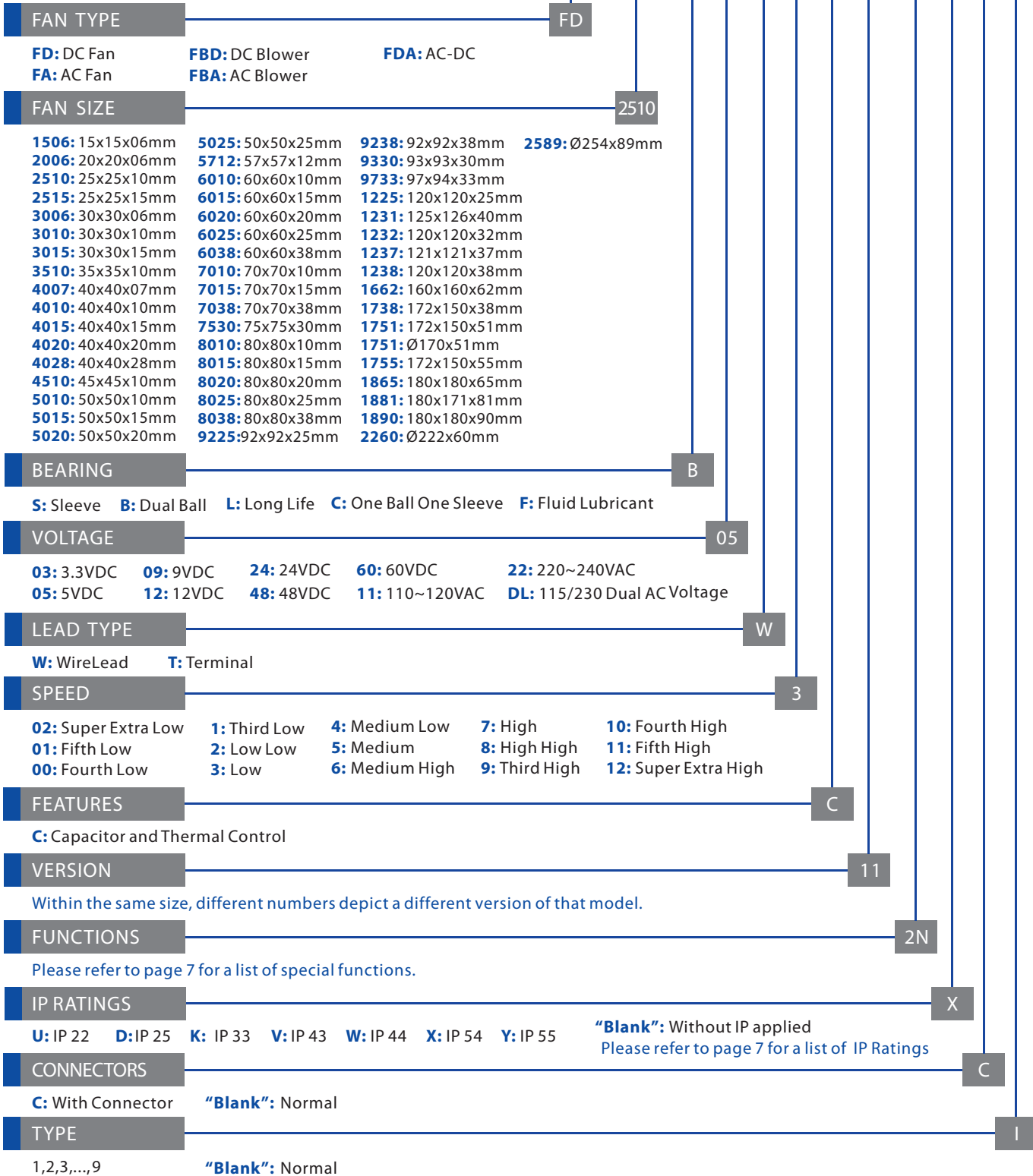
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# FAN PART NUMBER SYSTEM

## FANS AND BLOWERS

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

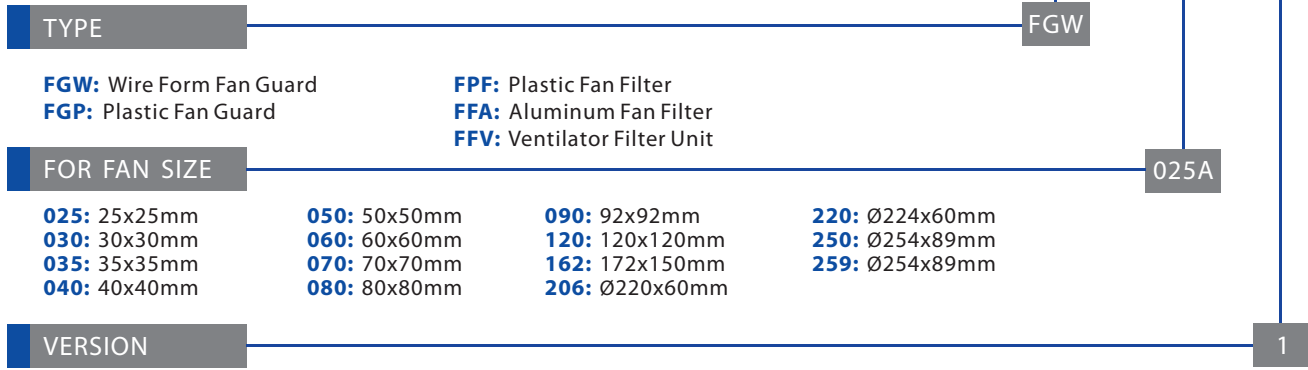




# ACCESSORY PART NUMBER SYSTEM

## FAN GUARDS AND FILTERS

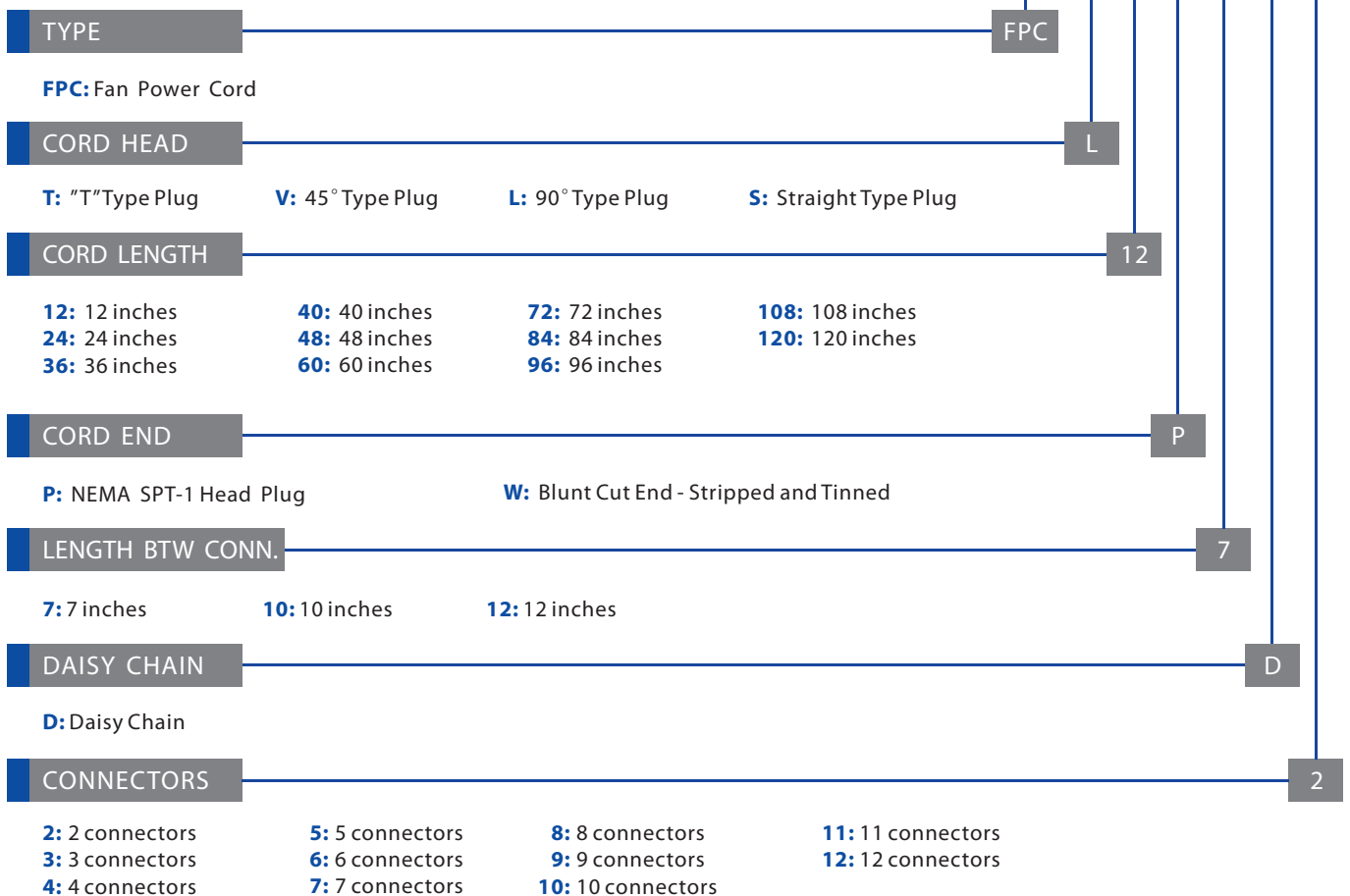
### FGW - 025A - 1



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

## FAN POWER CORDS

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



# 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)

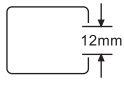
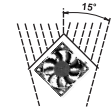
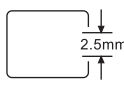
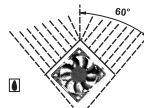
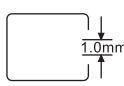
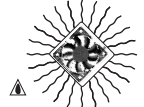
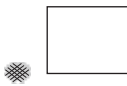
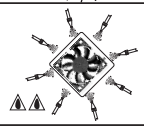


Storage Temperature: -40°C to 75°C (Humidity 35% to 85% RH)



## 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)

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

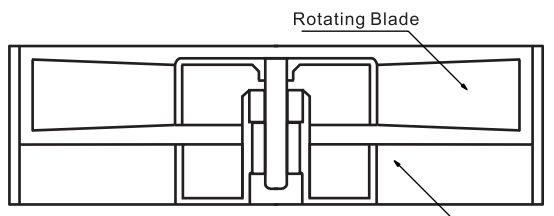
## PRINCIPLE

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 <sub>2</sub> O)	
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

# DC AXIAL FAN 20x20x06mm



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 #28 AWG  
 Weight: 4 g      Packing: 400PCS/CTN



SS

SF

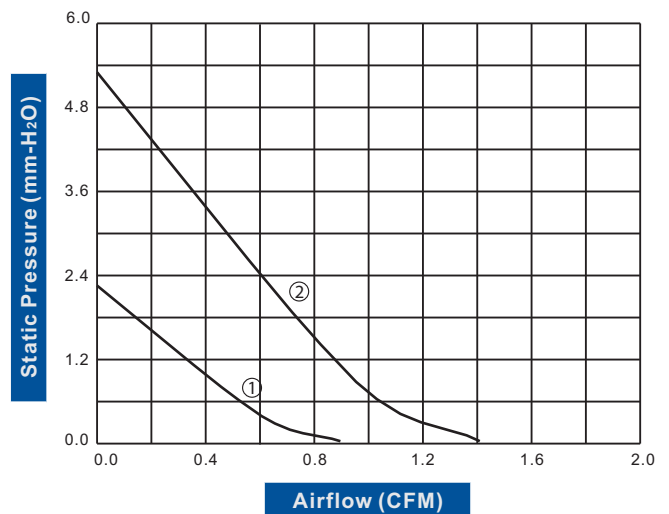
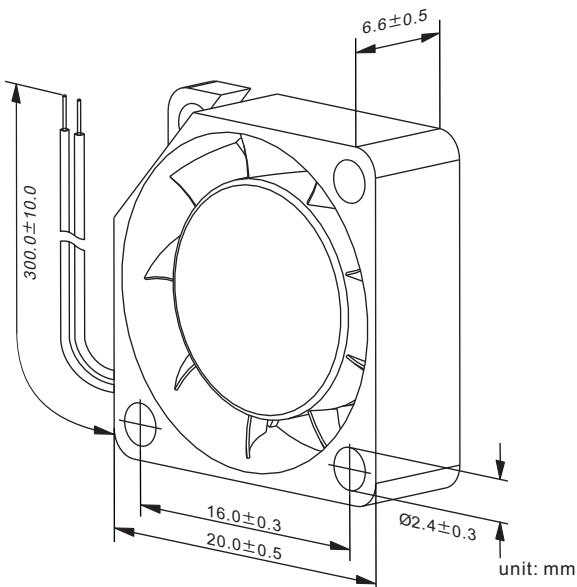


DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 25x25x10mm



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 #28 AWG  
 Weight: 6 g      Packing: 400PCS/CTN



SS

SF

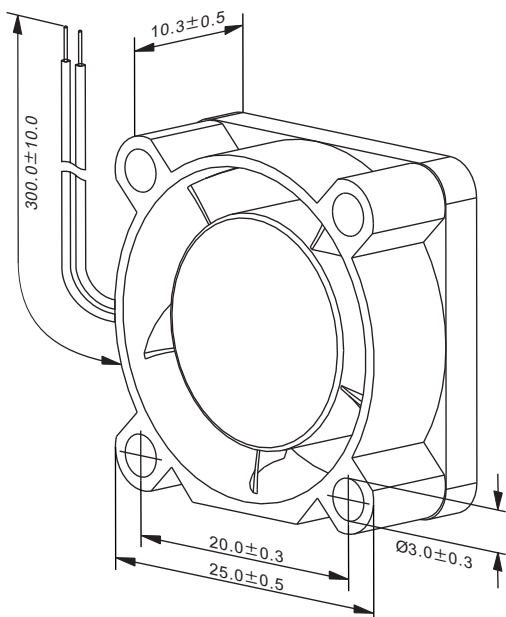


DC Axial Fans

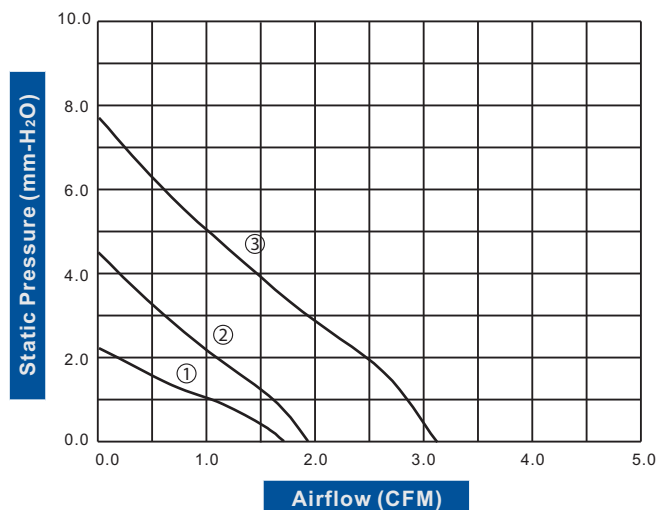
Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD2510B05W3-71	5	4.0~5.5	1.70	2.20	19.90	7,000	100	0.50	B,S	①
FD2510B05W7-71	5	4.0~5.5	1.90	4.50	24.70	10,000	160	0.80	B,S	②
FD2510B05W9-71	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



unit: mm





# DC AXIAL FAN 30x30x06mm



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 #28 AWG  
 Weight: 5 g      Packing: 600PCS/CTN



SS

SF

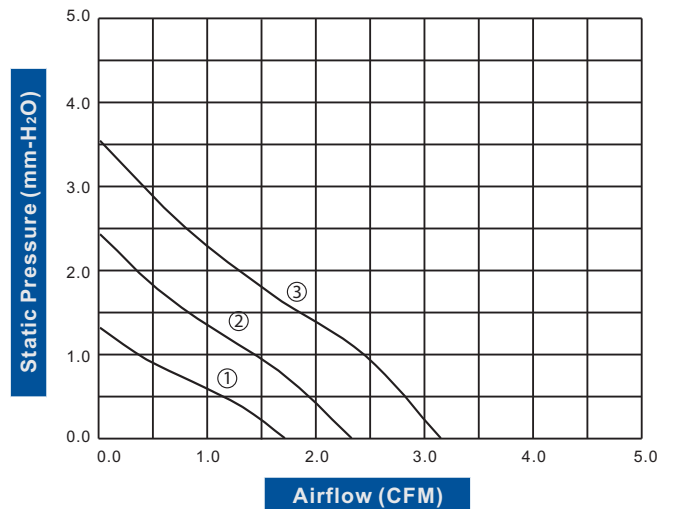
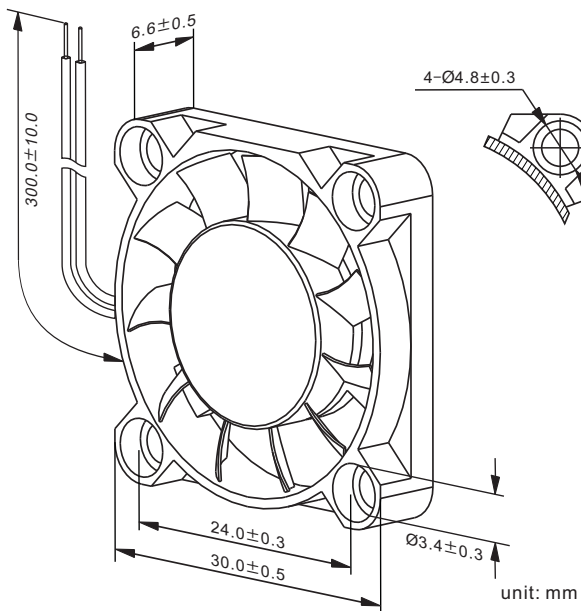


DC Axial Fans

Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 30x30x10mm



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 #28 AWG  
 Weight: 7 g      Packing: 600PCS/CTN



SS

SF

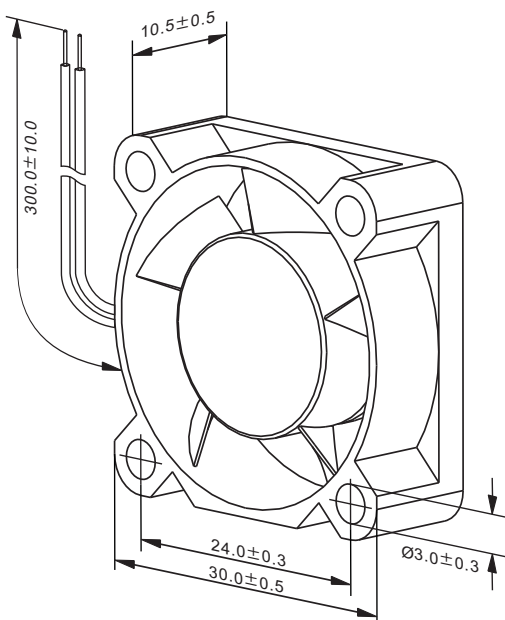


DC Axial Fans

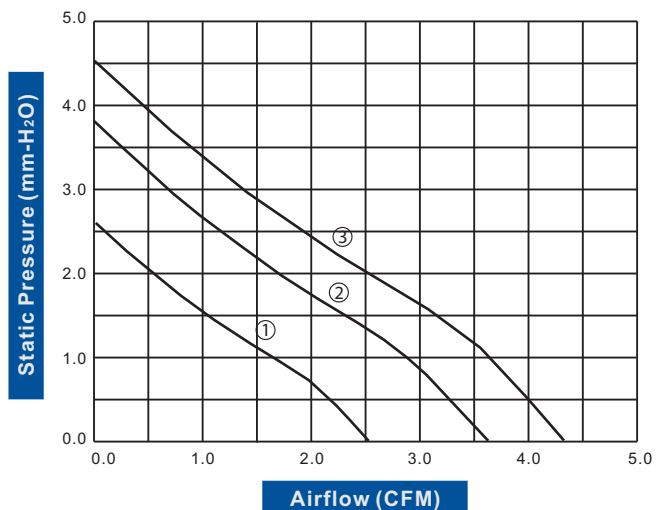
Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD3010B05W3-71	5	4.0~5.5	2.50	2.60	19.00	5,500	100	0.50	B,L,S	①
FD3010B05W7-71	5	4.0~5.5	3.60	3.80	22.90	8,000	180	0.90	B,L,S	②
FD3010B05W9-71	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



# DC AXIAL FAN 30x30x10mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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: 8 g      Packing: 600PCS/CTN

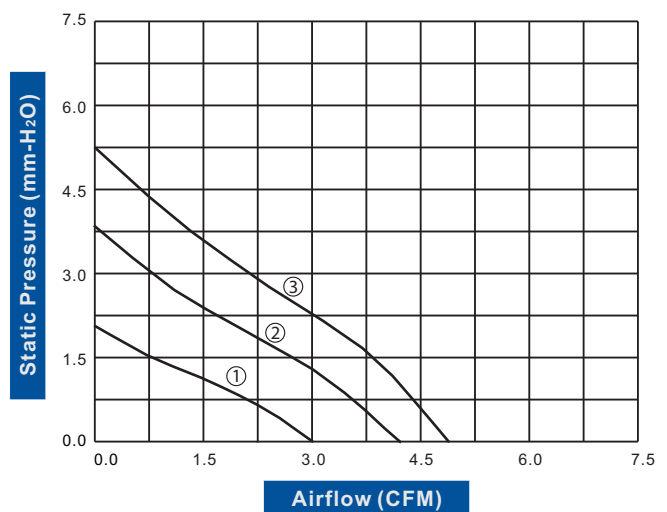
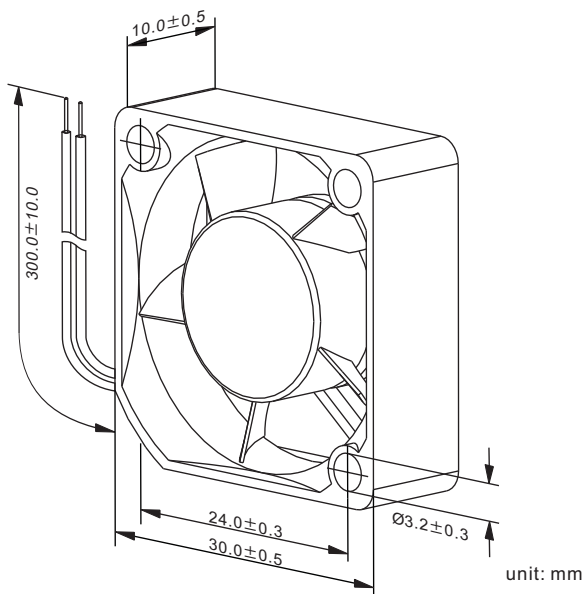


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 35x35x10mm



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 #28 AWG  
 Weight: 9 g      Packing: 400PCS/CTN

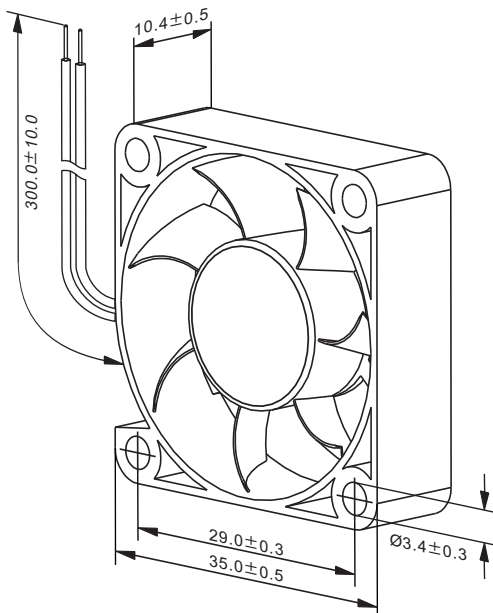


DC Axial Fans

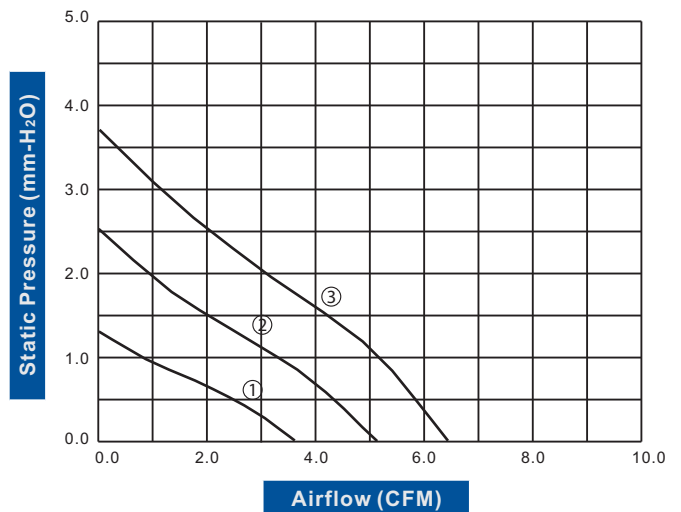
Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD3510B05W3-71	5	4.0~5.5	3.60	1.30	20.00	5,000	130	0.65	B,L,S	①
FD3510B05W5-71	5	4.0~5.5	5.10	2.50	25.50	7,000	220	1.10	B,L,S	②
FD3510B05W7-71	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



# DC AXIAL FAN 40x40x07mm



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 #28 AWG  
 Weight: 11 g      **Packing:** 400PCS/CTN

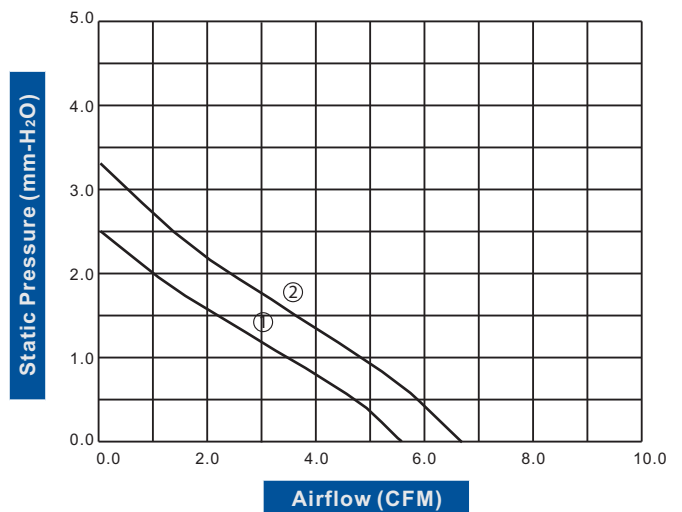
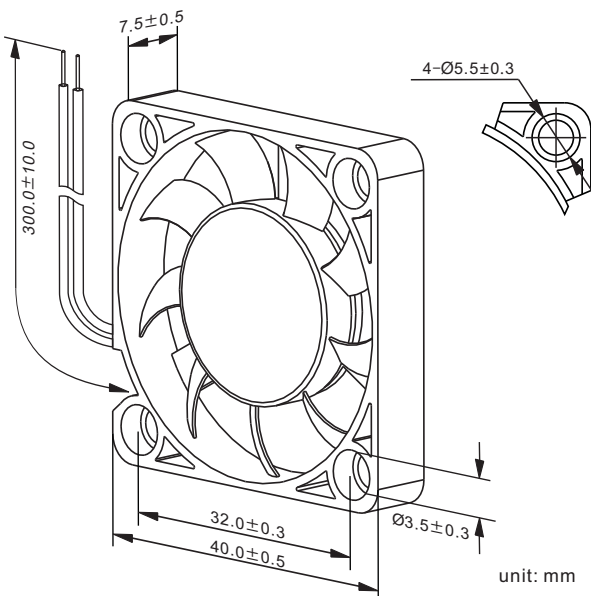


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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: -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: 13 g      Packing: 400PCS/CTN



SS

SF

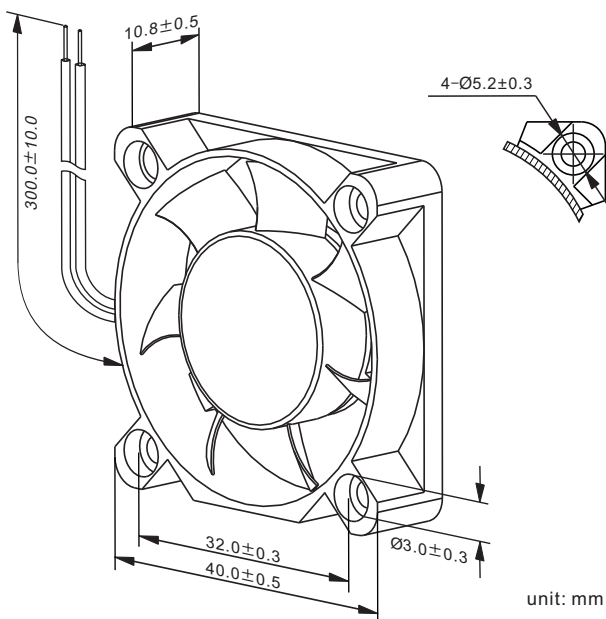


DC Axial Fans

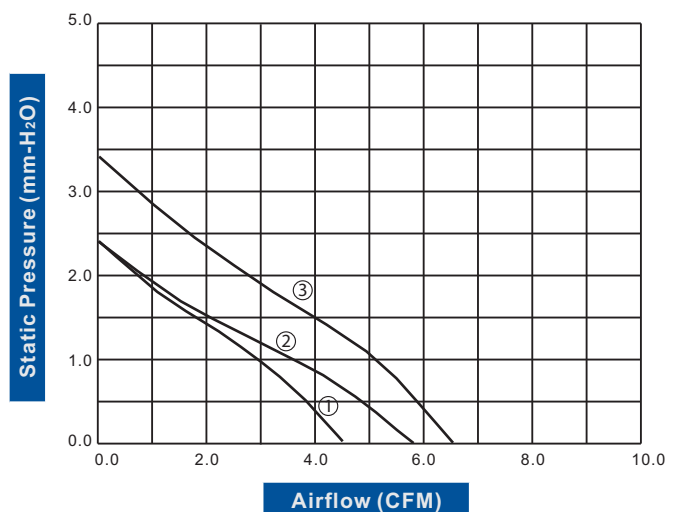
Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD4010B05W3-71	5	4.0~5.5	4.50	2.40	20.80	4,200	80	0.40	B,L,S	①
FD4010B05W5-71	5	4.0~5.5	5.70	2.40	24.50	5,400	120	0.60	B,L,S	②
FD4010B05W7-71	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



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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #28 AWG  
 Weight: 11 g      Packing: 400PCS/CTN

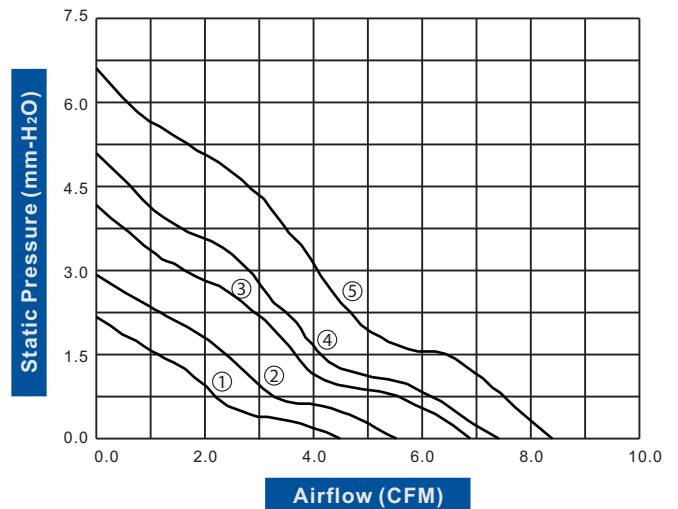
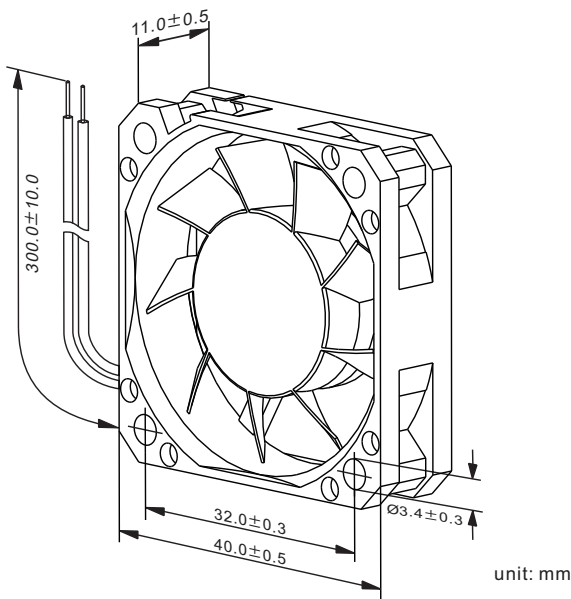


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 40x40x10mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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: 11 g      Packing: 400PCS/CTN



**ES** **IP** **SF**

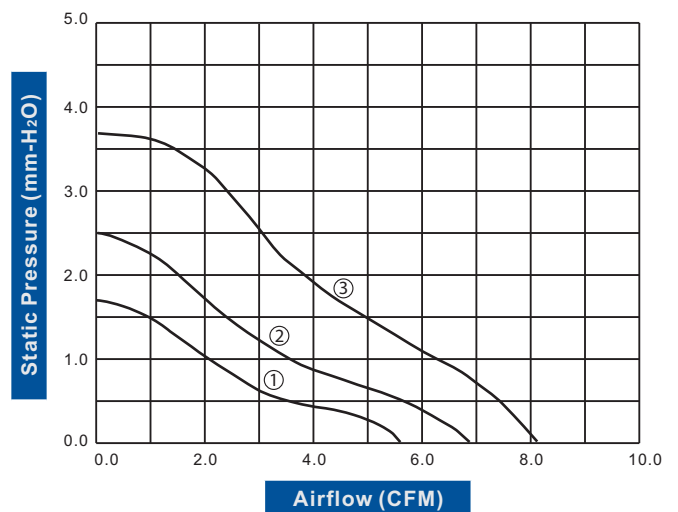
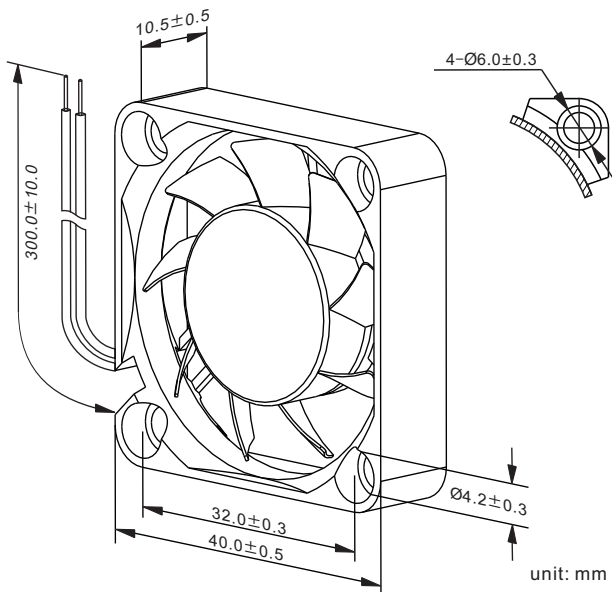


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #28 AWG  
 Weight: 14 g      Packing: 400PCS/CTN

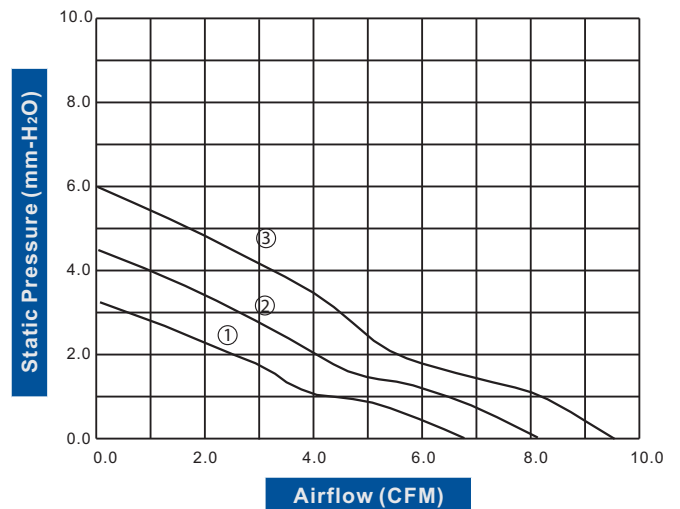
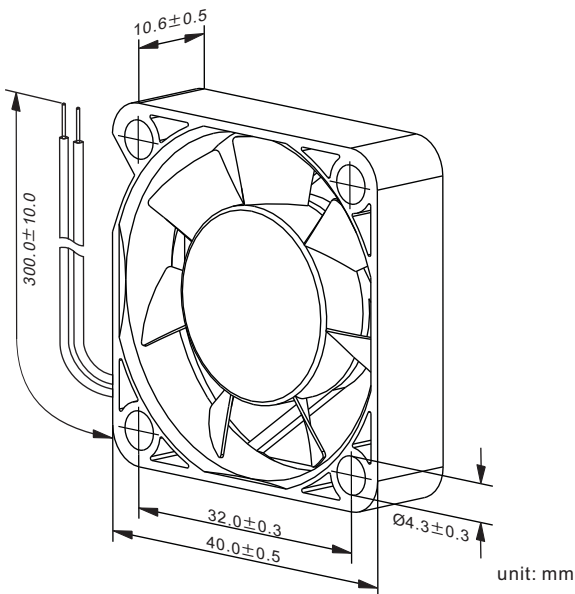


DC Axial Fans

Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #28 AWG  
 Weight: 17 g      Packing: 400PCS/CTN

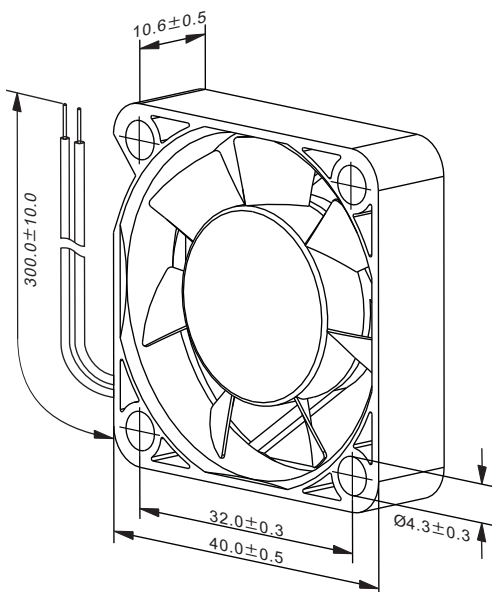


DC Axial Fans

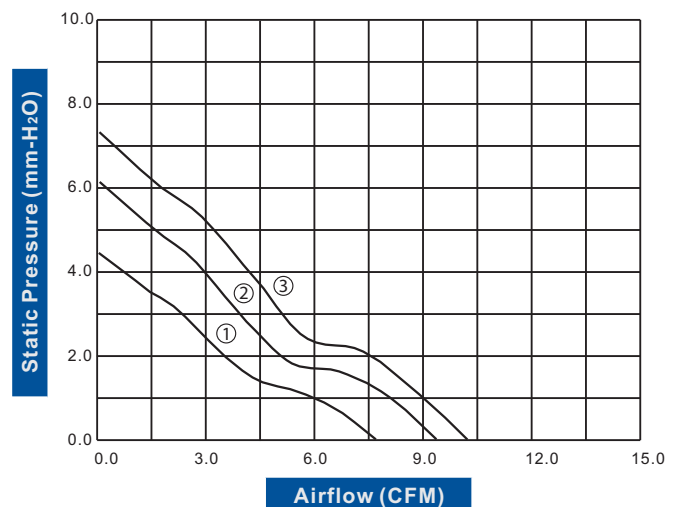
Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD4010B05W3-84	★	5	4.0~5.75	7.70	4.40	28.10	6,400	80	0.40	B,F	①
FD4010B05W5-84	★	5	4.0~5.75	9.30	6.10	32.50	7,500	130	0.65	B,F	②
FD4010B05W7-84	★	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



unit: mm



# DC AXIAL FAN 40x40x20mm



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: 23 g      Packing: 200PCS/CTN

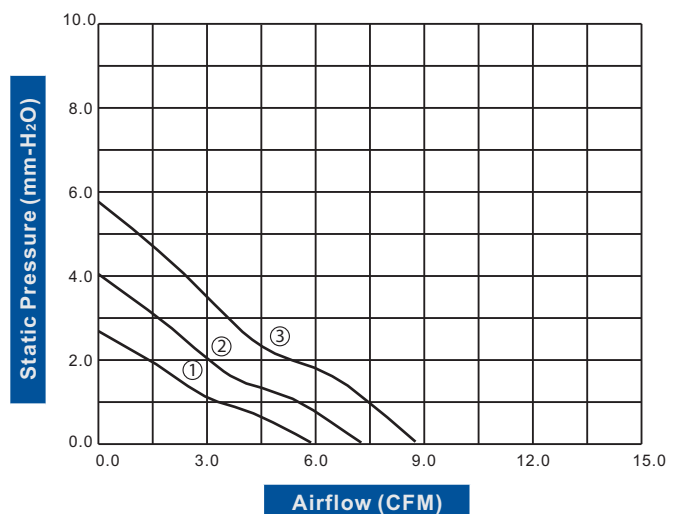
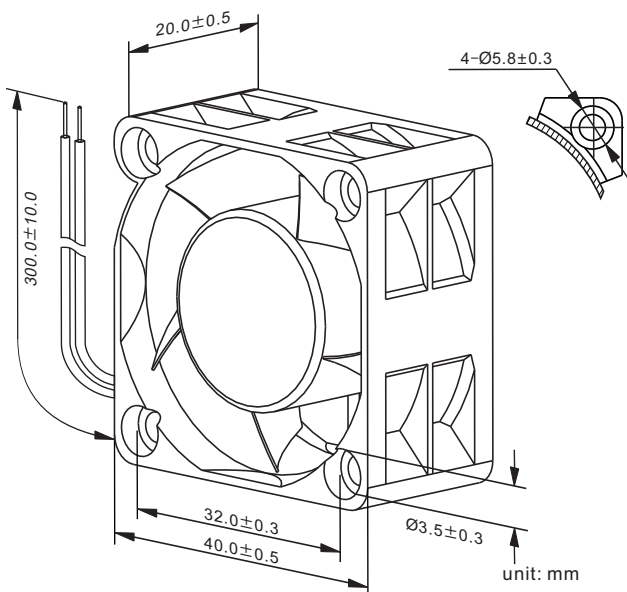


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 40x40x20mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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: 25 g      Packing: 200PCS/CTN



ES

IP

SF

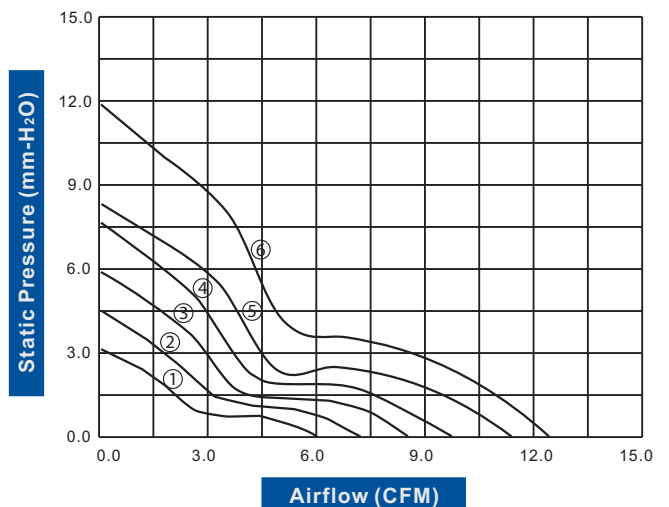
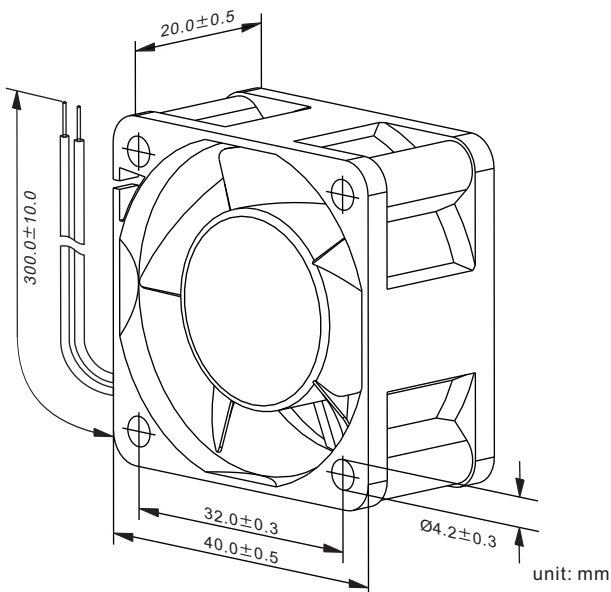


DC Axial Fans

Model Number	Voltage (VDC)	Op. Voltage (VDC)	AirFlow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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	★	4.5~5.5	9.70	7.80	28.60	8,000	180	0.90	B,S	④
FD4020B05W9-82	★	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	★	8.0~13.8	9.70	7.80	28.60	8,000	90	1.08	B,S	④
FD4020B12W9-82	★	8.0~13.8	11.30	8.40	32.50	9,000	100	1.20	B,S	⑤
FD4020B12W11-82	★	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





# DC AXIAL FAN 40x40x28mm



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 #26 AWG  
 Weight: 45 g      Packing: 400PCS/CTN



SS

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SF

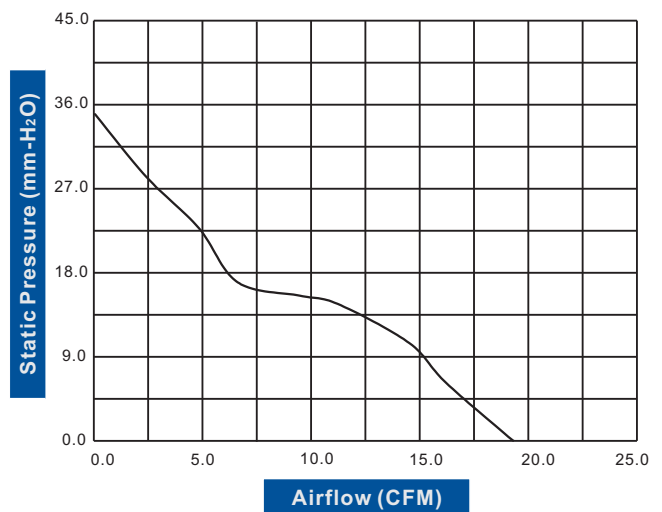
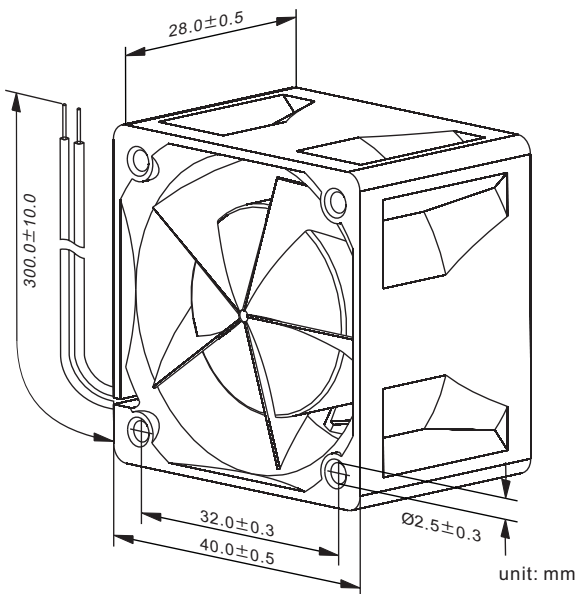


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 40 g      Packing: 400PCS/CTN

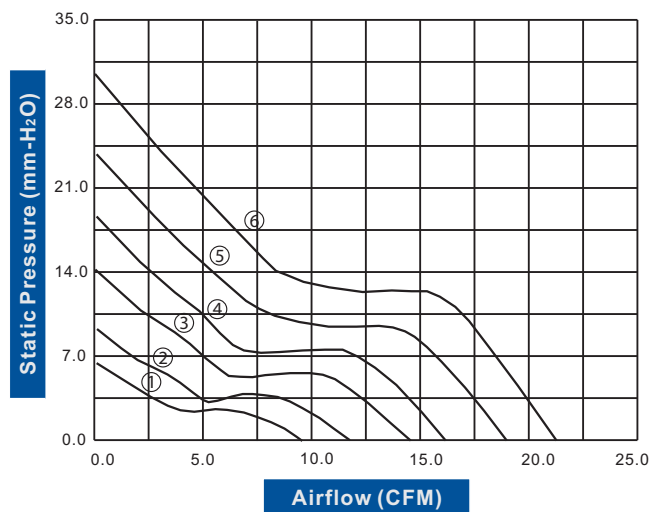
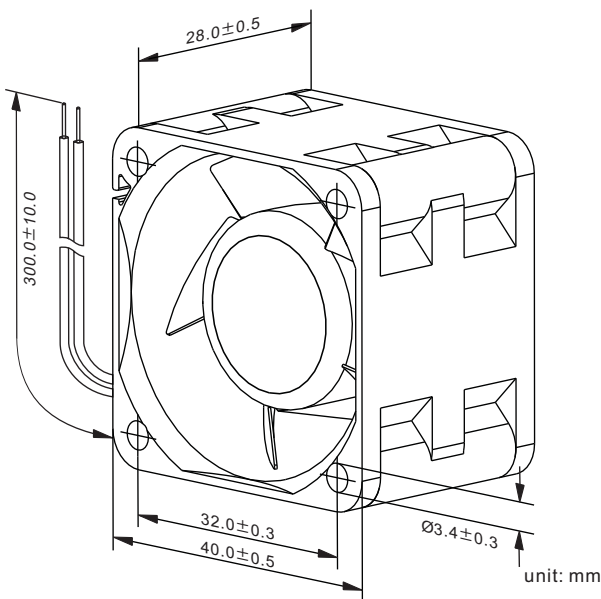


- High Airflow
- High Static Pressure

Model Number		Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 47 g      Packing: 400PCS/CTN



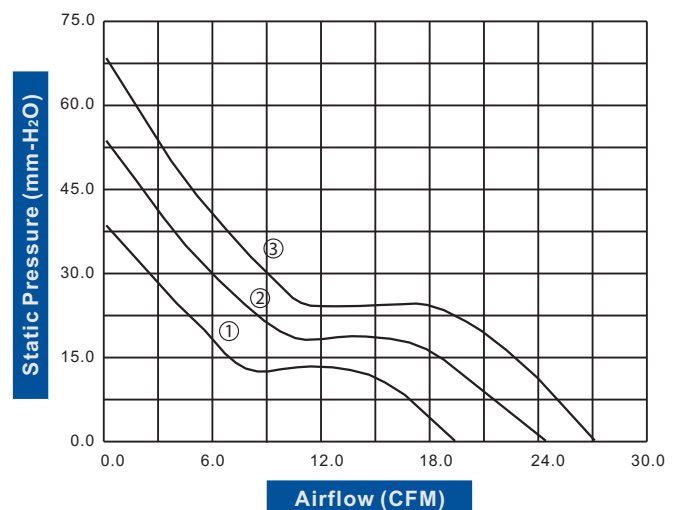
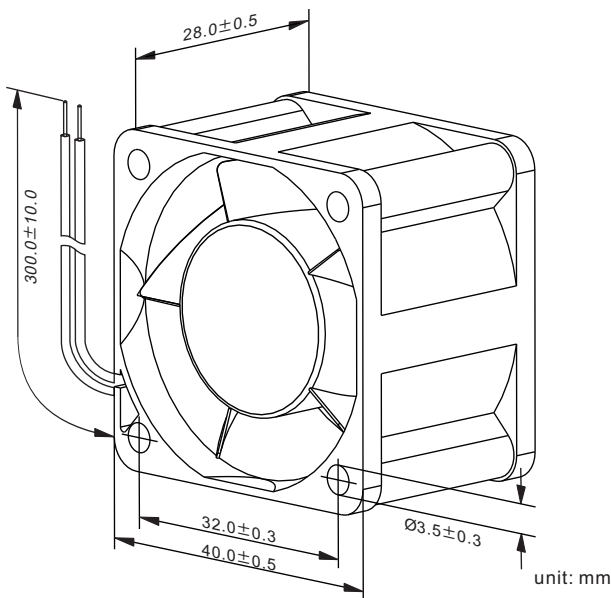
**ES** **IP** **SF**

- High Airflow
- Extremely High Static Pressure

Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 16 g      Packing: 400PCS/CTN



SS

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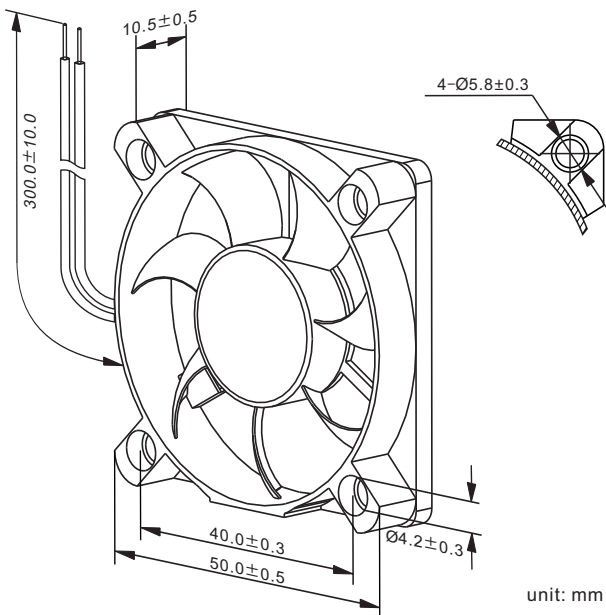


DC Axial Fans

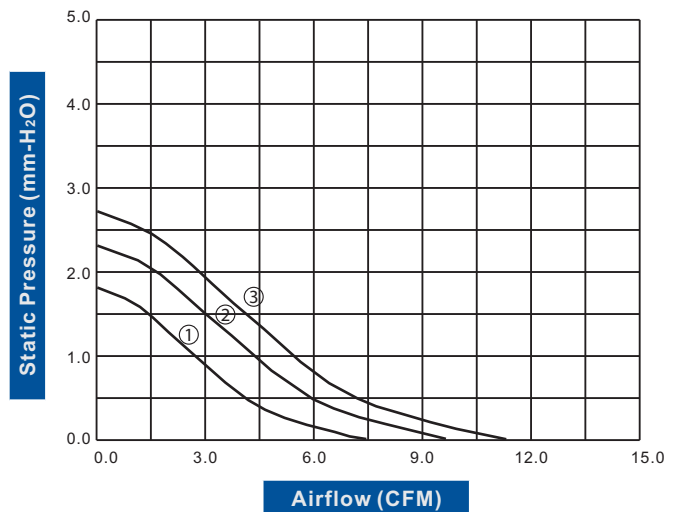
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD5010B05W3-71	5	4.0~5.5	7.40	1.80	20.50	3,500	120	0.60	B,L,S	①
FD5010B05W5-71	5	4.0~5.5	9.60	2.30	25.70	4,500	180	0.90	B,L,S	②
FD5010B05W7-71	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



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°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #28 AWG  
 Weight: 19 g      Packing: 400PCS/CTN



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

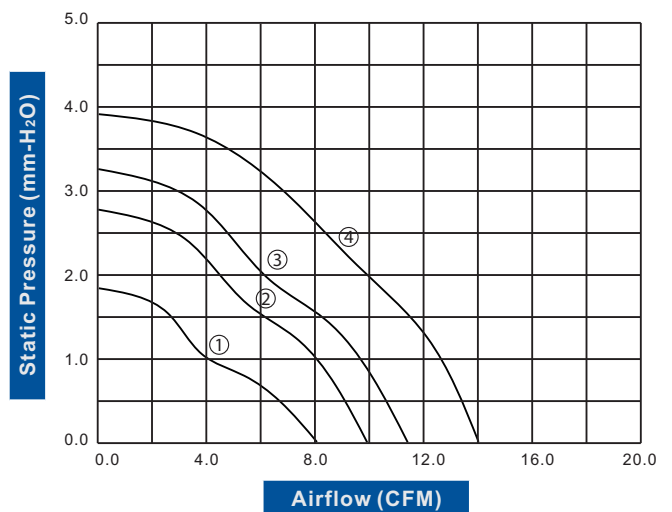
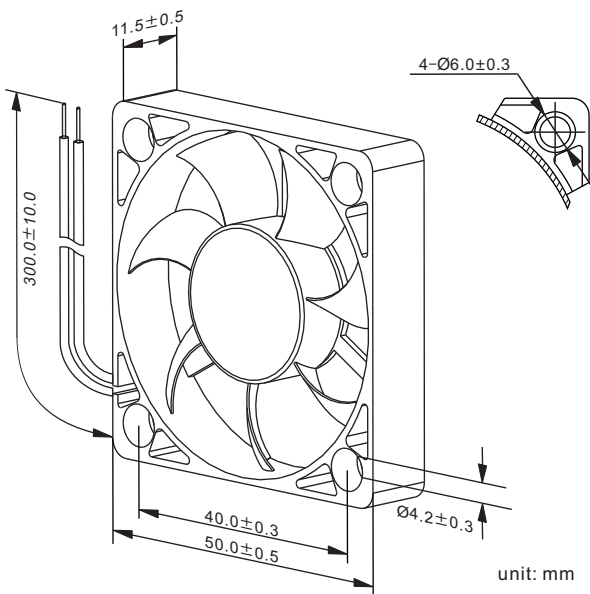


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #28 AWG  
 Weight: 18 g      **Packing:** 400PCS/CTN



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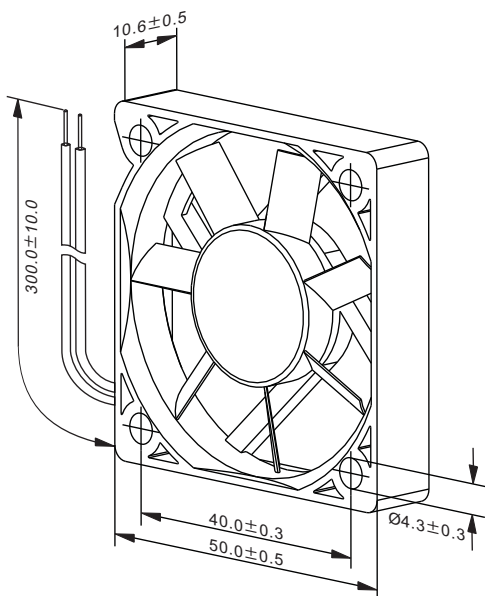


DC Axial Fans

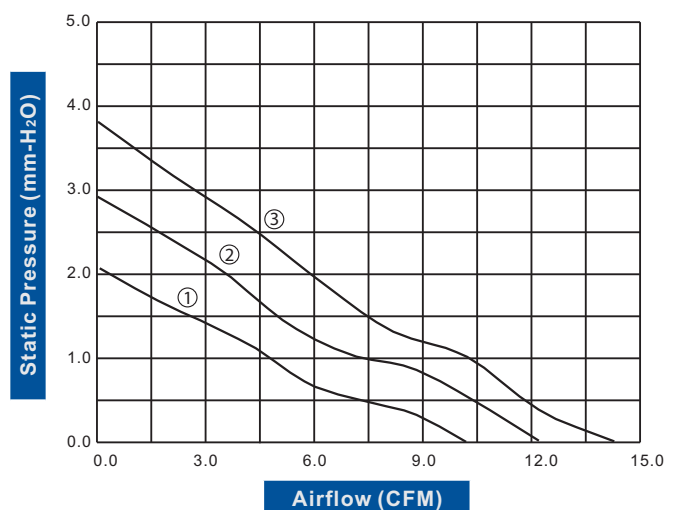
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD5010B05W5-83	5	4.0~5.75	10.10	2.10	23.10	4,000	110	0.55	B,F	①
FD5010B05W7-83	5	4.0~5.75	12.10	2.90	28.10	4,700	180	0.90	B,F	②
FD5010B12W5-83	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



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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #28 AWG  
 Weight: 21 g      Packing: 400PCS/CTN

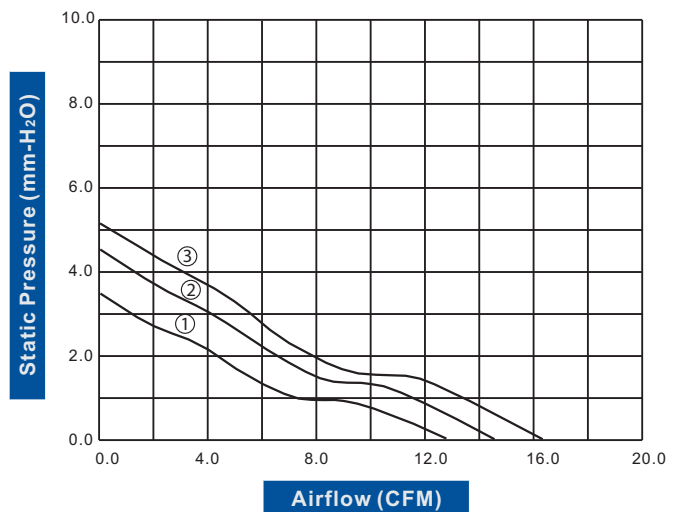
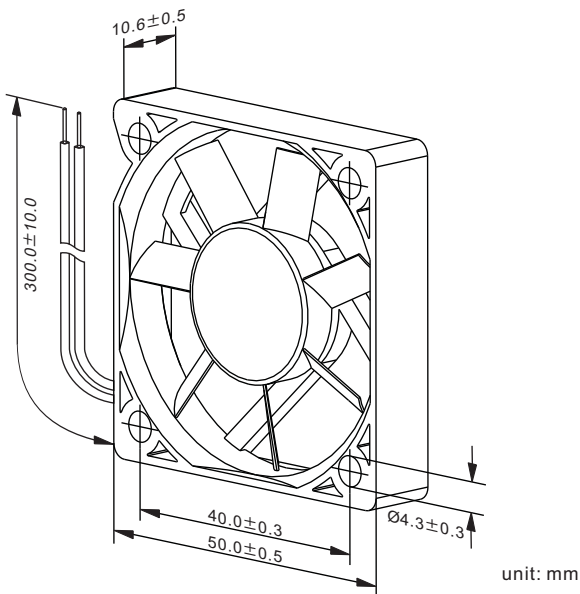


DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 50x50x15mm



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: 27 g      Packing: 200PCS/CTN



SS

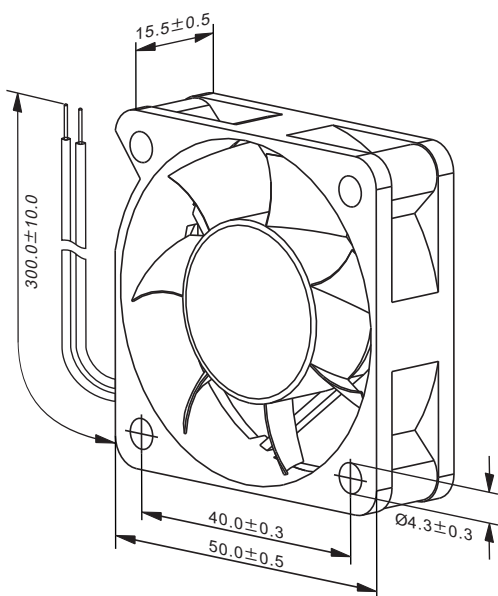
SF

DC Axial Fans

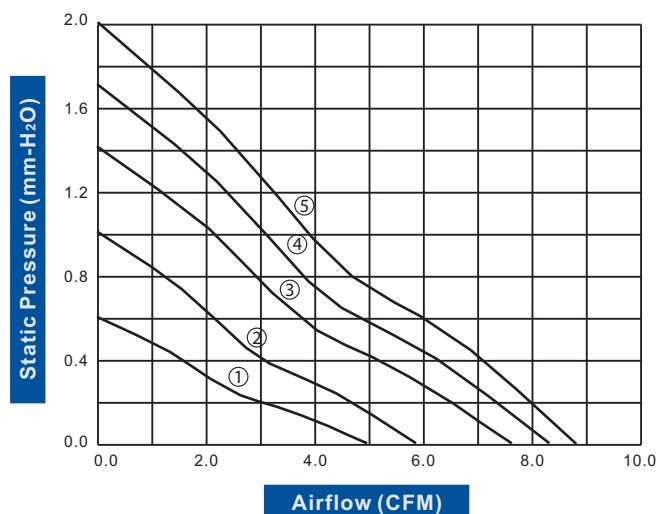
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD5015B05W5-71	5	4.0~5.5	5.00	0.60	18.50	2,000	120	0.60	B,L,S	①
FD5015B05W7-71	5	4.0~5.5	5.90	1.00	19.50	2,500	180	0.90	B,L,S	②
FD5015B05W9-71	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



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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 29 g      **Packing:** 200PCS/CTN

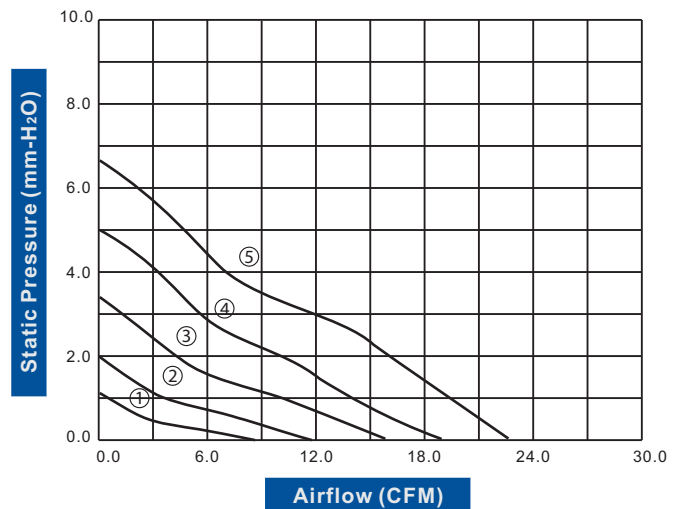
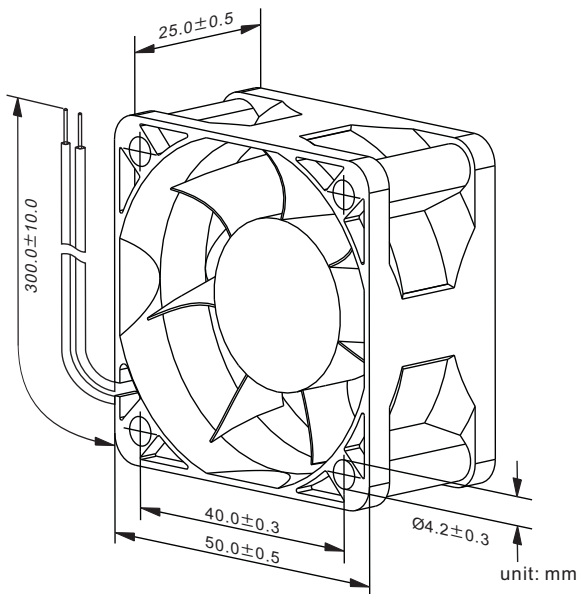


DC Axial Fans

Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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	6,500	290	3.48	B	⑤
FD5025B24W7-81	★	24	12.0~27.6	18.60	5.00	5,500	110	2.64	B,S	④
FD5025B24W9-81	★	24	12.0~25.2	22.40	6.70	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



# DC AXIAL FAN 60x60x10mm



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: 24 g      Packing: 300PCS/CTN



SS

SF

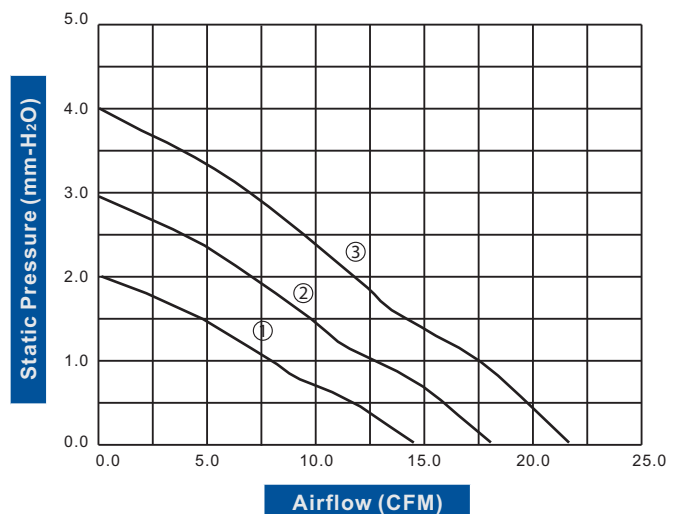
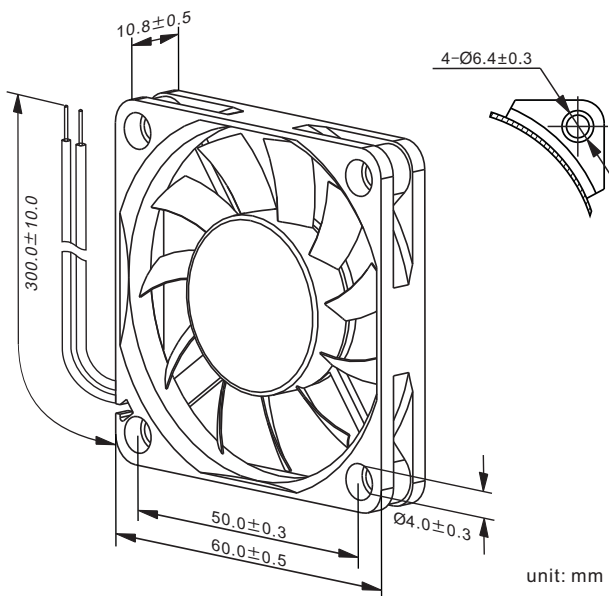


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 60x60x10mm



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 #26 AWG  
 Weight: 28 g      **Packing:** 300PCS/CTN



ES

SF

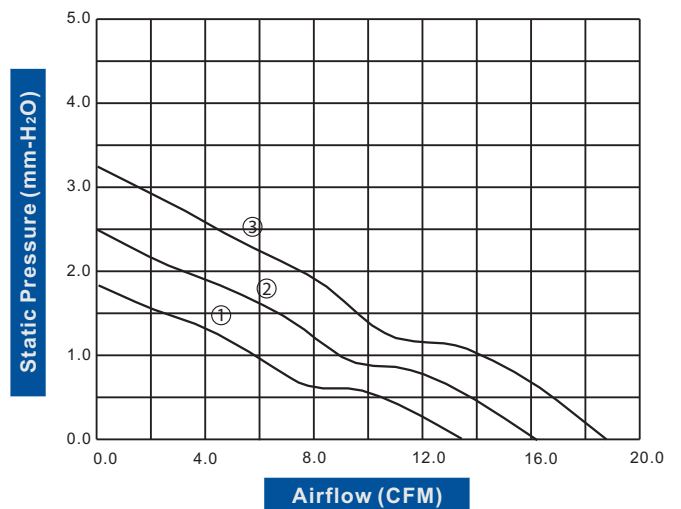
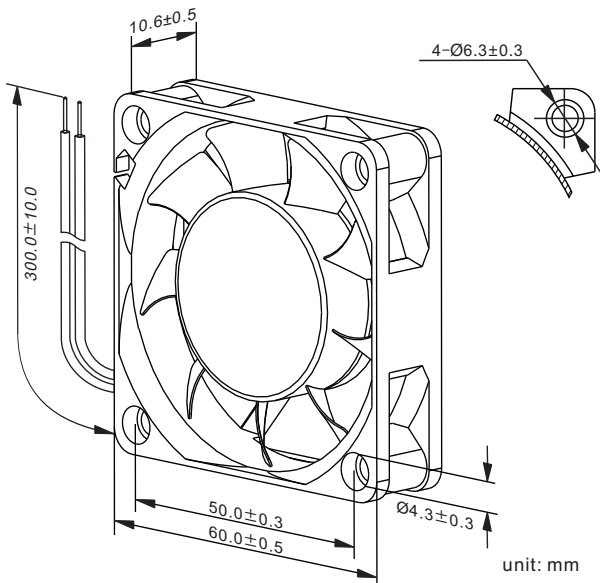


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 60x60x10mm



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 #26 AWG  
 Weight: 28 g      Packing: 300PCS/CTN



ES

SF

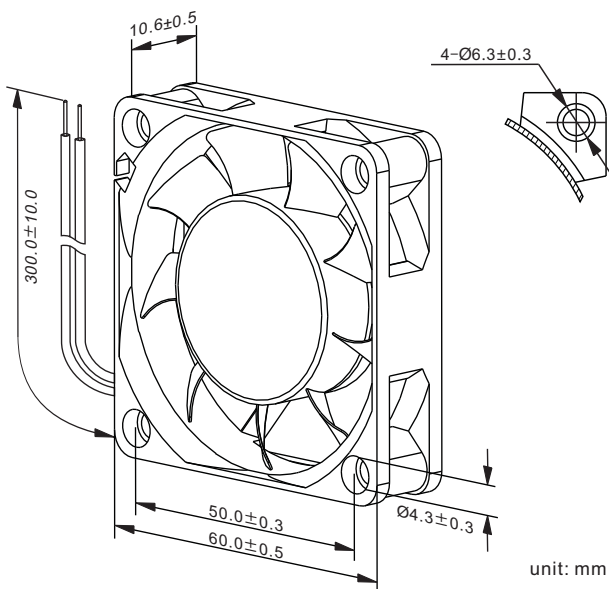


DC Axial Fans

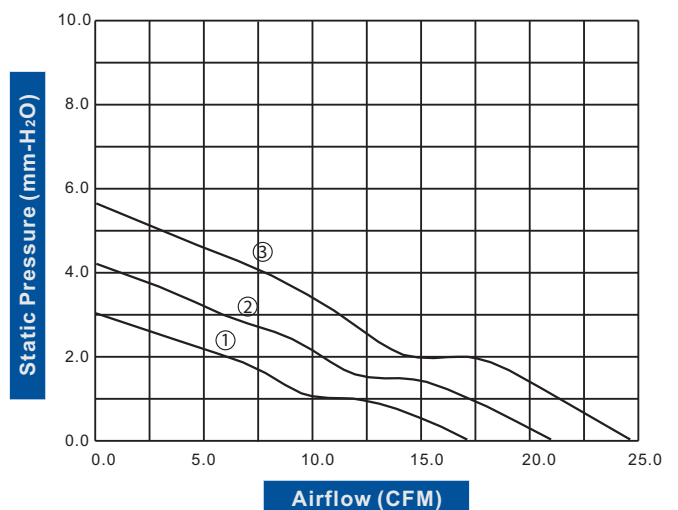
Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD6010B05W3-84	★	5	4.0~5.50	17.20	3.10	30.50	4,000	180	0.90	B,F	①
FD6010B12W3-84	★▲	12	6.0~13.8	17.20	3.10	30.50	4,000	90	1.08	B,F	①
FD6010B12W5-84	★▲	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



# DC AXIAL FAN 60x60x15mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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: 33 g      Packing: 300PCS/CTN

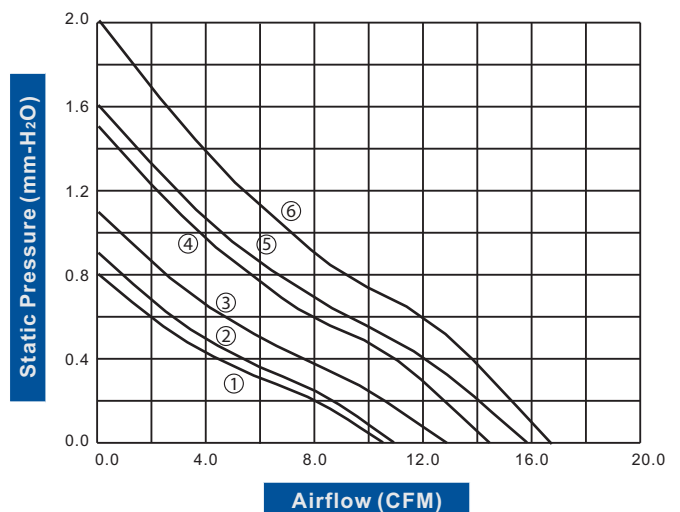
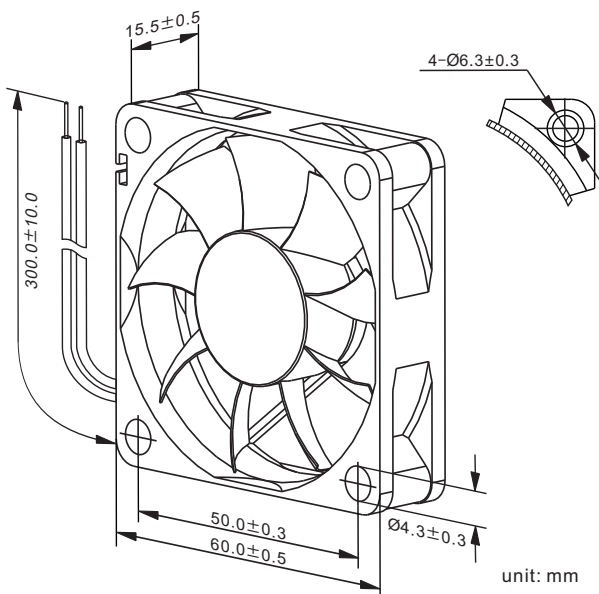


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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





# DC AXIAL FAN 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 41 g      Packing: 300PCS/CTN



ES

SF

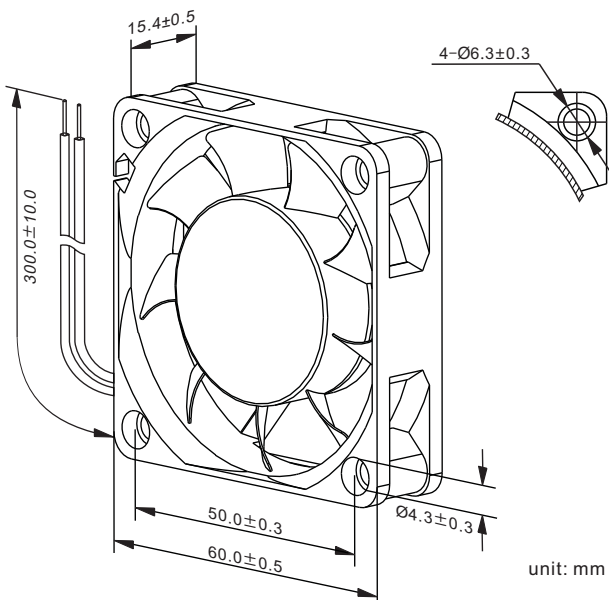


DC Axial Fans

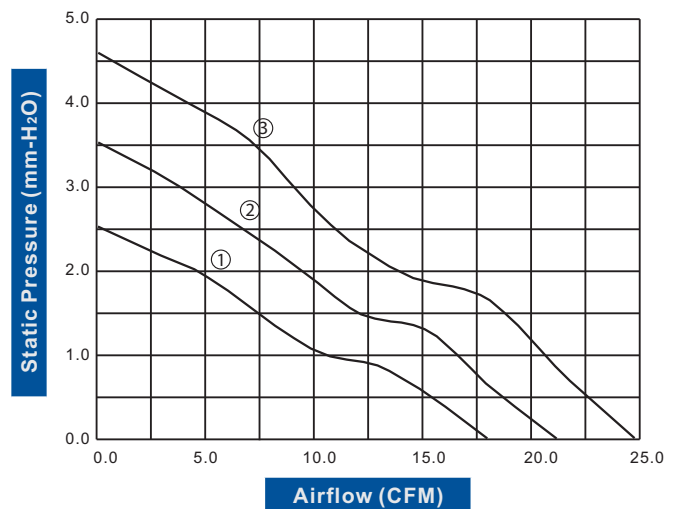
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD6015B05W3-83	5	4.0~5.75	17.80	2.50	24.10	3,300	160	0.80	B,F	①
FD6015B05W5-83	5	4.0~5.75	21.20	3.50	30.00	4,000	220	1.10	B,F	②
FD6015B05W7-83	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



unit: mm



# DC AXIAL FAN 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 41 g      **Packing:300PCS/CTN**

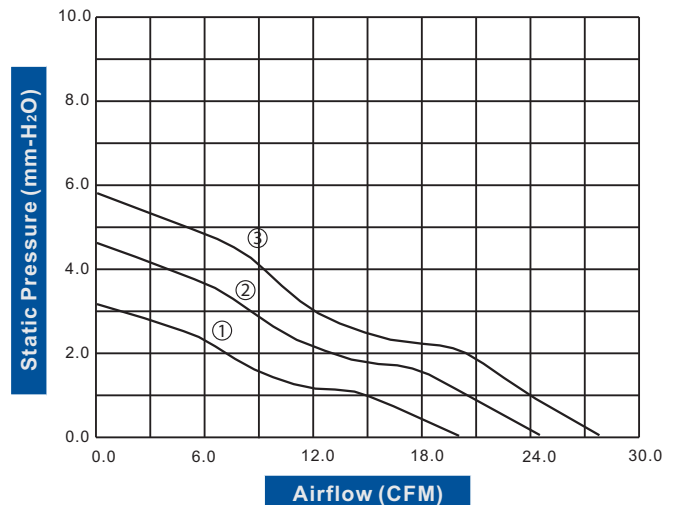
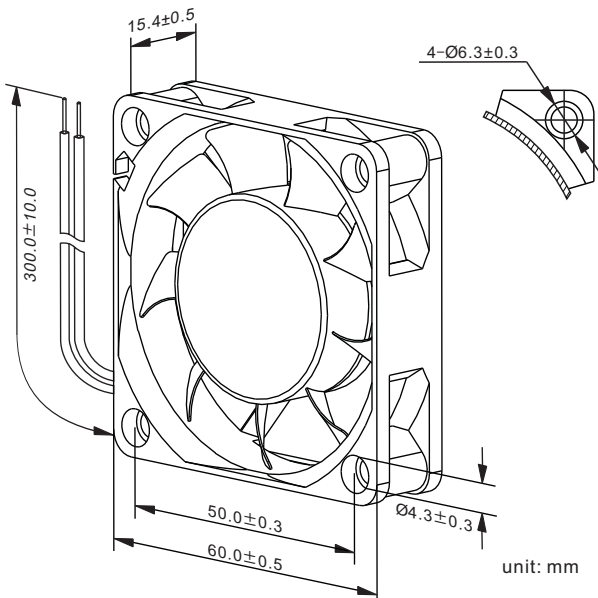


DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 60x60x20mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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: 44 g      **Packing:** 200PCS/CTN



SS

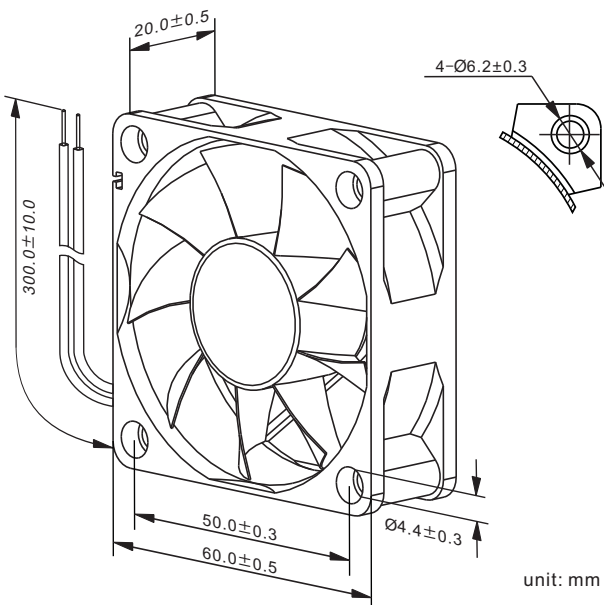
SF

DC Axial Fans

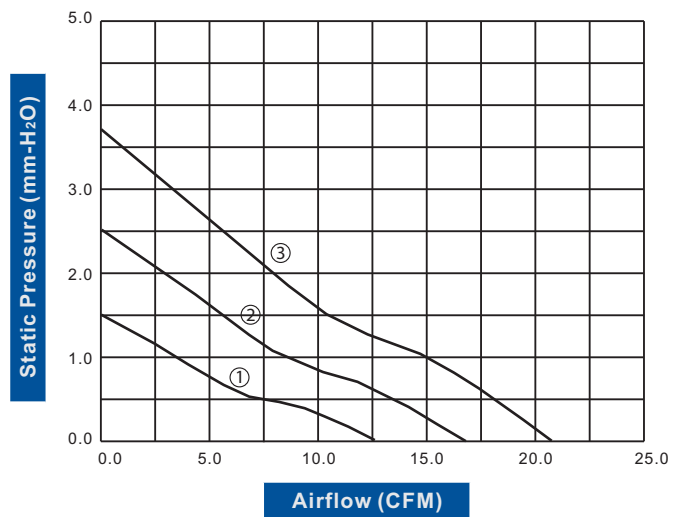
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD6020B12W2-71	12	10.8~13.2	12.50	1.50	19.70	2,500	80	0.96	B,L,S	①
FD6020B12W3-71	12	10.8~13.2	16.70	2.50	23.50	3,300	120	1.44	B,L,S	②
FD6020B12W5-71	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



unit: mm



# DC AXIAL FAN 60x60x20mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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 #26 AWG  
 Weight:43 g      Packing: 200PCS/CTN



ES

IP

SF

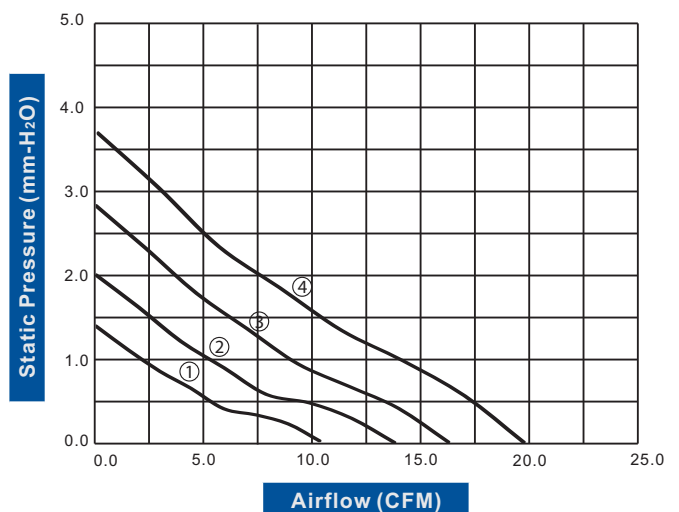
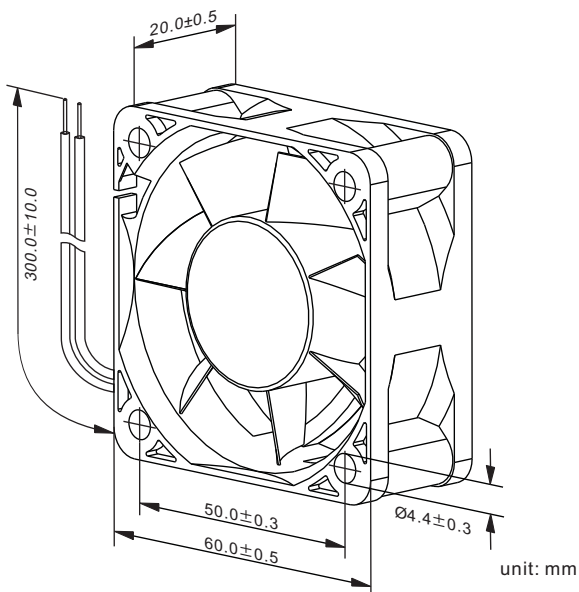


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 56 g      Packing: 200PCS/CTN



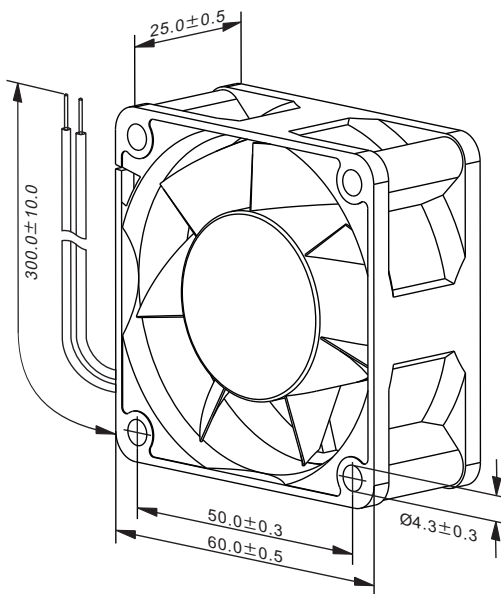
**ES** **IP** **SF**

DC Axial Fans

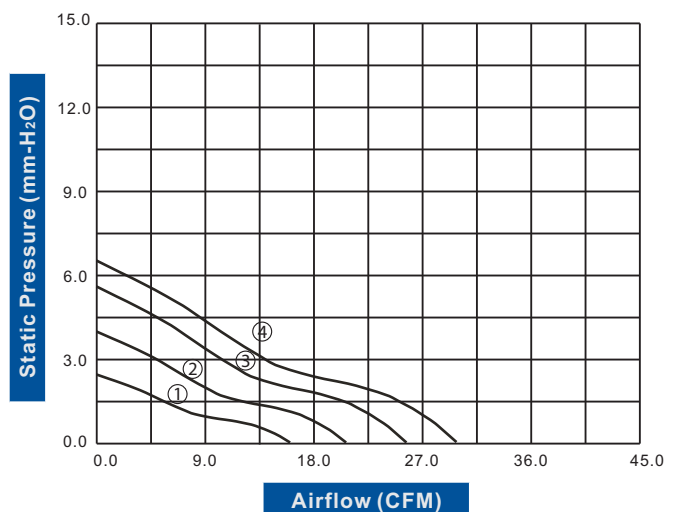
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD6025B12W3-21	▲ 12	7.0~13.2	16.00	2.40	23.10	2,800	80	0.96	B	①
FD6025B12W5-21	▲ 12	7.0~13.2	20.50	3.90	29.10	3,700	120	1.44	B	②
FD6025B12W7-21	▲ 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



unit: mm



# DC AXIAL FAN 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: -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: 55 g      Packing: 200PCS/CTN



SS

SF

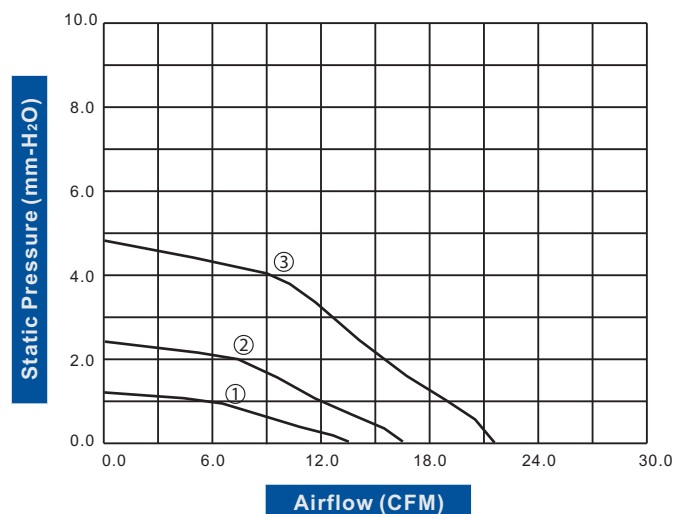
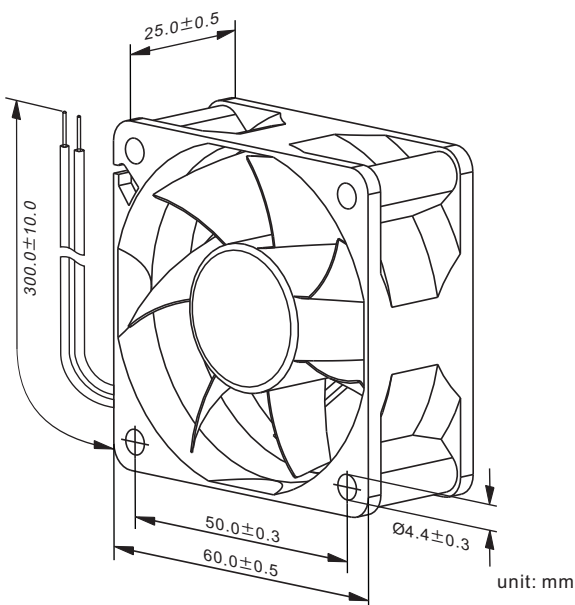


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 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: -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: 48 g      Packing: 200PCS/CTN



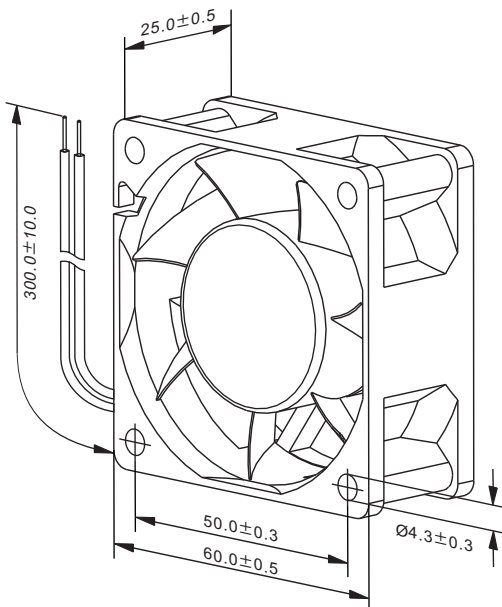
**SS** **IP** **SF**

DC Axial Fans

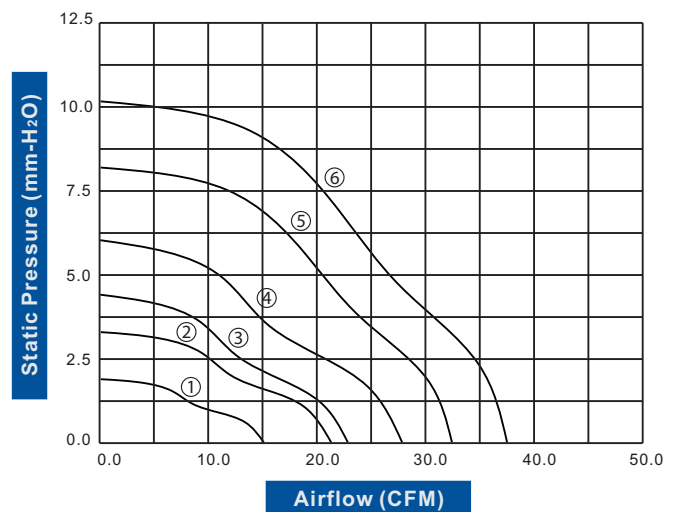
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD6025B12W3-73A	12	10.8~13.2	14.90	1.90	24.40	2,600	220	2.64	B,S	①
FD6025B12W3-73B	12	10.8~13.2	21.00	3.30	31.40	3,400	220	2.64	B,S	②
FD6025B12W5-73A	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



unit: mm





# DC AXIAL FAN 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: -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: 68 g      Packing: 200PCS/CTN



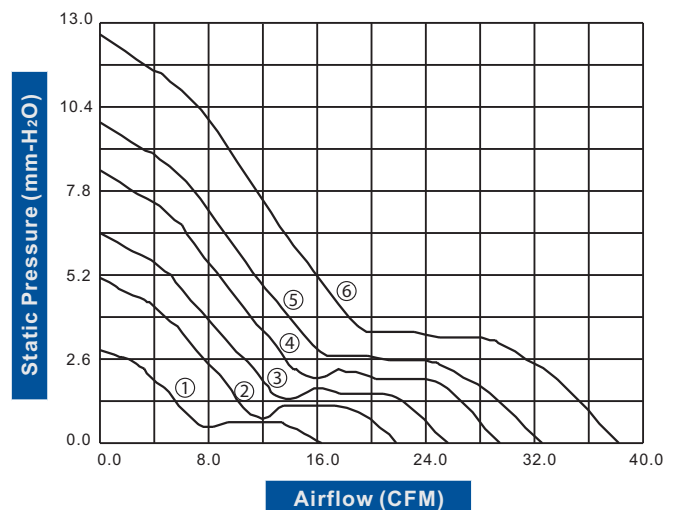
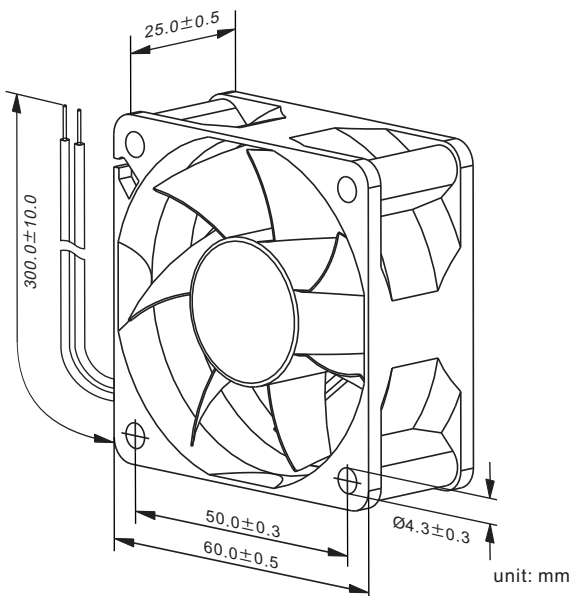
SS IP SF

DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 68 g      **Packing: 200PCS/CTN**

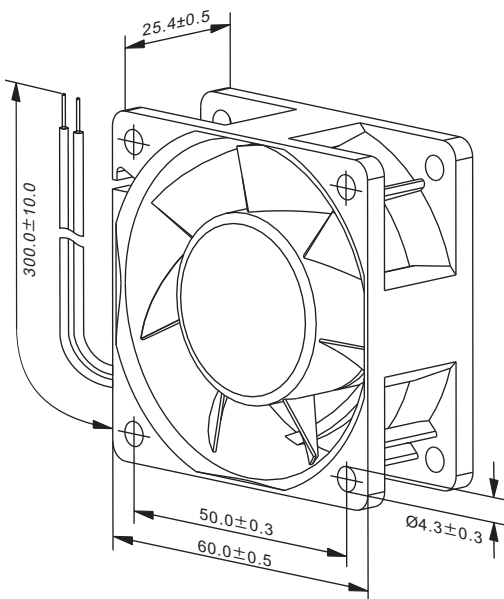


DC Axial Fans

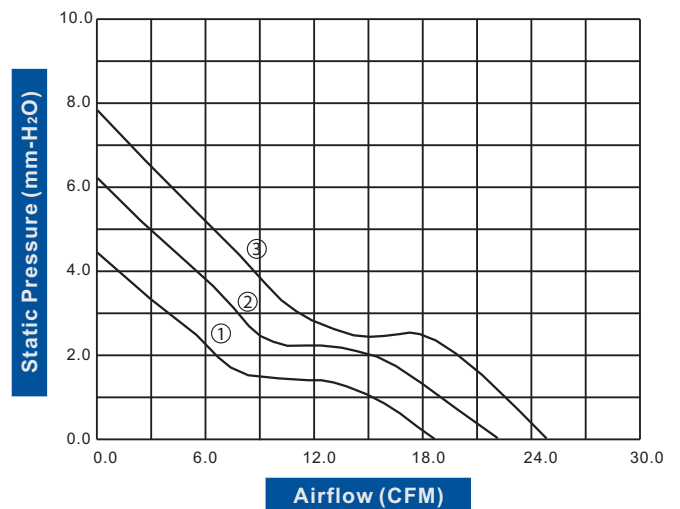
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD6025B12W3-83	12	6.0~13.8	18.10	4.30	27.60	3,500	80	0.96	B,F	①
FD6025B12W5-83	12	6.0~13.8	22.10	6.10	32.00	4,200	100	1.20	B,F	②
FD6025B12W7-83	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



# DC AXIAL FAN 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 79 g      **Packing: 200PCS/CTN**



ES

SF

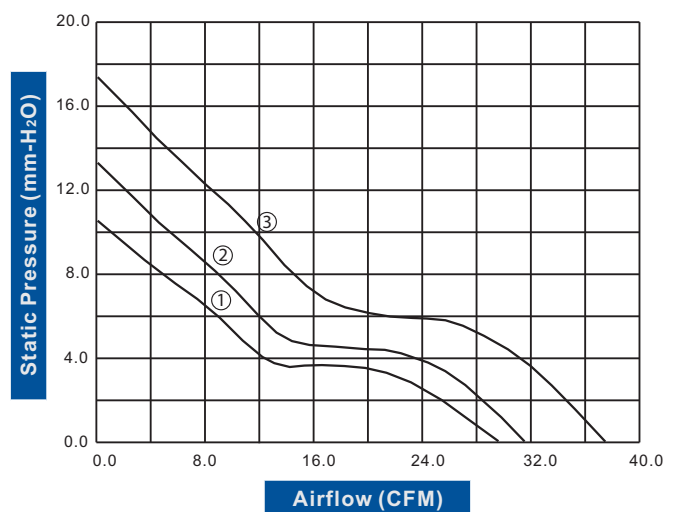
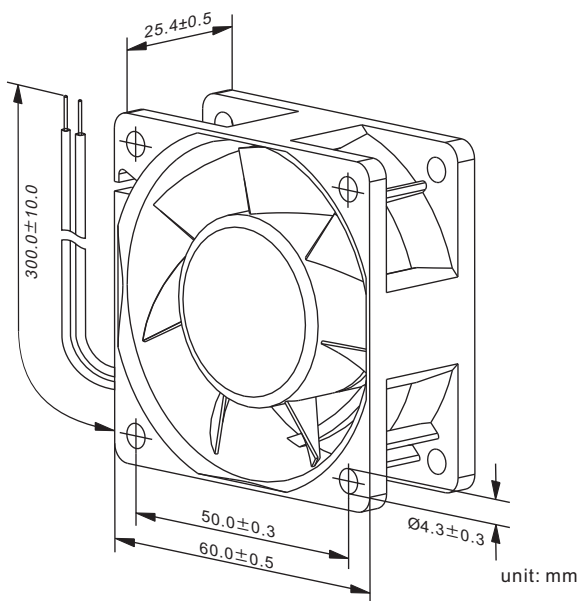


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 85 g      Packing: 200PCS/CTN



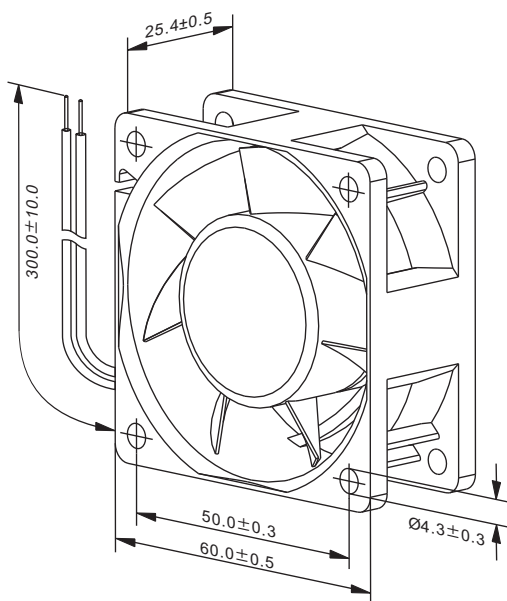
**ES** **IP** **SF**

- High Airflow
- Extremely High Static Pressure

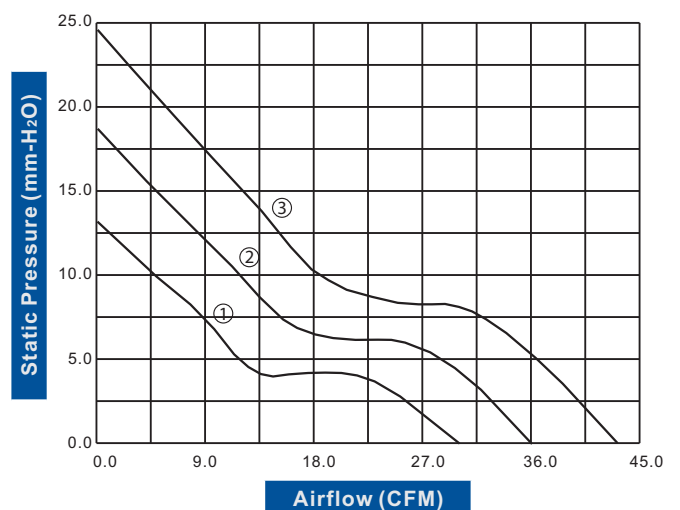
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD6025B12W3-85	★▲ 12	6.0~13.8	30.10	13.20	40.90	5,800	210	2.52	B	①
FD6025B12W5-85	★▲ 12	6.0~13.8	36.00	18.20	45.30	7,000	320	3.84	B	②
FD6025B12W7-85	★▲ 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: 10M $\Omega$ , 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 #26 AWG  
 Weight: 95 g      Packing: 100PCS/CTN



**ES** **IP** **SF**

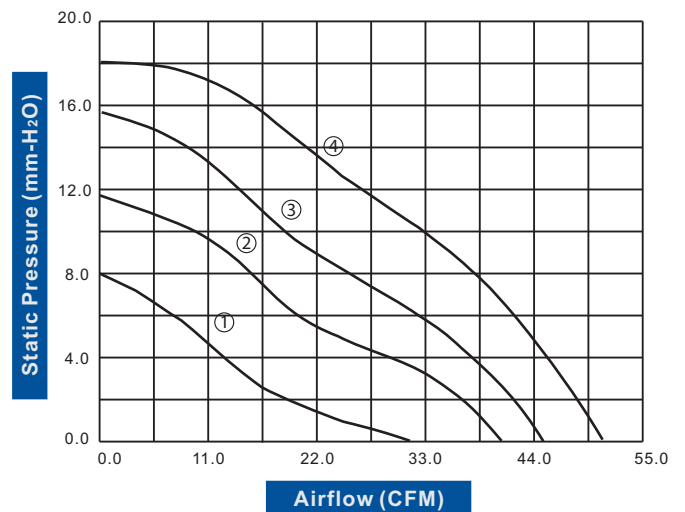
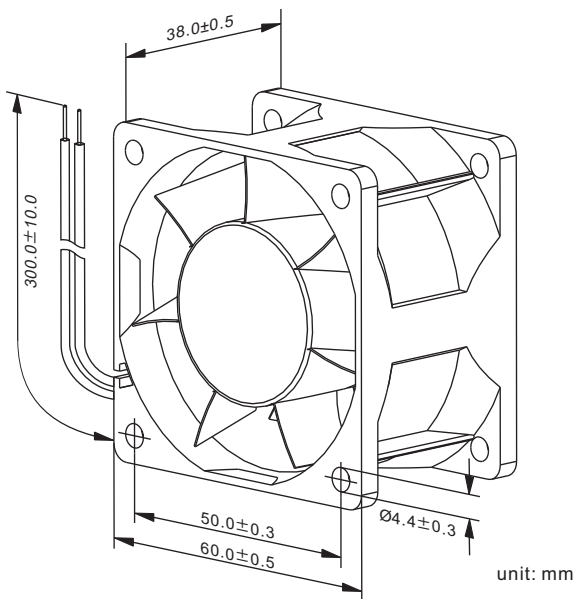
- High Airflow
- High Static Pressure

DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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: -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: 35 g      Packing: 300PCS/CTN



SS

SF

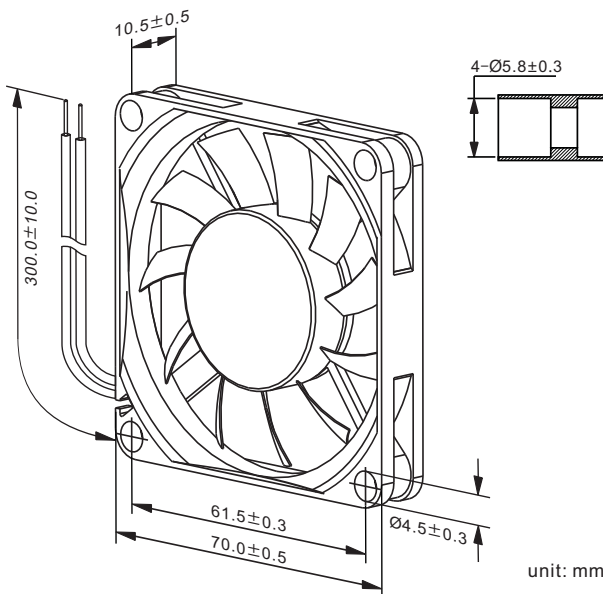


DC Axial Fans

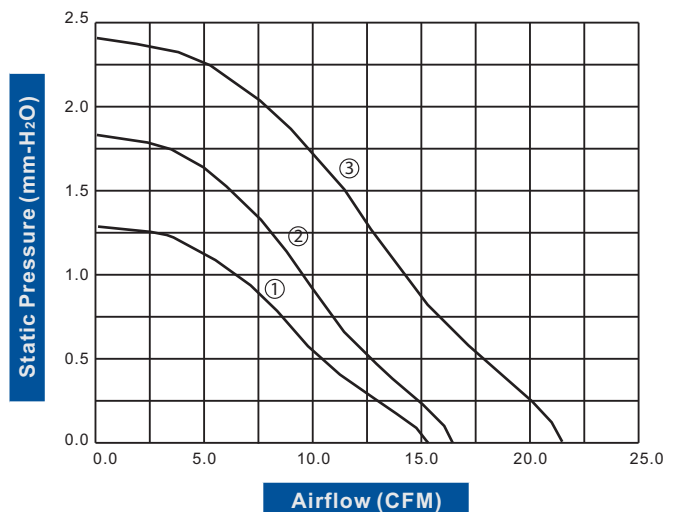
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD7010C12W3-71	12	9.0~13.2	15.10	1.30	24.60	2,500	100	1.20	L,S	①
FD7010C12W5-71	12	9.0~13.2	16.20	1.80	29.00	3,000	140	1.68	L,S	②
FD7010C12W7-71	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



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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 35 g      **Packing: 300PCS/CTN**



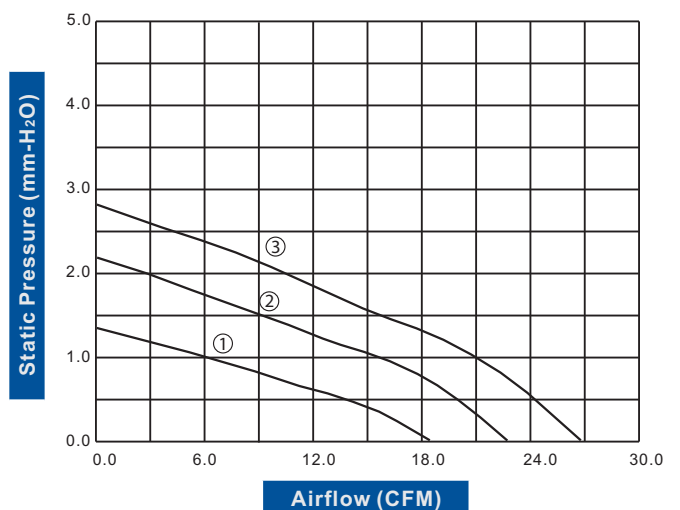
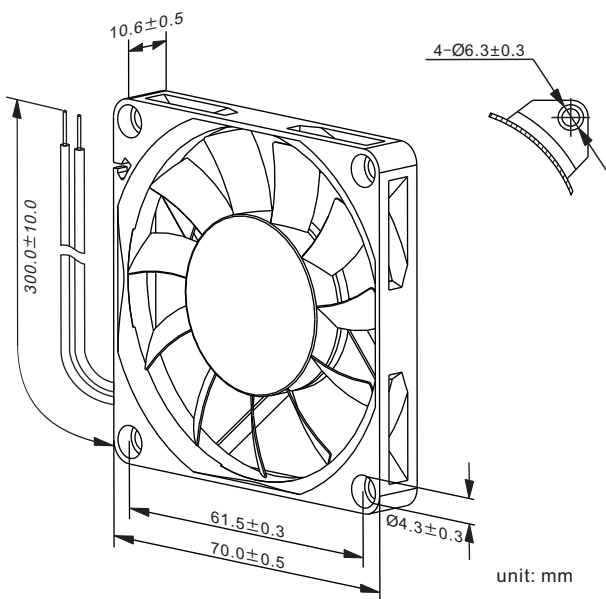
**ES SF**

DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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





# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 37 g      **Packing:** 300PCS/CTN



ES

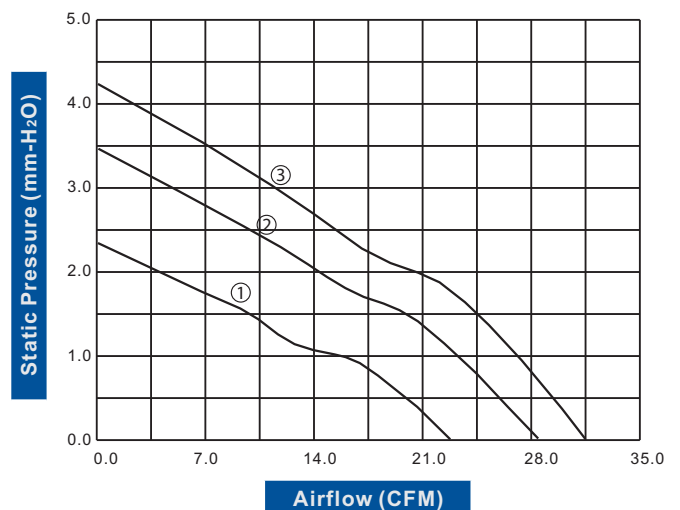
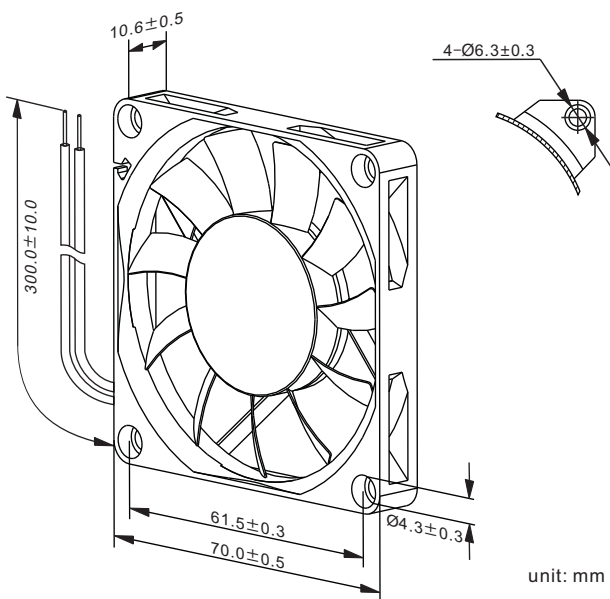
SF

DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 70x70x15mm



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 #26 AWG  
 Weight: 57 g      Packing: 300PCS/CTN

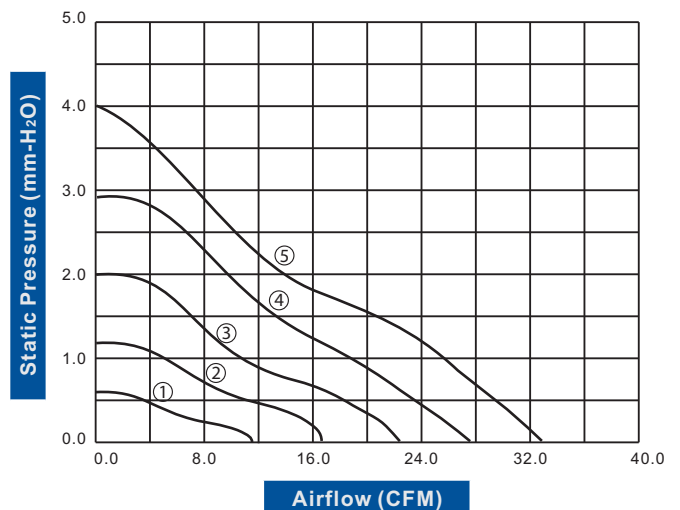
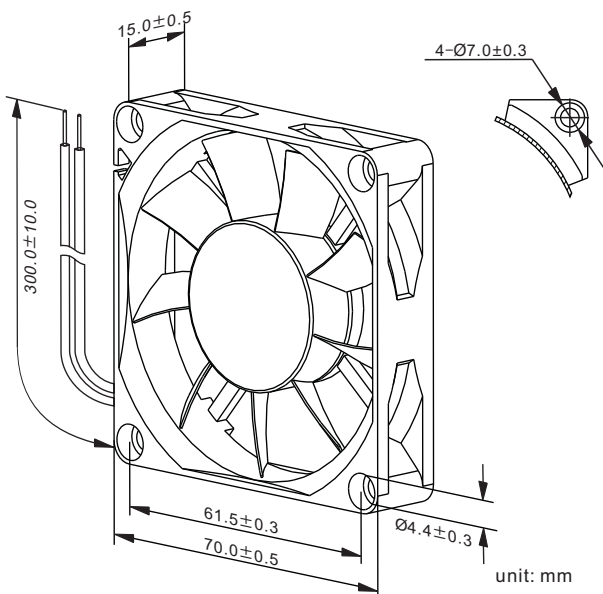


DC Axial Fans

Model Number		Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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

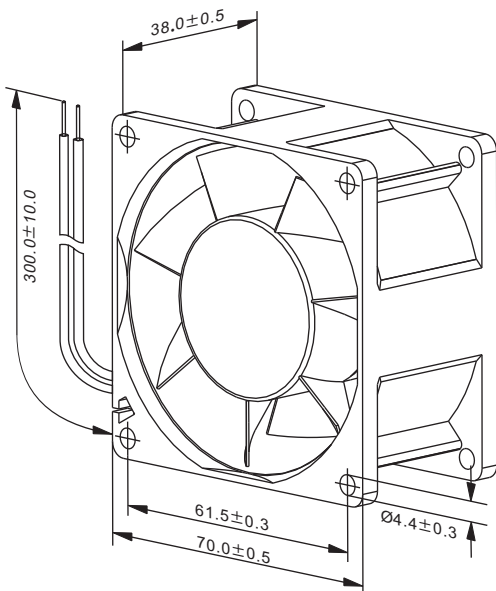
- High Airflow
- High Static Pressure

DC Axial Fans

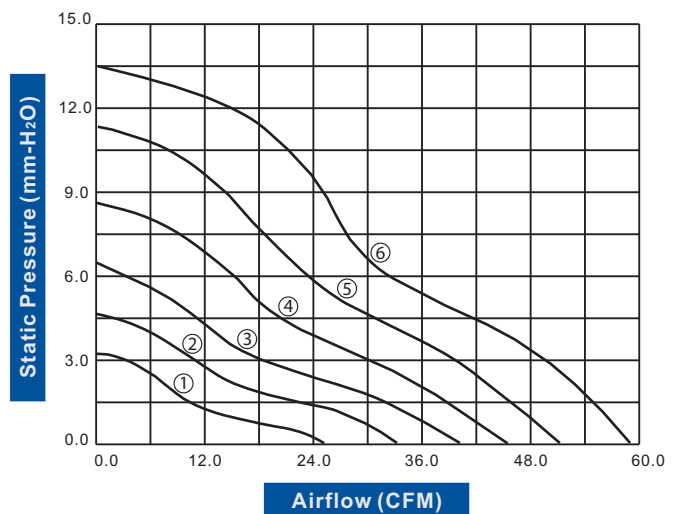
Model Number		Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD7038B12W1-81	★	12	8.0~13.8	26.40	3.10	32.00	2,600	130	1.56	B	①
FD7038B12W3-81	★	12	8.0~13.8	33.10	4.60	36.90	3,200	160	1.92	B	②
FD7038B12W5-81	★	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



# 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: -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: 35 g      Packing: 100PCS/CTN



SS SF

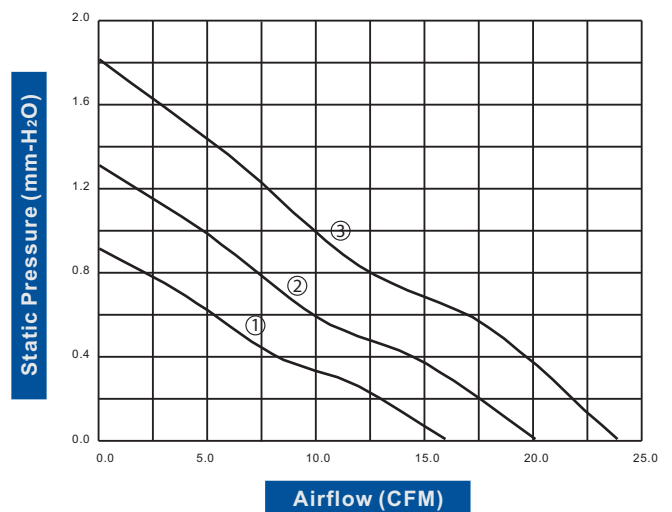
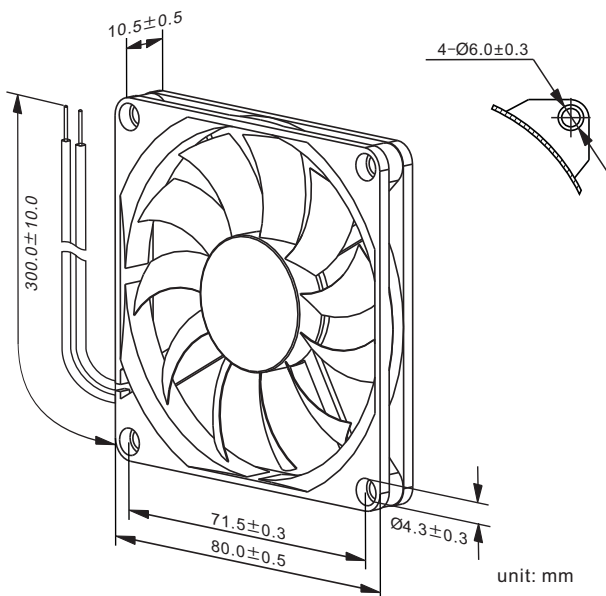


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 43 g      Packing: 100PCS/CTN



ES

SF

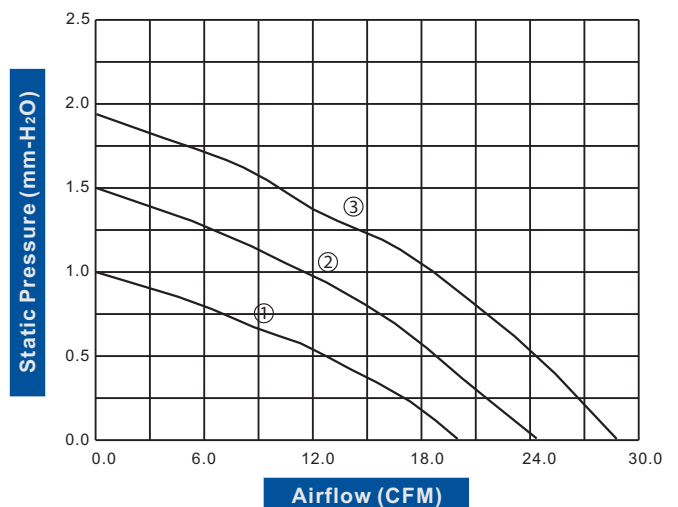
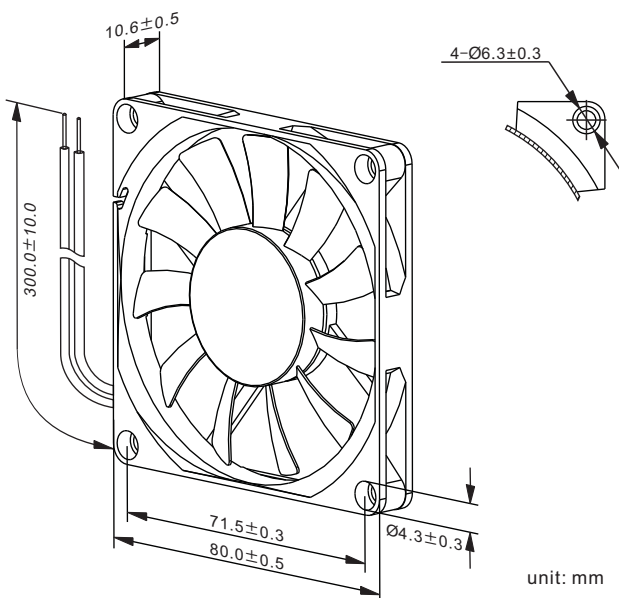


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 43 g      Packing: 100PCS/CTN



ES

SF

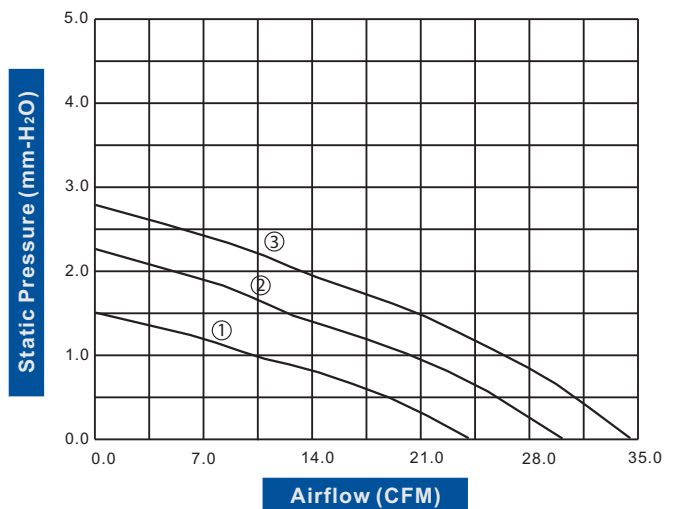
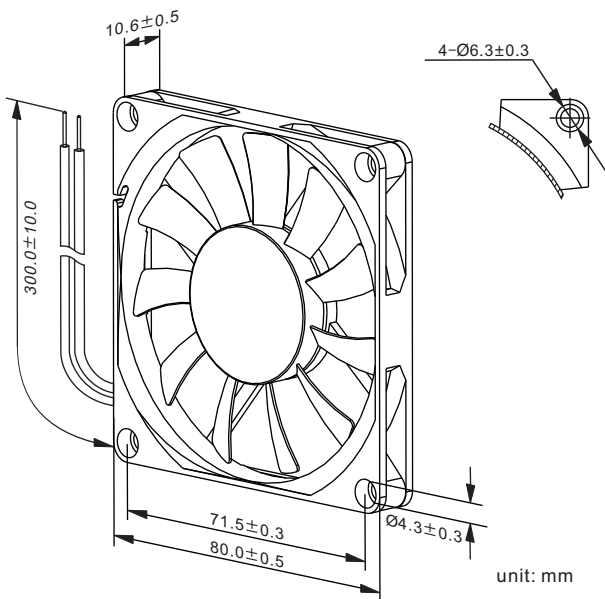


DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# 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: -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: 46 g      **Packing:** 100PCS/CTN



SS

SF

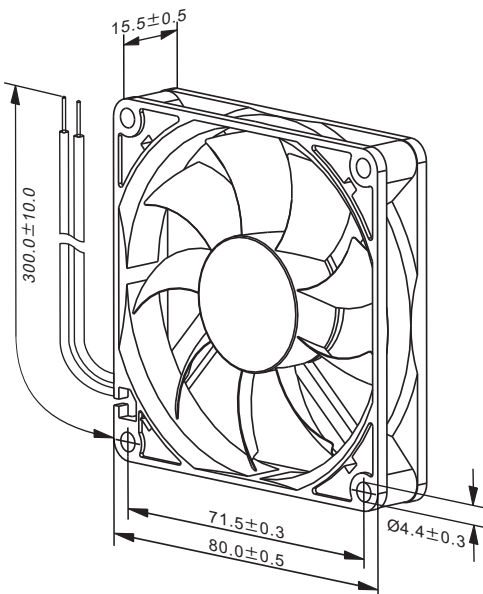


DC Axial Fans

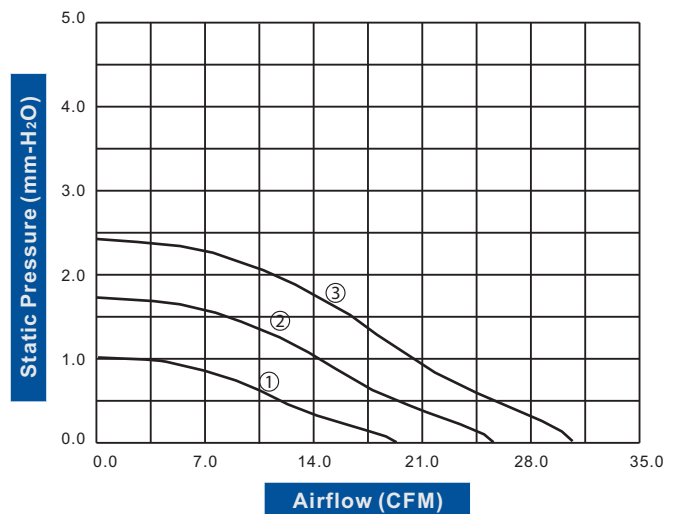
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD8015B05W3-71	5	4.0~5.5	19.30	1.00	23.80	2,000	140	0.70	B,L,S	①
FD8015B05W5-71	5	4.0~5.5	25.30	1.70	29.40	2,500	180	0.90	B,L,S	②
FD8015B05W7-71	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



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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 59 g      Packing: 100PCS/CTN



ES

IP

SF

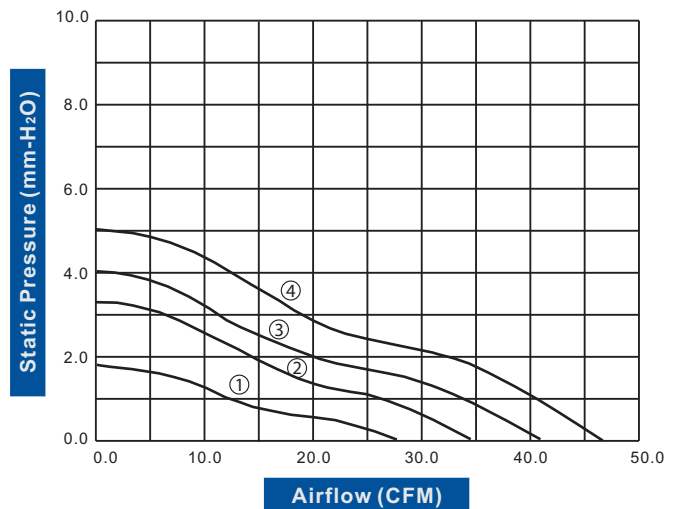
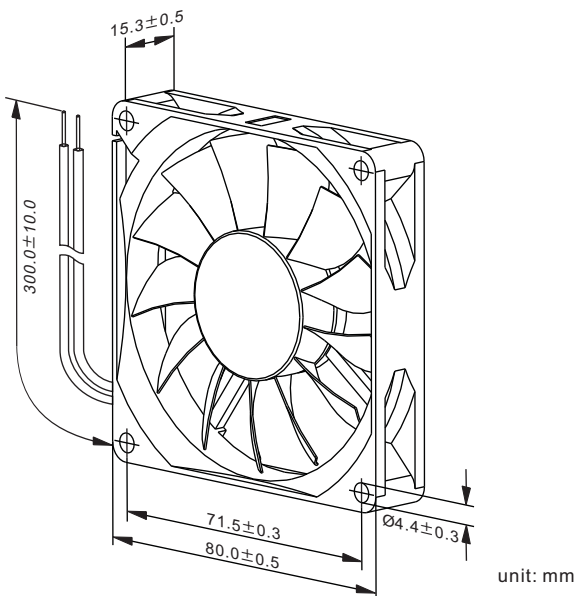


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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	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	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



# DC AXIAL FAN 80x80x15mm



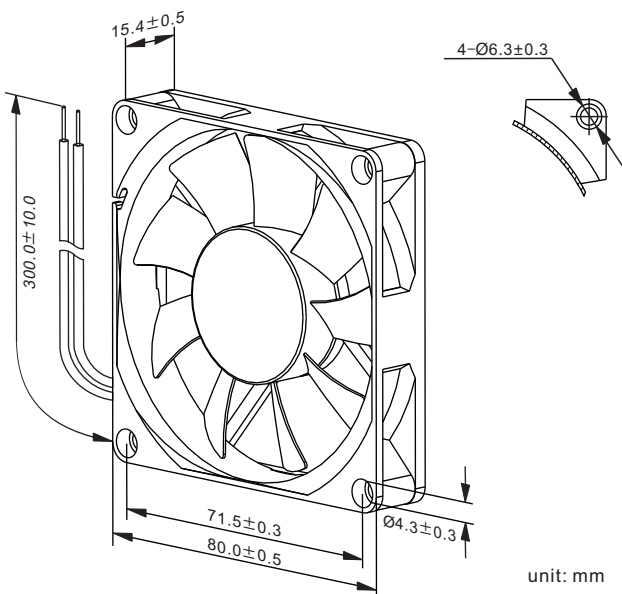
Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame  
 Dielectric Strength: 5mA max, 500VAC/min between bare wire and frame  
 Operation Temperature: -20°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
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



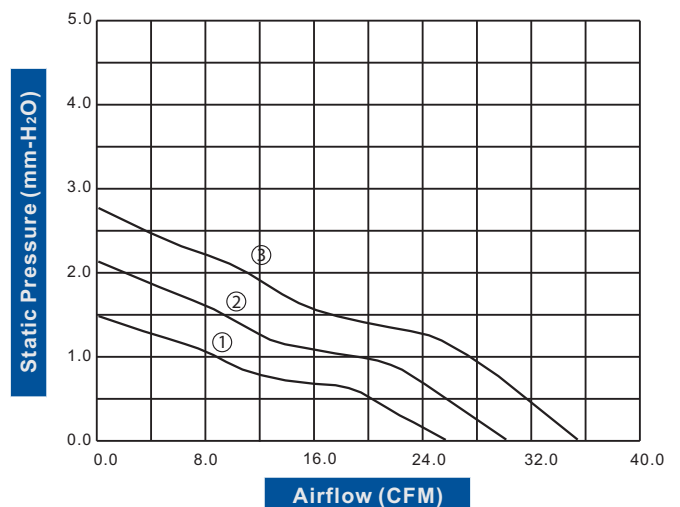
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD8015B05W3-83	5	4.0~5.75	25.50	1.50	22.20	2,100	140	0.70	B,F	①
FD8015B05W5-83	5	4.0~5.75	30.90	2.10	26.10	2,500	190	0.95	B,F	②
FD8015B05W7-83	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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 59 g      Packing: 100PCS/CTN



ES

SF

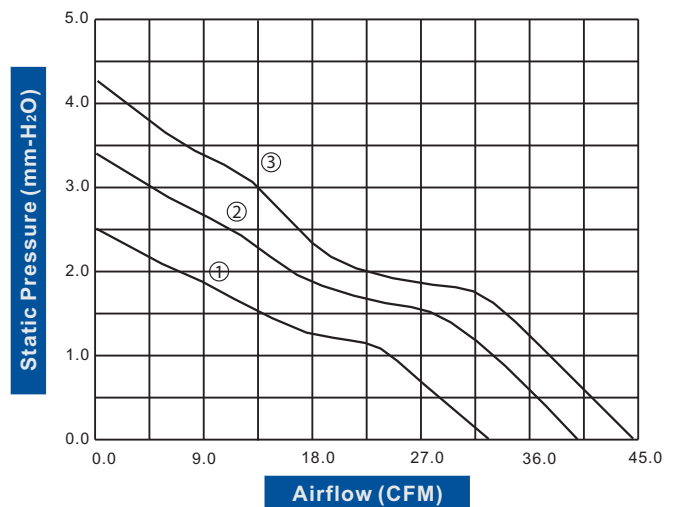
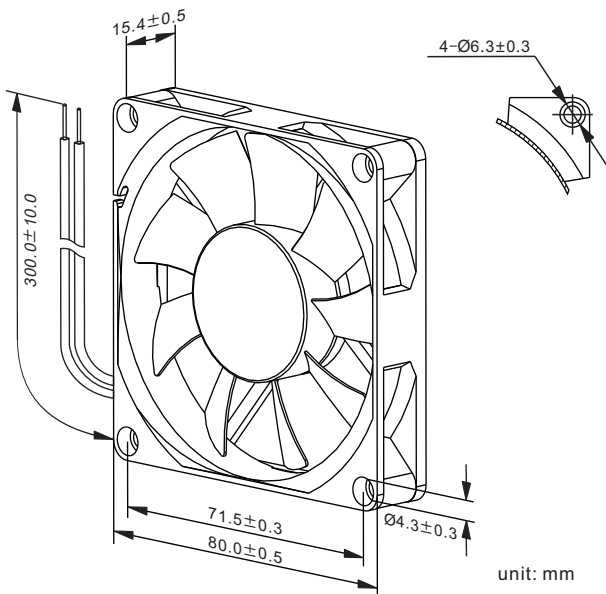


DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 100 g      **Packing:** 100PCS/CTN



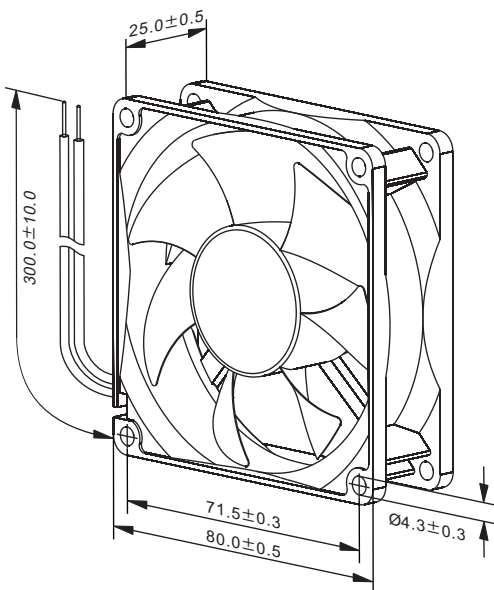
**ES** **IP** **SF**

DC Axial Fans

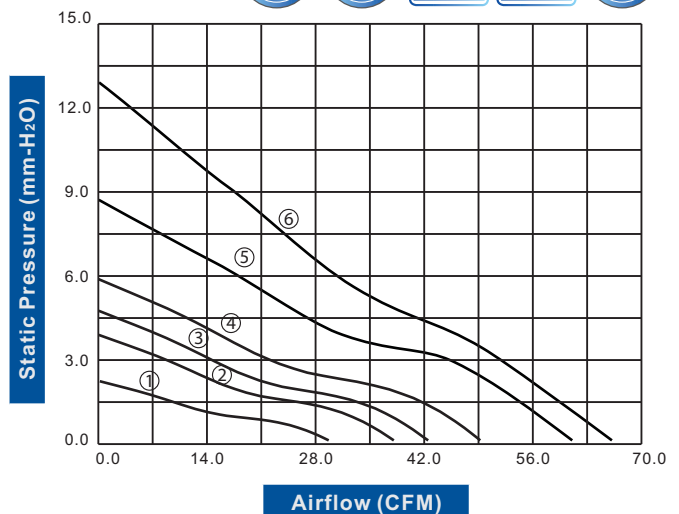
Model Number	▲	★▲	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD8025B12W3-21	▲		12	7.0~13.2	29.20	2.20	26.60	2,300	80	0.96	B,S	①
FD8025B12W5-21	▲		12	7.0~13.2	37.50	3.70	31.50	2,900	130	1.56	B,S	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



# 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: -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: 69 g      **Packing:** 100PCS/CTN



SS

SF

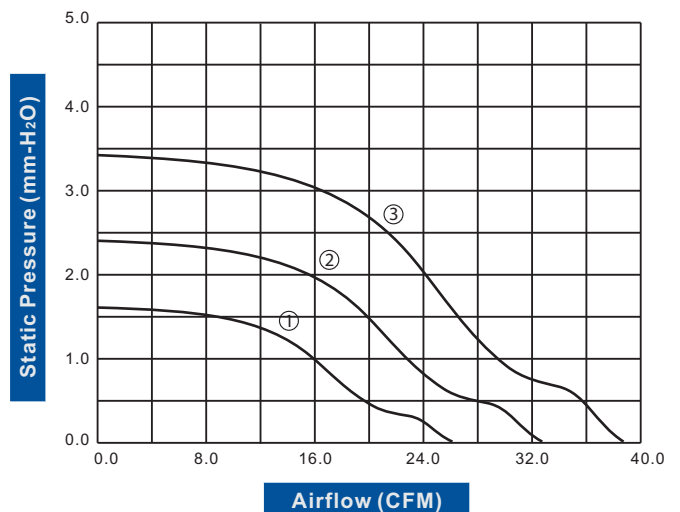
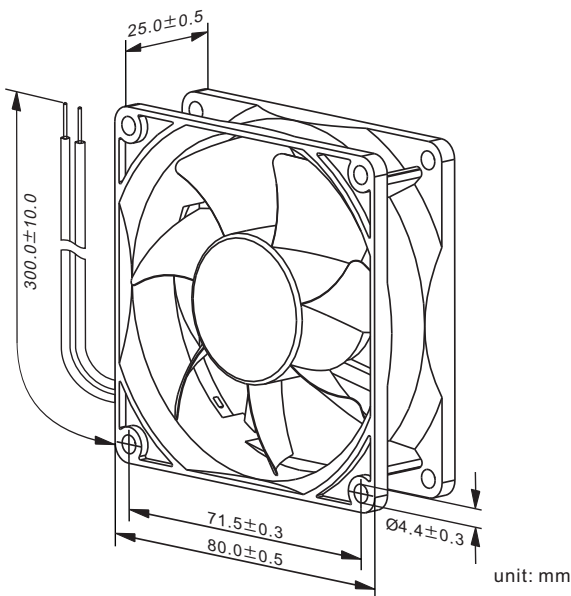


DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# 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: -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

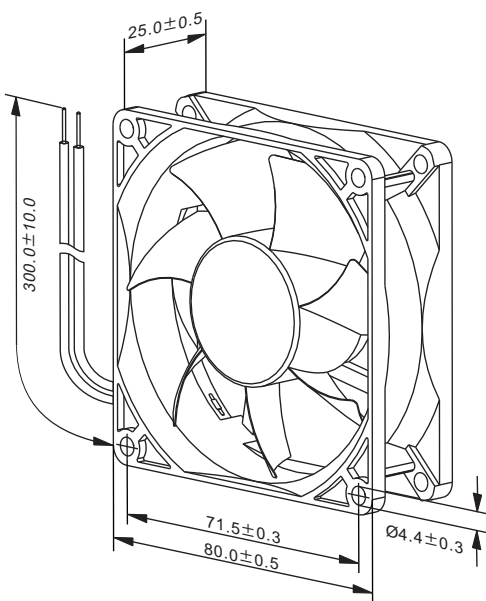


DC Axial Fans

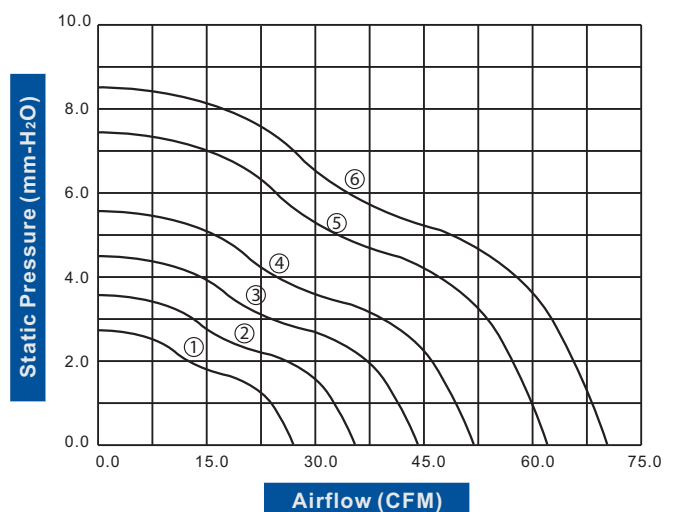
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD8025B12W3-73	12	10.8~13.2	26.60	2.70	22.40	1,800	130	1.56	B,S	①
FD8025B12W5-73A	12	10.8~13.2	35.40	3.60	29.20	2,400	260	3.12	B,S	②
FD8025B12W5-73B	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



unit: mm





# DC AXIAL FAN 80x80x25mm



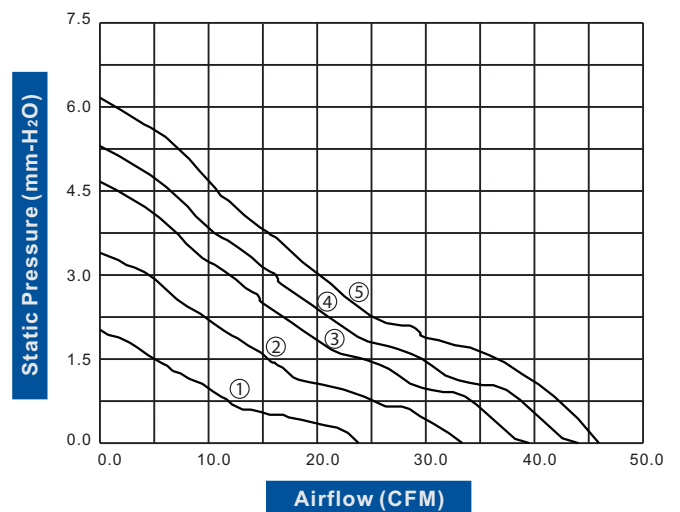
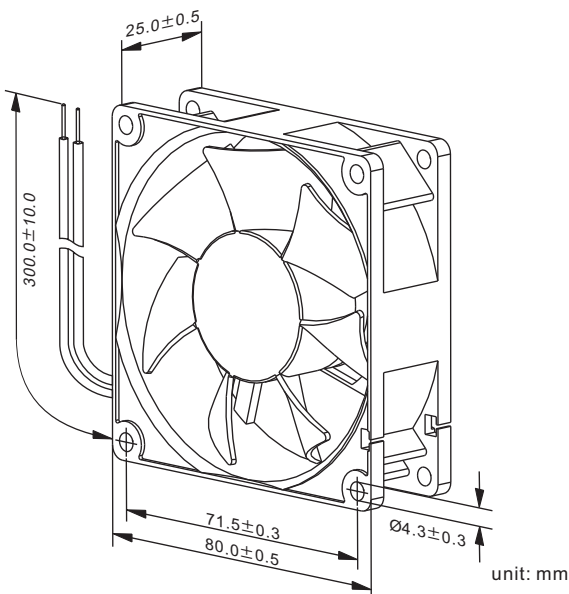
Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame  
 Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame  
 Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)  
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



Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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





# DC AXIAL FAN 80x80x25mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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 #24 AWG  
 Weight: 78 g      Packing: 100PCS/CTN

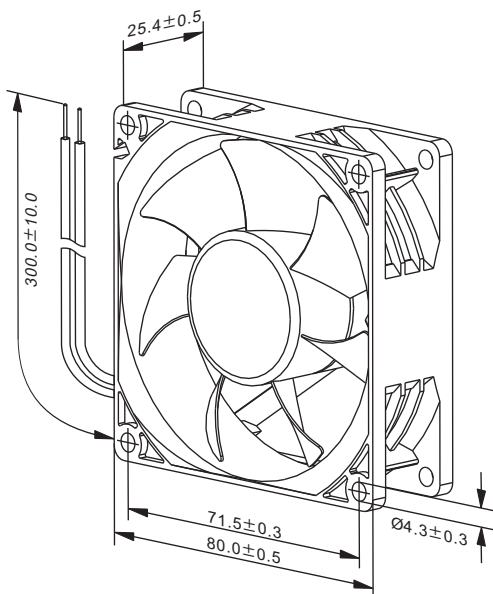


DC Axial Fans

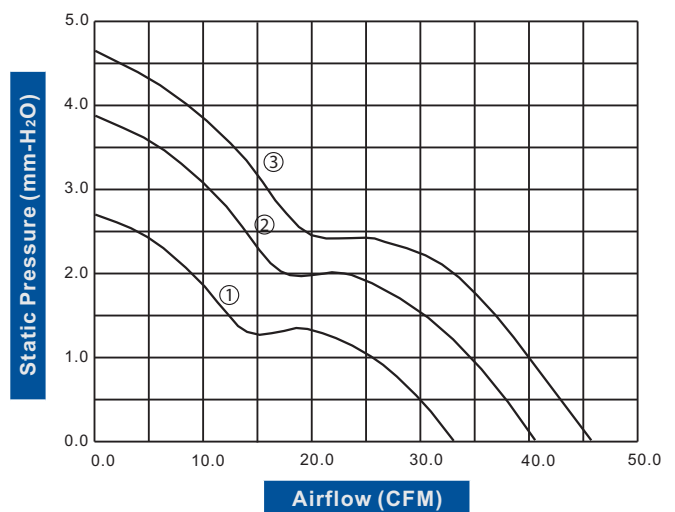
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD8025B12W3-83	12	6.0~13.8	33.40	2.80	26.10	2,500	80	0.96	B,F	①
FD8025B12W5-83	12	6.0~13.8	40.60	3.90	32.00	3,000	110	1.32	B,F	②
FD8025B12W7-83	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



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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 92 g      Packing: 100PCS/CTN

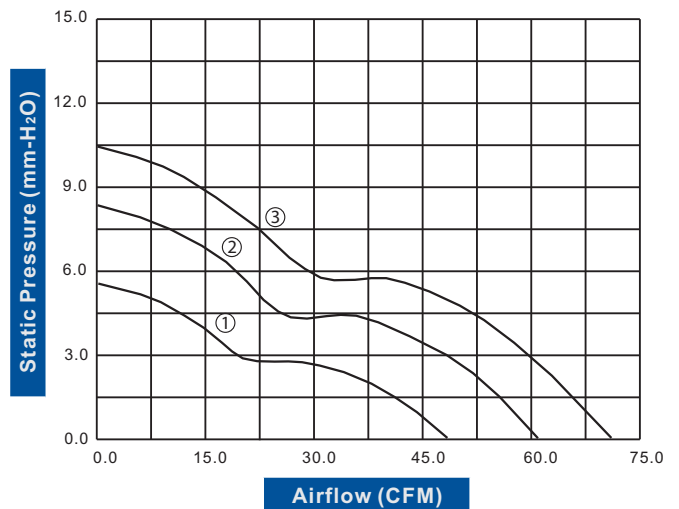
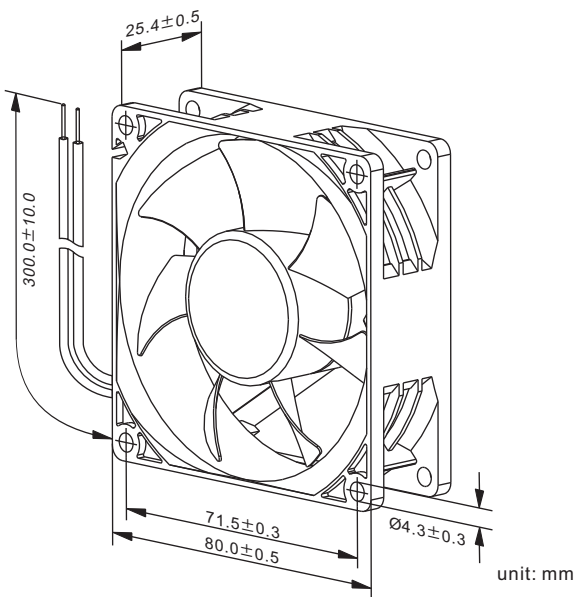


- High Airflow
- High Static Pressure

Model Number		Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 91 g      Packing: 100PCS/CTN



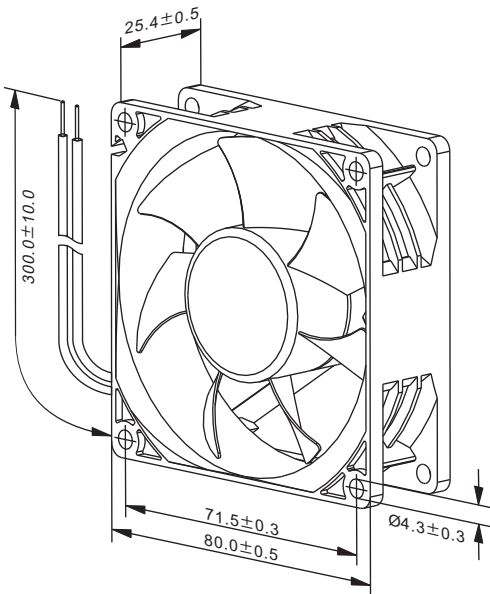
**ES** **IP** **SF**

- High Airflow
- High Static Pressure

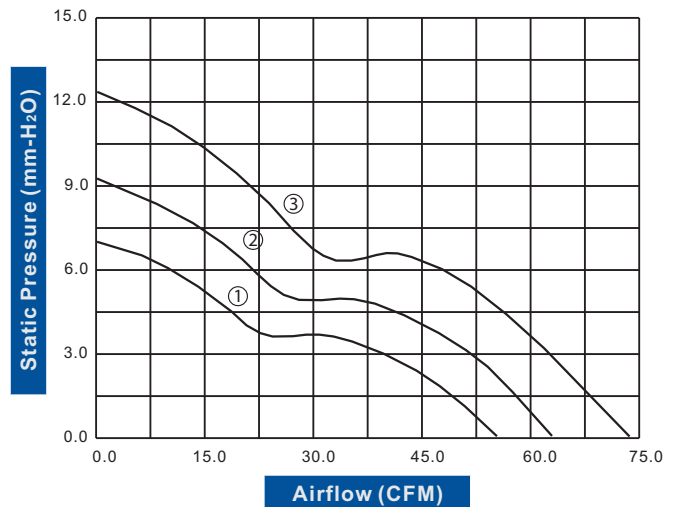
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD8025B12W3-85	★▲ 12	6.0~13.8	54.20	7.00	39.40	4,000	220	2.64	B	①
FD8025B12W5-85	★▲ 12	6.0~13.8	63.00	9.20	42.80	4,600	280	3.36	B	②
FD8025B12W7-85	★▲ 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 175 g      Packing: 60PCS/CTN



**ES** **IP** **SF**

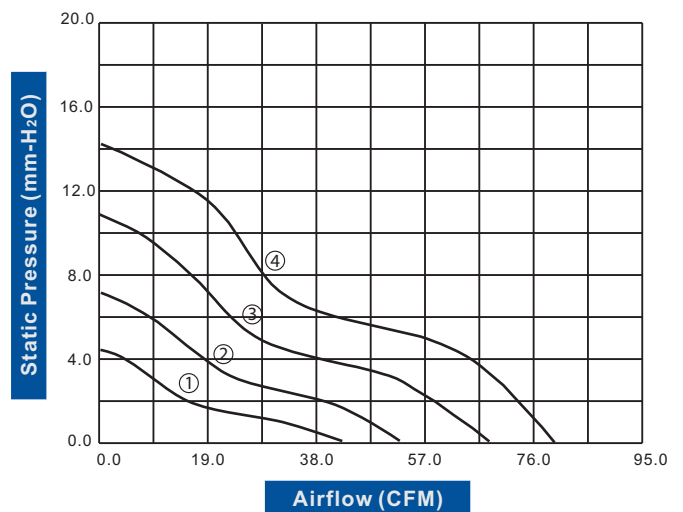
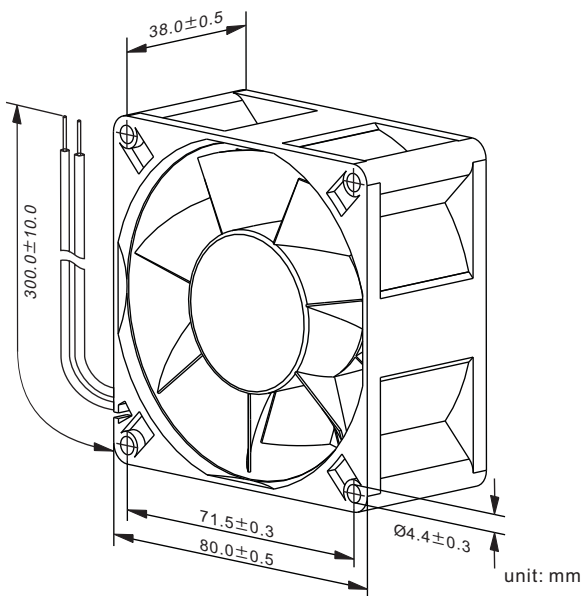
- High Airflow
- High Static Pressure

DC Axial Fans

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 215 g      Packing: 60PCS/CTN

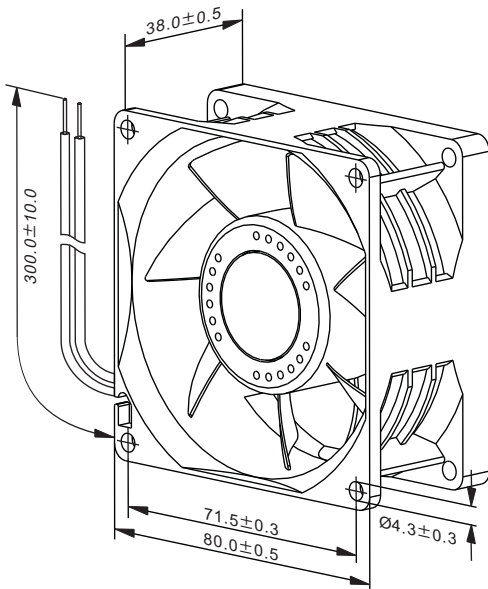


- High Airflow
- Extremely High Static Pressure

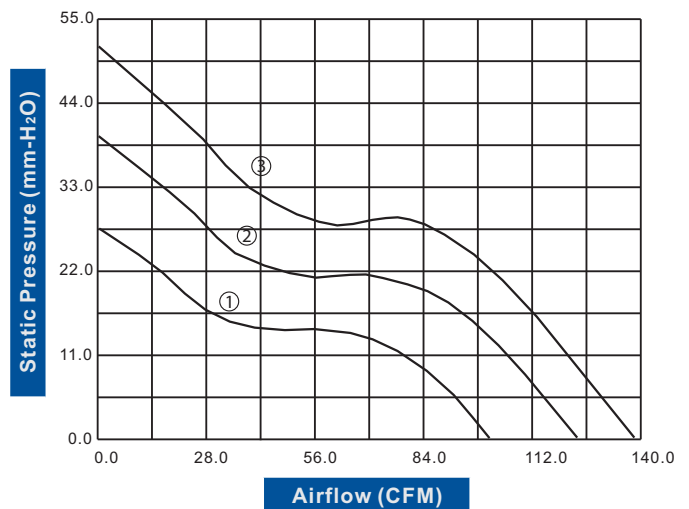
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD8038B12W3-85	★▲ 12	6.0~13.8	99.10	28.20	56.10	7,500	1,460	17.52	B	①
FD8038B12W5-85	★▲ 12	6.0~13.8	120.80	40.40	60.60	9,000	2,200	26.40	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



unit: mm



# DC AXIAL FAN 92x92x25mm



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: 83 g      Packing: 100PCS/CTN



SS

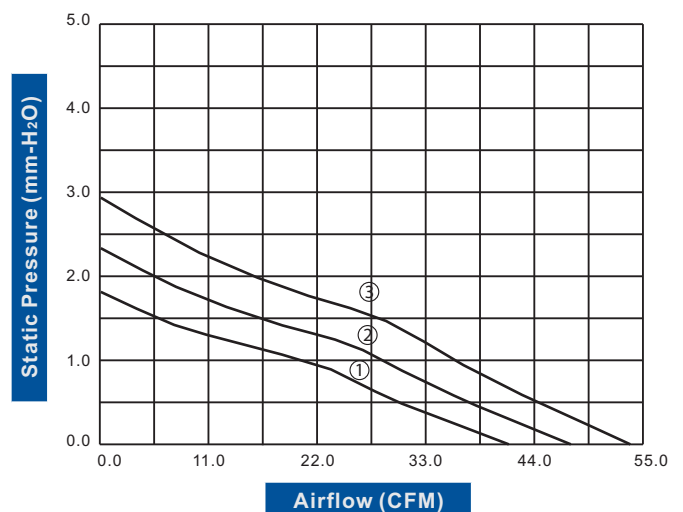
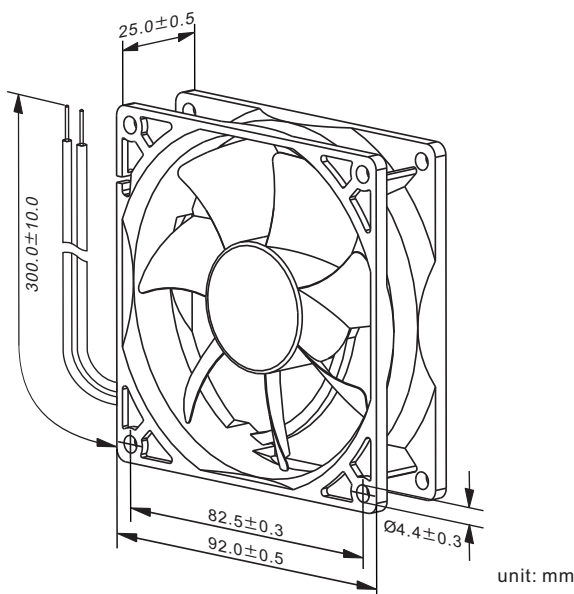
SF

DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 92x92x25mm



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 #24 AWG  
 Weight: 88 g      **Packing:** 100PCS/CTN

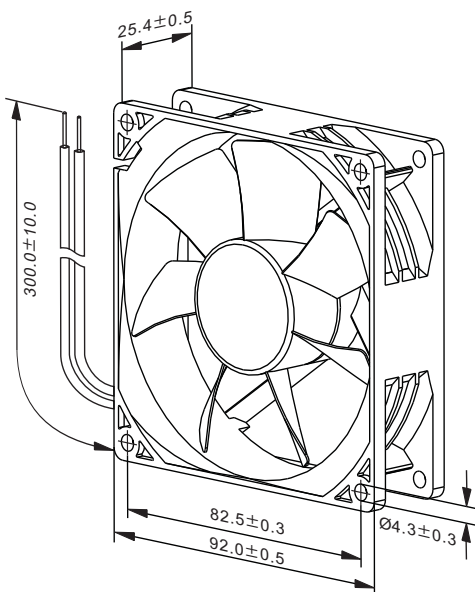


DC Axial Fans

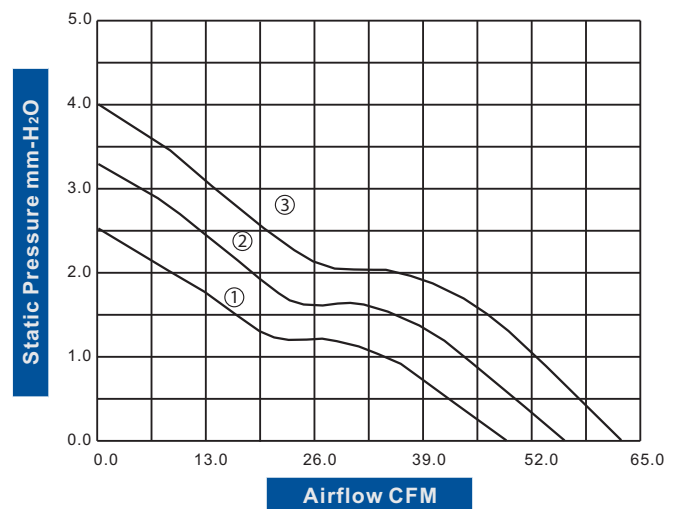
Model Number		Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD9225B12W3-83	★	12	6.0~13.8	49.10	2.50	28.60	2,100	90	1.08	B,F	①
FD9225B12W5-83	★	12	6.0~13.8	55.90	3.30	32.00	2,400	140	1.68	B,F	②
FD9225B12W7-83	★	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





# DC AXIAL FAN 92x92x25mm



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 #24 AWG  
 Weight: 106 g      **Packing: 100PCS/CTN**



ES

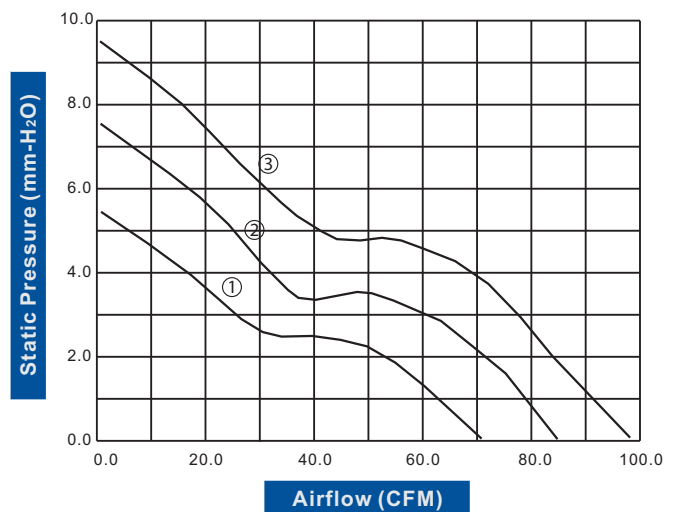
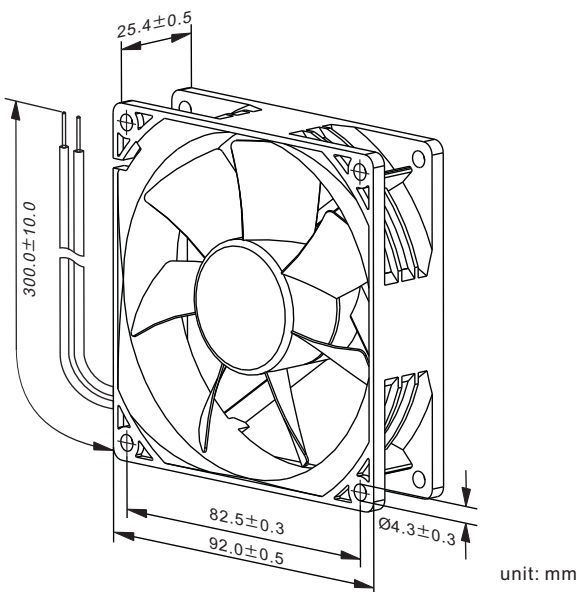
SF

- High Airflow
- High Static Pressure

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC AXIAL FAN 92x92x25mm



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 #24 AWG  
 Weight: 99 g      Packing: 100PCS/CTN



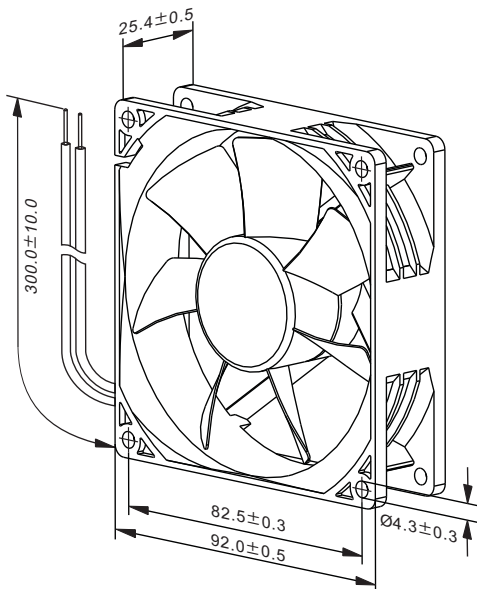
**ES** **IP** **SF**

- High Airflow
- High Static Pressure

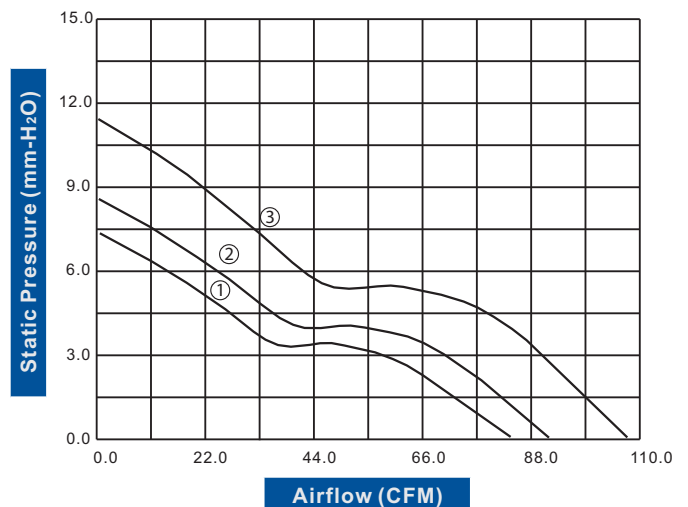
Model Number		Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD9225B12W3-85	★▲	12	6.0~13.8	83.70	7.00	42.80	3,500	280	3.36	B	①
FD9225B12W5-85	★▲	12	6.0~13.8	91.20	8.70	46.80	4,000	390	4.68	B	②
FD9225B12W7-85	★▲	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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 173 g      Packing: 60PCS/CTN



**ES** **IP** **SF**

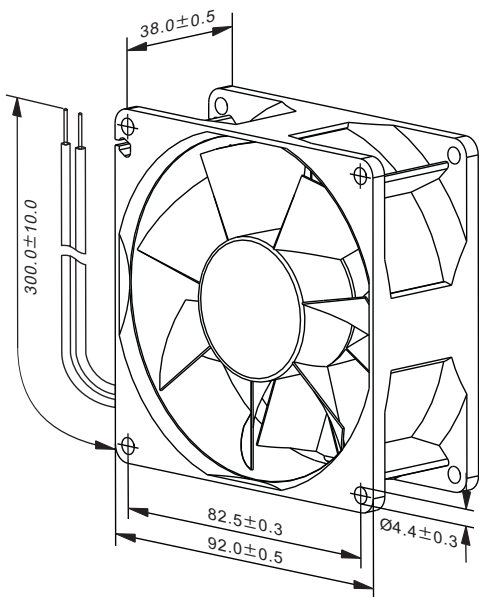
- High Airflow
- High Static Pressure

DC Axial Fans

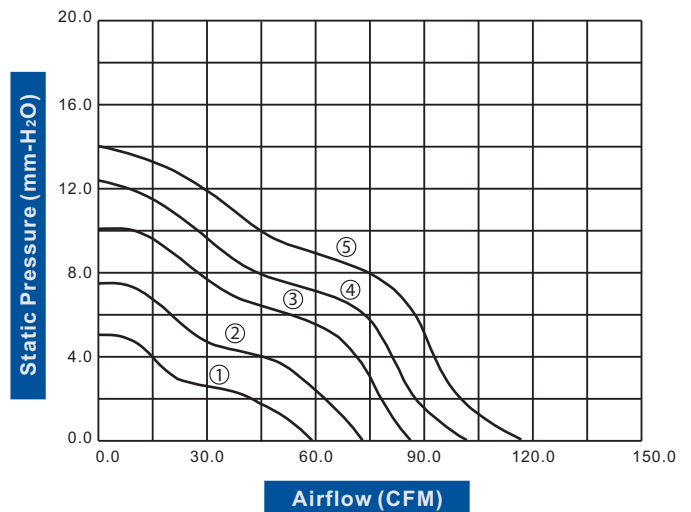
Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD9238B12W3-81	★	12	8.0~13.8	58.20	5.10	38.90	2,600	220	2.64	B	①
FD9238B12W5-81	★	12	8.0~13.8	72.10	7.30	44.30	3,200	300	3.60	B	②
FD9238B12W7-81	★	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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(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

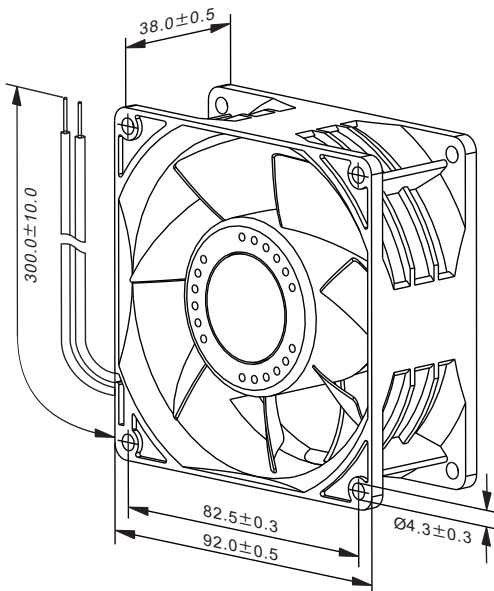


DC Axial Fans

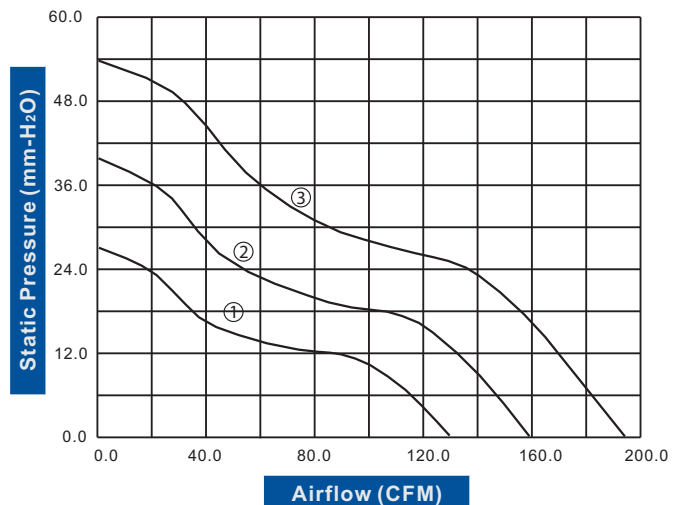
Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD9238B12W3-85	★▲ 12	6.0~13.8	131.30	27.20	54.20	6,200	1,500	18.00	B	①
FD9238B12W5-85	★▲ 12	6.0~13.8	159.80	39.10	58.10	7,500	2,300	27.60	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



# 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°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 164 g      Packing: 60PCS/CTN



SS

IP

SF

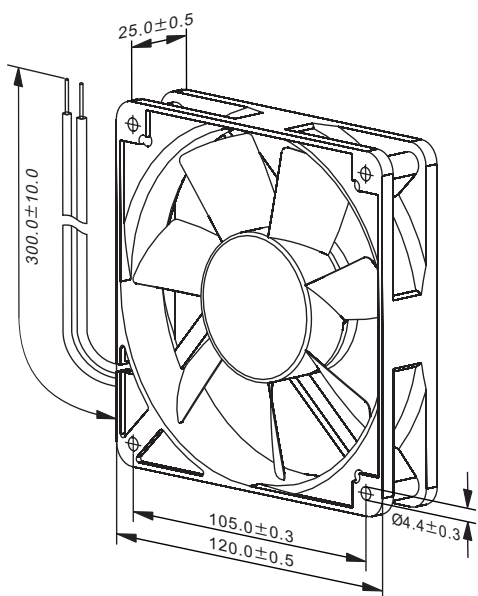


DC Axial Fans

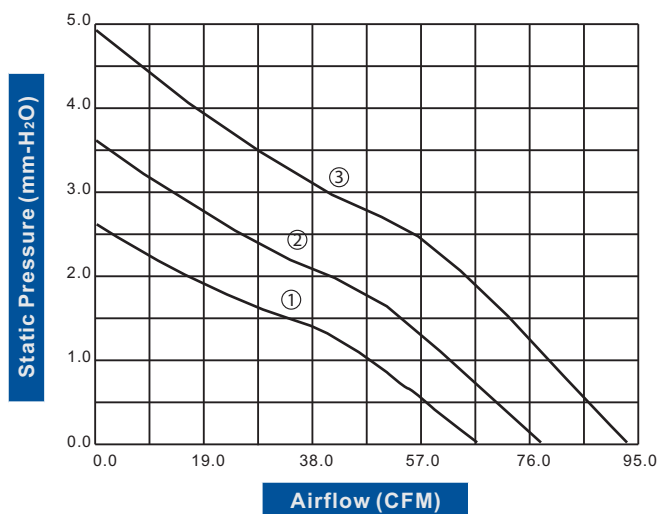
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1225B12W2-61	▲ 12	6.0~13.8	66.10	2.60	33.50	1,700	180	2.16	B,S	①
FD1225B12W3-61	★▲ 12	6.0~13.8	78.10	3.60	37.40	2,000	230	2.76	B,S	②
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



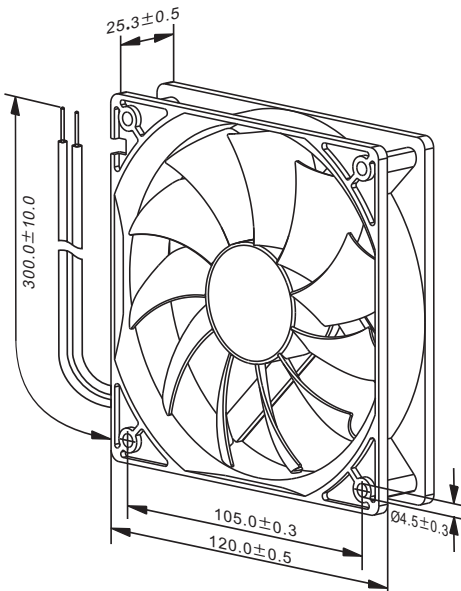
Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame  
 Dielectric Strength: 5mA max, 500VAC/min between bare wire and frame  
 Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~75°C(Humidity 35%-85%RH)  
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



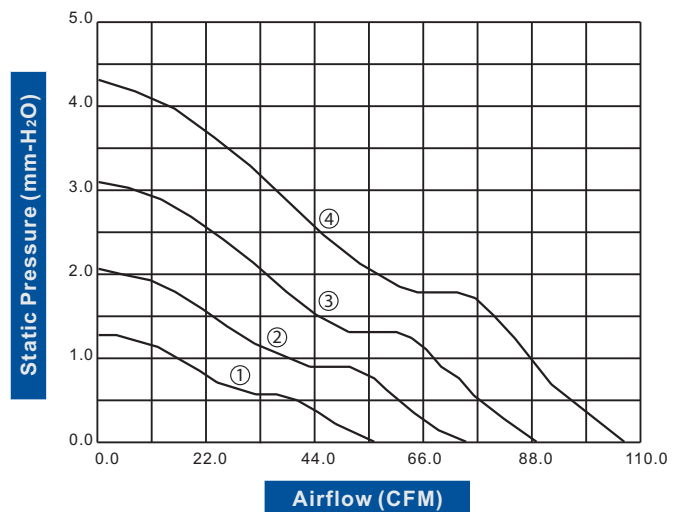
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1225B12W3-75	12	7.0~13.8	56.70	1.30	30.70	1,400	330	3.96	B,S	①
FD1225B12W5-75A	★ 12	7.0~13.8	72.90	2.10	36.10	1,800	450	5.40	B,S	②
FD1225B12W5-75B	★ 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



unit: mm





# DC AXIAL FAN 120x120x25mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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 #24 AWG  
 Weight: 230 g      Packing: 60PCS/CTN



**ES** **IP** **SF**

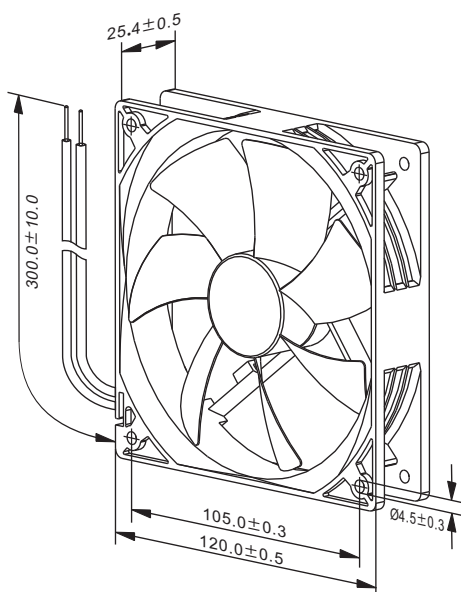
- High Airflow
- Extremely High Static Pressure

DC Axial Fans

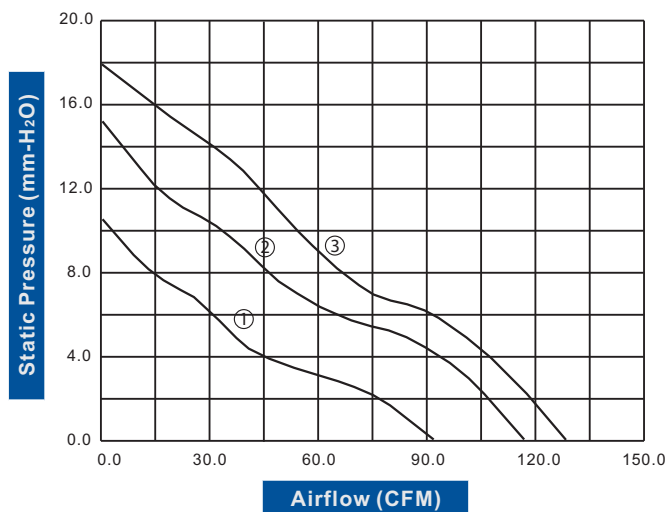
Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1225B12W3-84	★▲	12	6.0~13.8	93.20	10.60	41.40	2,900	280	3.36	B	①
FD1225B12W5-84	★▲	12	6.0~13.8	110.60	15.40	46.30	3,500	390	4.68	B	②
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





# DC AXIAL FAN 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: -10°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #22 AWG  
 Weight: 250 g      Packing: 40PCS/CTN



SS

IP

SF

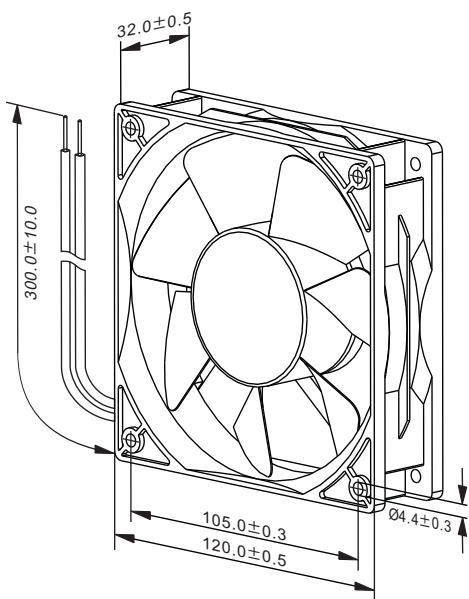


DC Axial Fans

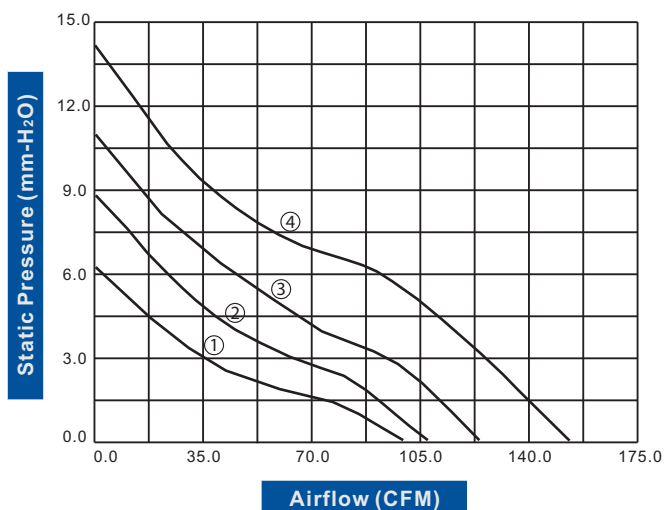
Model Number		Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1232B12W3-61	★	12	6.0~13.8	94.40	7.00	43.30	2,900	320	3.84	B,S	①
FD1232B12W5-61	★	12	6.0~13.8	108.20	8.70	47.30	3,300	500	6.00	B,S	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



# 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: -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: 290 g      Packing: 40PCS/CTN



SS

IP

SF

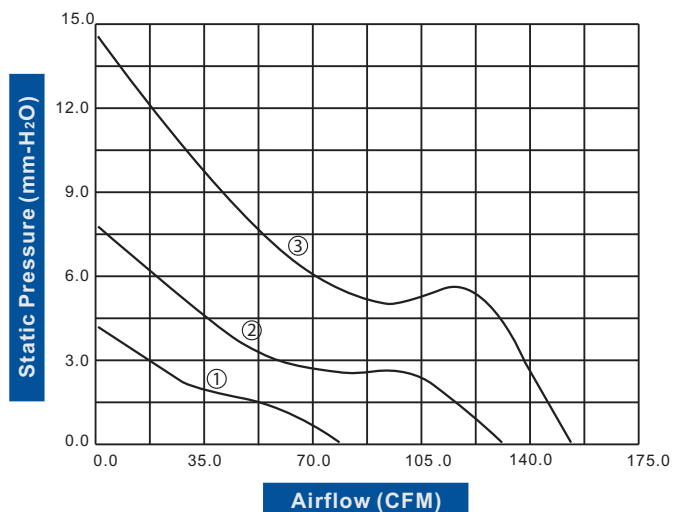
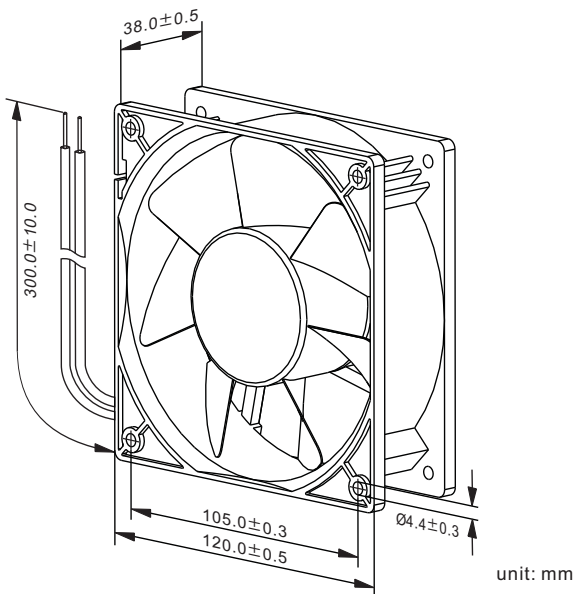


DC Axial Fans

Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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 built in.
- If model depicts "▲", polarity protection function built in.

Specifications are subject to change without notice



# 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°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 350 g      Packing: 40PCS/CTN



SS IP SF

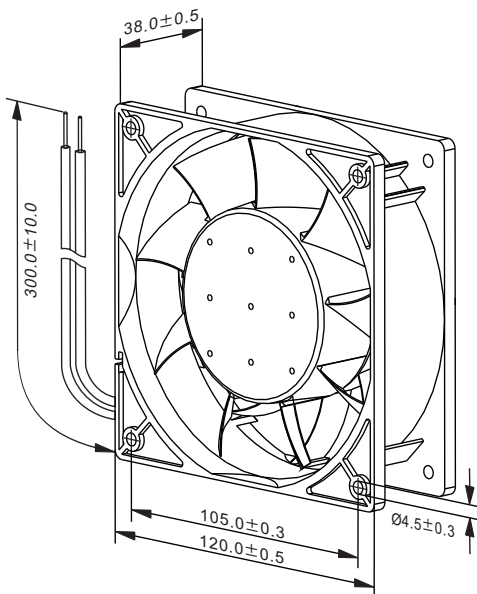


DC Axial Fans

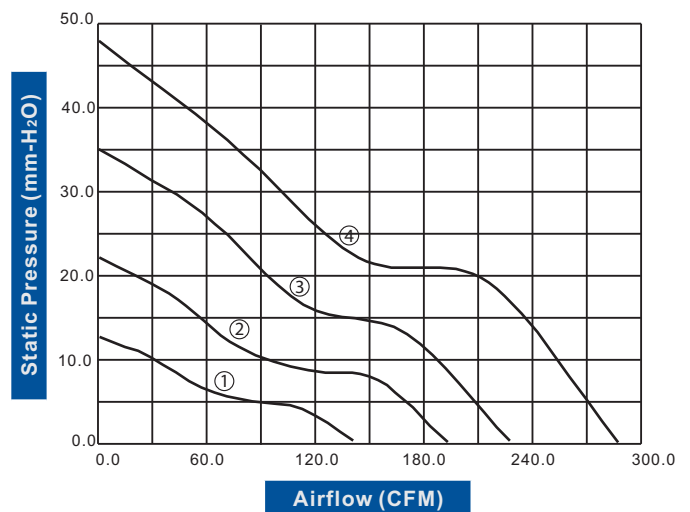
Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1238B12W2-63	★▲	12	6.0~13.8	141.90	12.10	51.20	3,000	1,500	18.00	B,S	①
FD1238B12W3-63	★▲	12	6.0~13.8	191.40	21.90	58.10	4,000	2,000	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



unit: mm



# DC AXIAL FAN 120x120x38mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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 #24 AWG  
 Weight: 375 g      Packing: 40PCS/CTN



**ES** **IP** **SF**

- High Airflow
- High Static Pressure

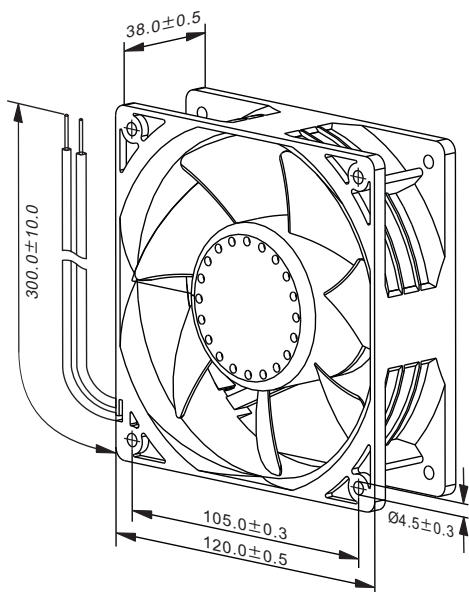


DC Axial Fans

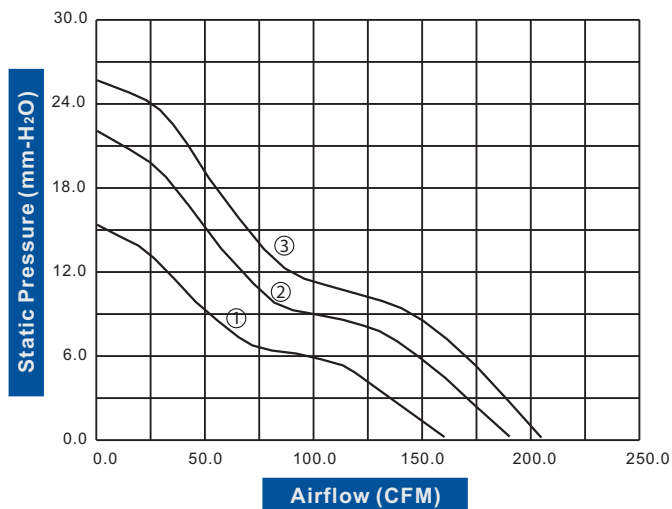
Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1238B12W3-84	★▲	12	6.0~13.8	159.30	15.80	50.20	3,500	730	8.76	B	①
FD1238B12W5-84	★▲	12	6.0~13.8	184.80	21.80	54.70	4,100	1,080	12.96	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: 10M $\Omega$ , 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 #24 AWG  
 Weight: 415 g      Packing: 40PCS/CTN



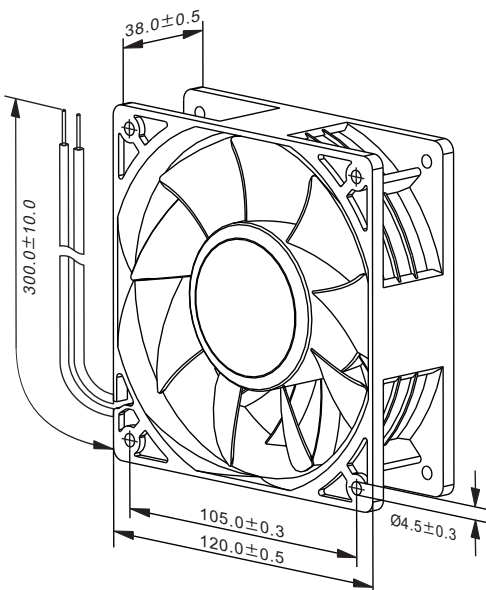
**ES** **IP** **SF**

- High Airflow
- Extremely High Static Pressure

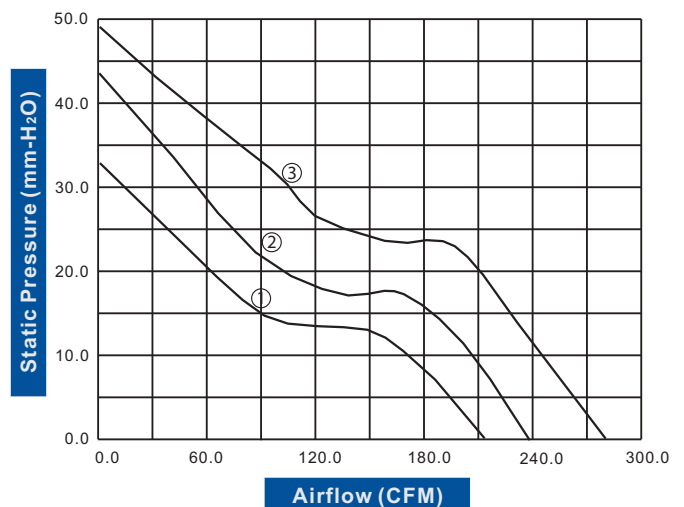
Model Number		Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1238B12W3-85	★▲	12	6.0~13.8	209.40	33.00	58.60	4,700	2000	24.00	B	①
FD1238B12W5-85	★▲	12	6.0~13.8	238.60	44.40	64.60	5,700	3000	36.00	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)



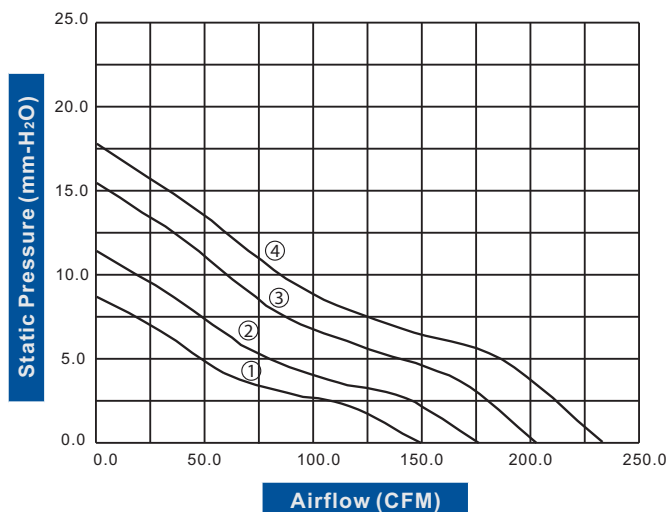
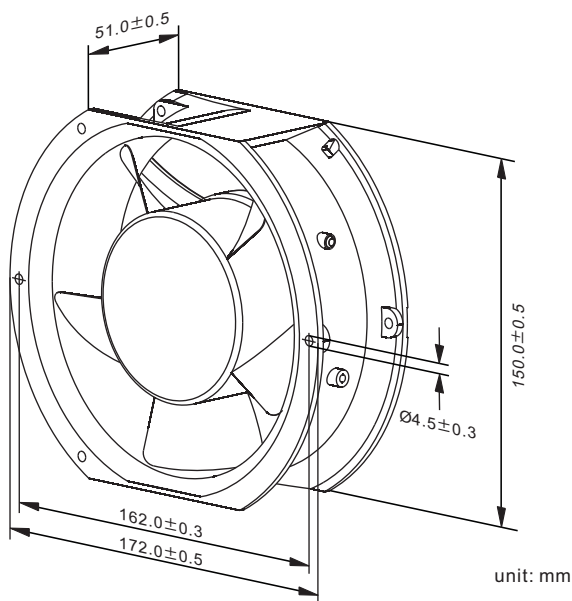
Housing: Die-Cast Aluminum  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame  
 Dielectric Strength: 5mA max, 500VAC/min between bare wire and frame  
 Operation Temperature: -20°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity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



Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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





# 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°C~70°C(Humidity 35%-85%RH)

Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)

Lead Wire: UL Type #22 AWG

Weight: 735 g      Packing: 16PCS/CTN



SS

IP

SF

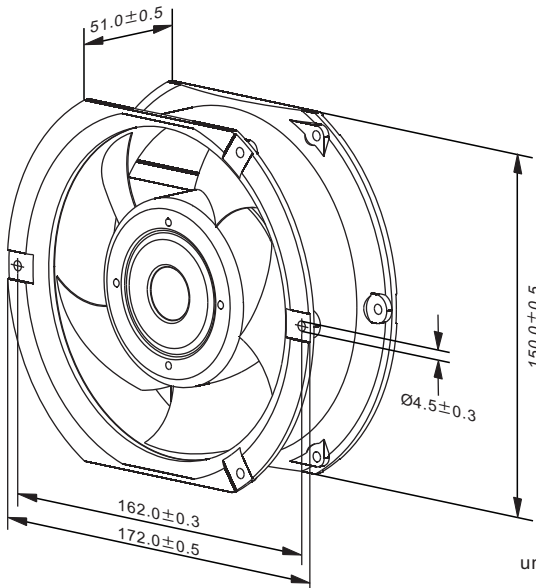


DC Axial Fans

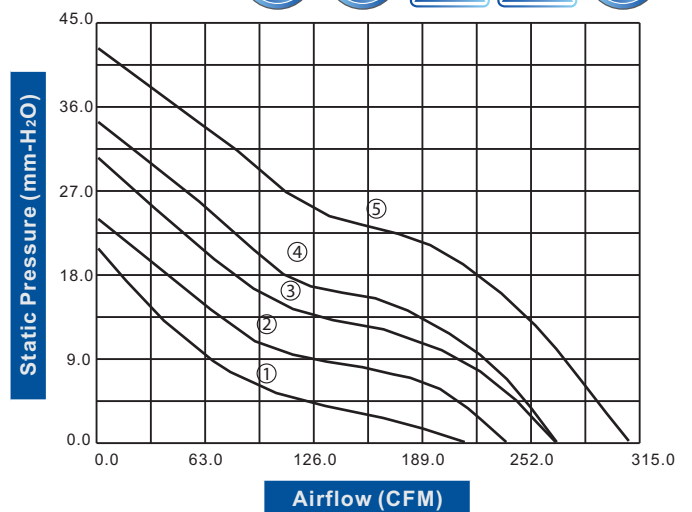
Model Number		Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1751B12W1-61	★▲	12	9.0~13.8	215.00	20.30	55.20	3,100	1,300	15.60	B	①
FD1751B12W3-61	★▲	12	9.0~13.8	235.40	23.60	58.10	3,400	1,800	21.60	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

## Ø 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°C~70°C(Humidity 35%-85%RH)

Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)

Lead Wire: UL Type #22 AWG

Weight: 830 g      Packing: 20PCS/CTN



SS IP SF

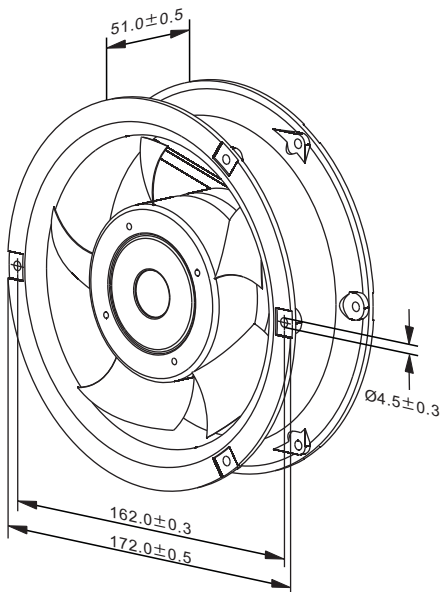


DC Axial Fans

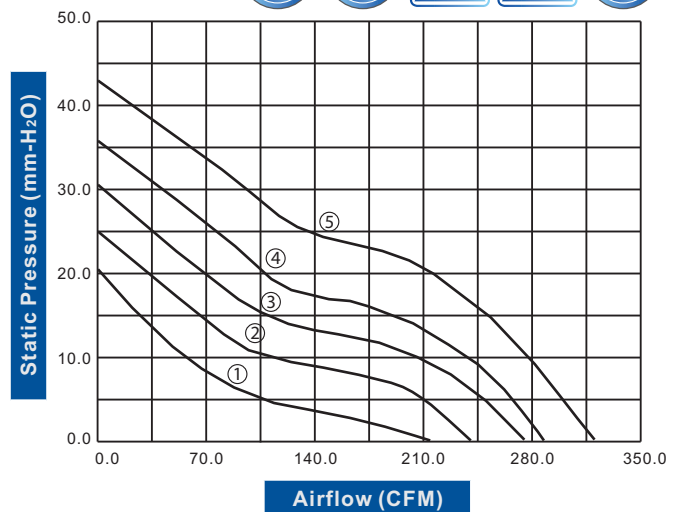
Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1751B12W1-65	★▲ 12	9.0~13.8	215.00	20.10	53.20	3,100	1,300	15.60	B	①
FD1751B12W3-65	★▲ 12	9.0~13.8	238.50	24.80	55.20	3,400	1,800	21.60	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°C~70°C(Humidity 35%-85%RH)

Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)

Lead Wire: UL Type #22 AWG

Weight: 765 g      Packing: 15PCS/CTN



SS

IP

SF

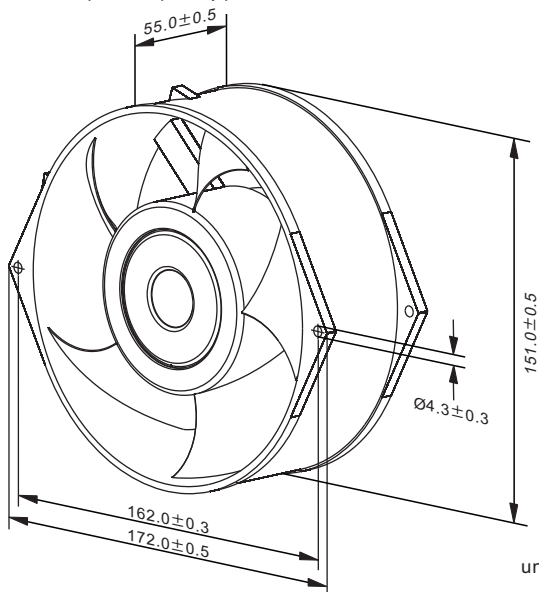


DC Axial Fans

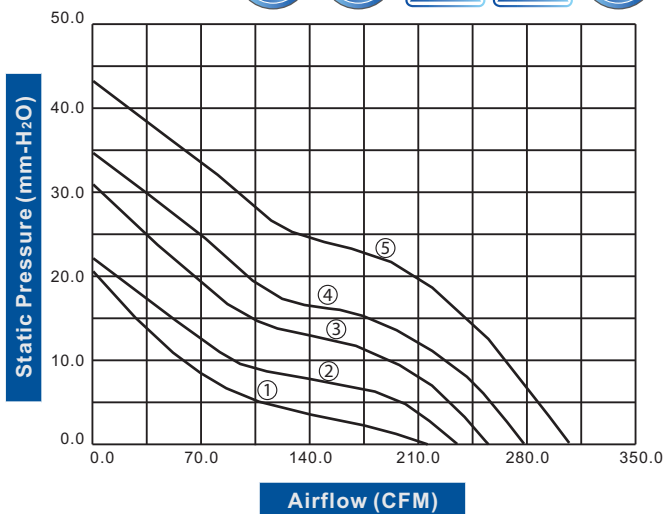
Model Number		Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FD1755B12W1-61	★▲	12	9.0~13.8	212.50	20.50	53.20	3,100	1,300	15.60	B	①
FD1755B12W3-61	★▲	12	9.0~13.8	229.20	21.40	57.10	3,400	1,800	21.60	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



# DC BLOWER 50x50x15mm



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 #30 AWG  
 Weight: 21 g      Packing: 300PCS/CTN

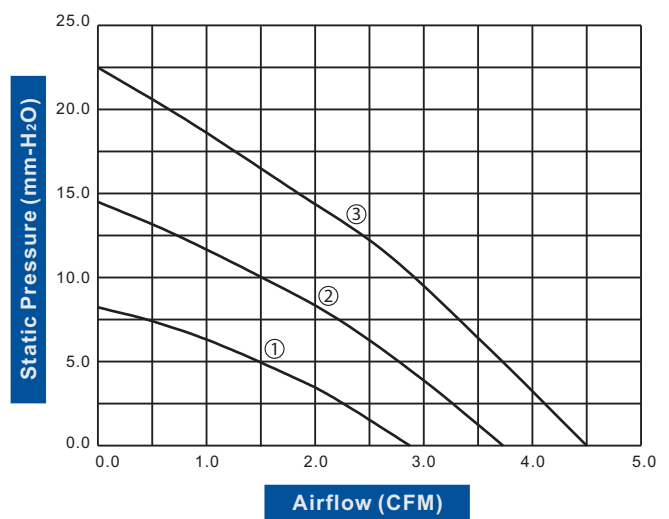
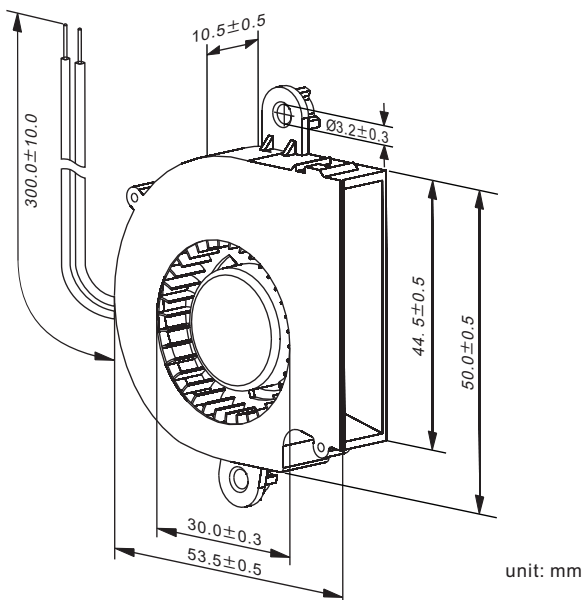
**SS** **IP** **SF**

DC Axial Fans

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# DC BLOWER 50x50x15mm



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 #28 AWG  
 Weight: 26 g      Packing: 200PCS/CTN



SS IP SF

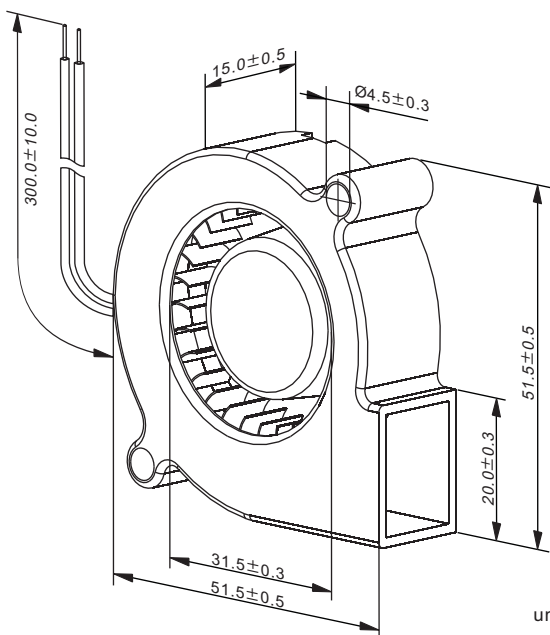


DC Blowers

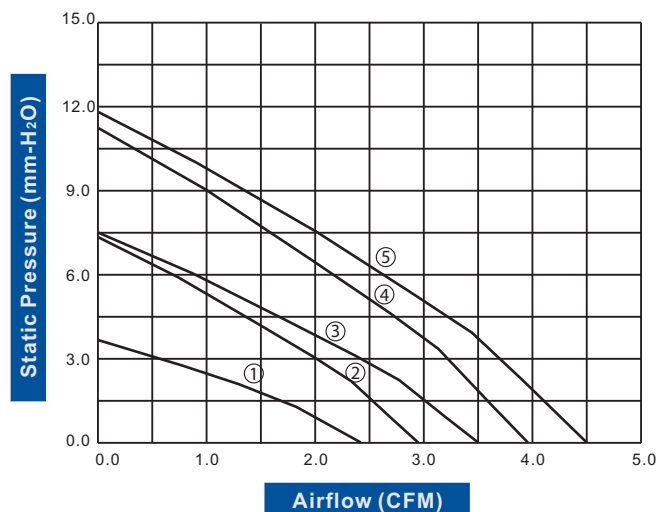
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FBD5015B05W3-61	▲ 5	3.5~5.75	2.40	3.60	25.60	3,000	120	0.60	B,S	①
FBD5015B05W5-61	▲ 5	3.5~5.75	3.50	7.50	34.50	4,000	200	1.00	B,S	③
FBD5015B05W7-61	★▲ 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



# DC BLOWER 50x50x15mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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: 24 g      Packing: 200PCS/CTN



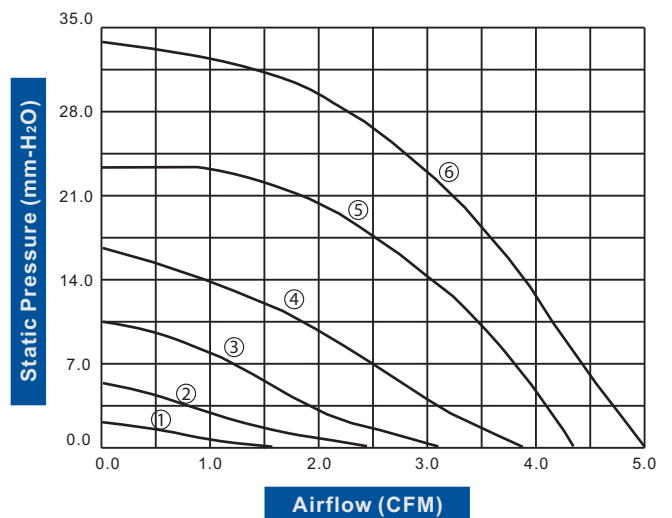
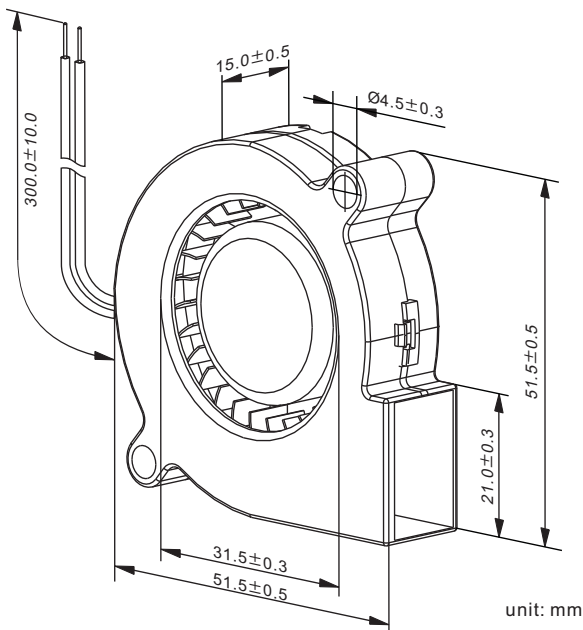
ES IP SF



DC Blowers

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC BLOWER 57x57x12mm



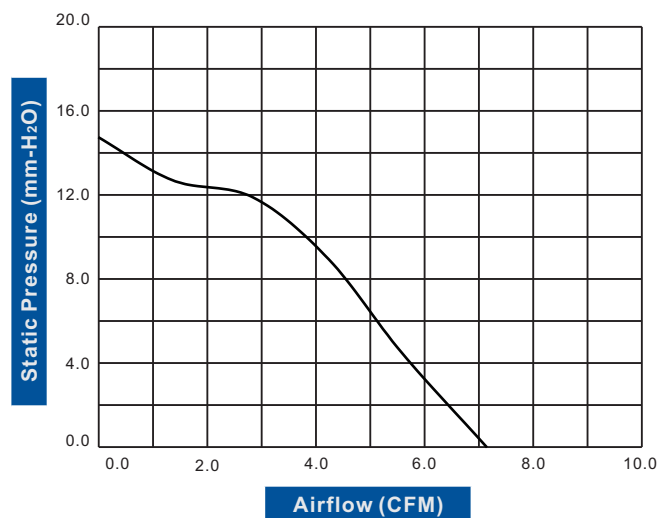
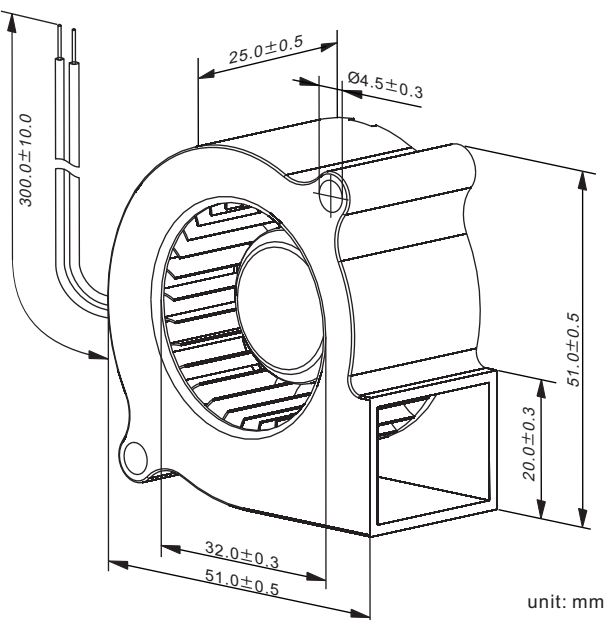
ES IP SF

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

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# DC BLOWER 57x57x12mm



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: 20 g      Packing: 300PCS/CTN



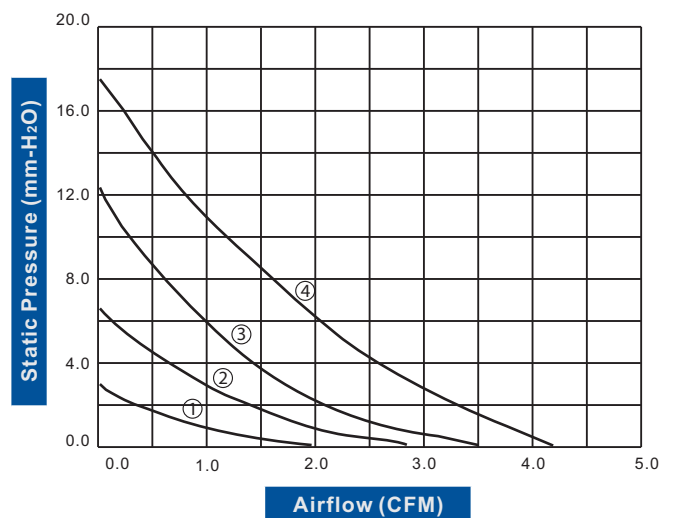
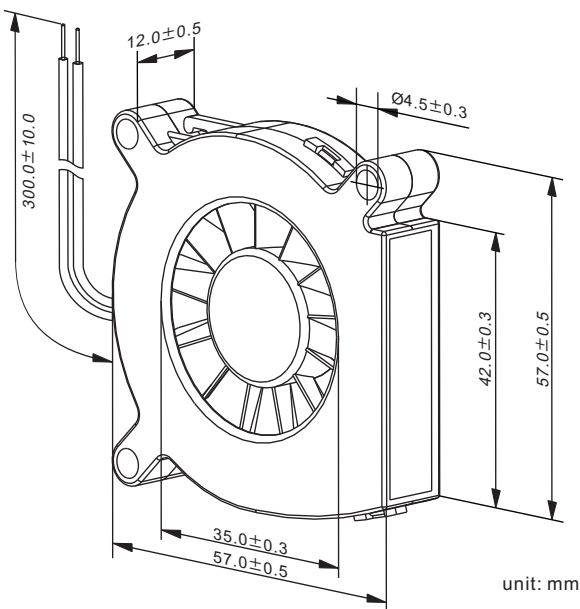
ES

IP

SF

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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





# DC BLOWER 60x60x15mm



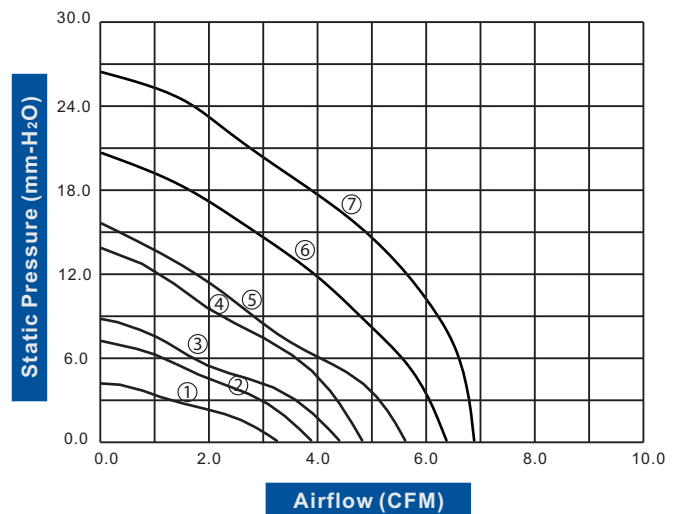
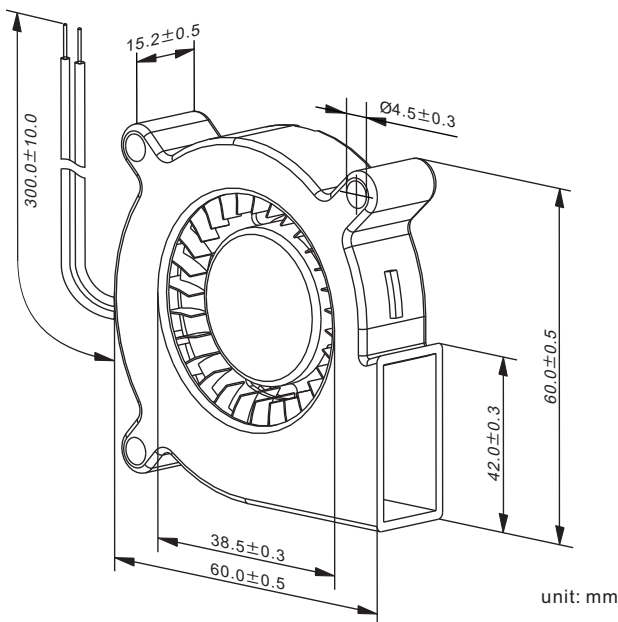
Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame  
 Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame  
 Operation Temperature: -20°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 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 <sub>2</sub> O)	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



# 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 52 g      Packing: 200PCS/CTN



ES

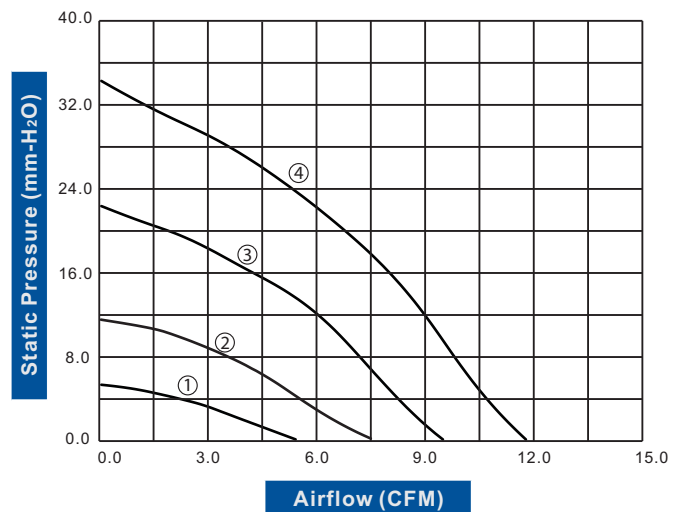
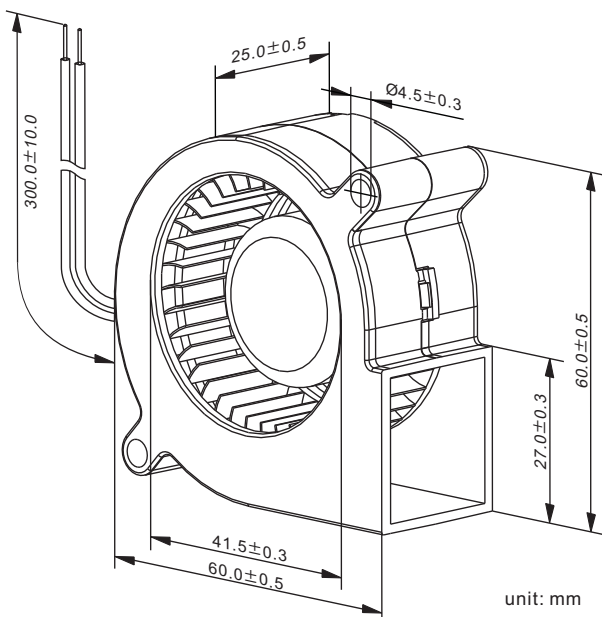
IP

SF

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC BLOWER 75x77x30mm



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: 87 g      **Packing:** 100PCS/CTN



SS

IP

SF

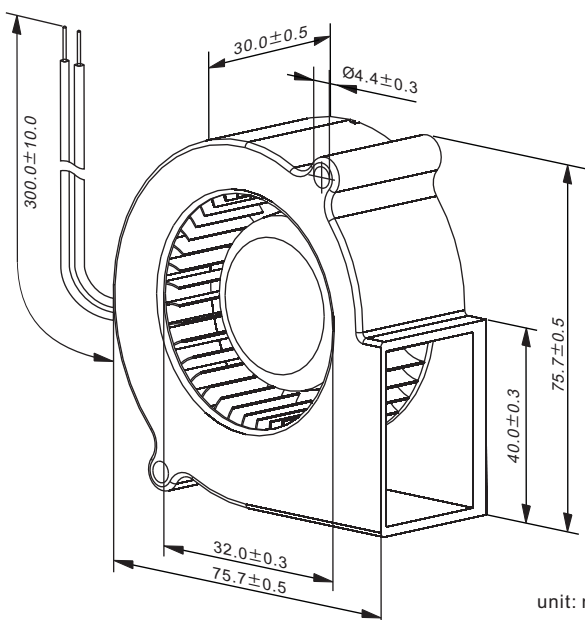


DC Blowers

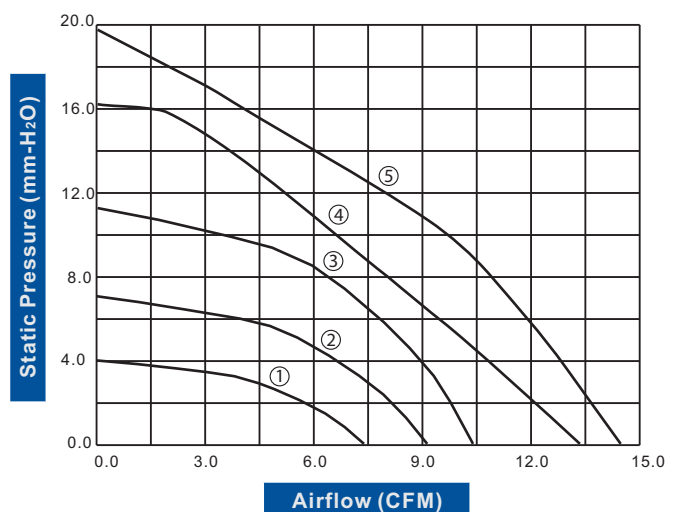
Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FBD7530B12W3-61	▲ 12	6.0~13.8	7.30	4.00	25.60	2,000	90	1.08	B,S	①
FBD7530B12W5-61	▲ 12	6.0~13.8	9.40	7.10	32.50	2,500	170	2.04	B,S	②
FBD7530B12W7-61	★▲ 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°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(Humidity 15%-90%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 61 g      Packing: 100PCS/CTN

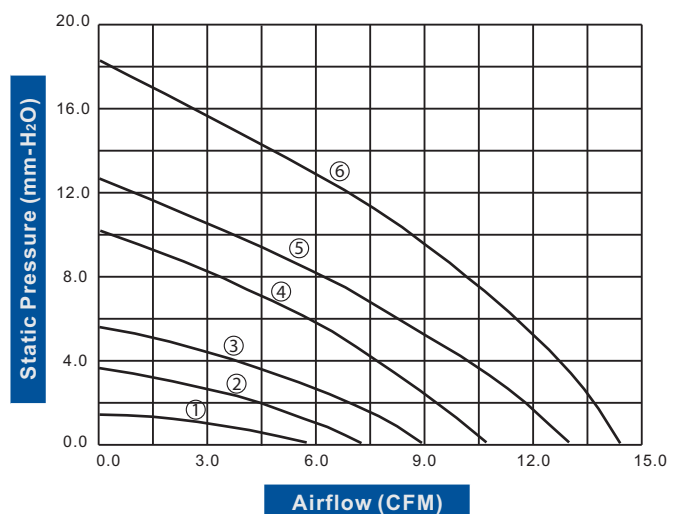
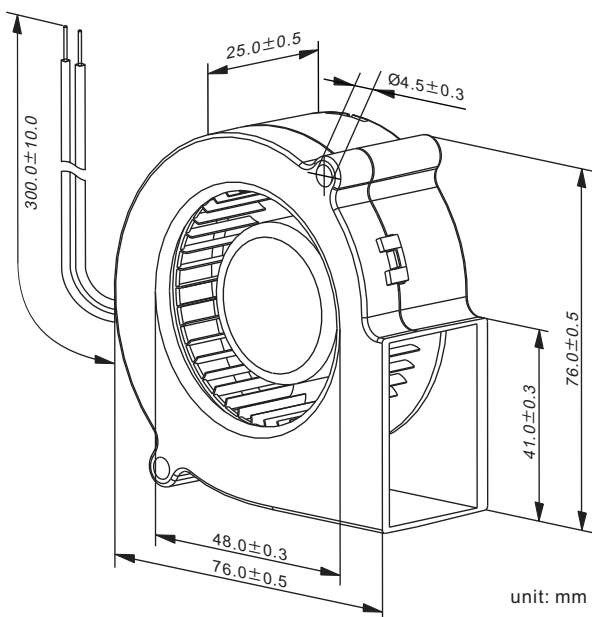


**ES** **IP** **SF**

Model Number		Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC BLOWER 93x93x30mm



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

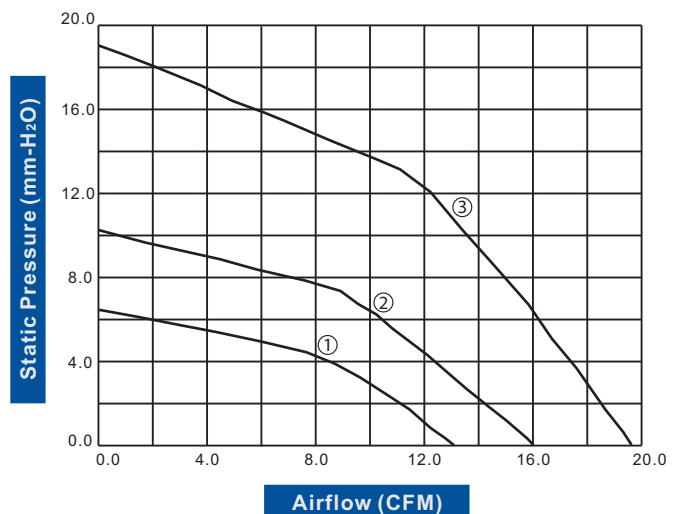
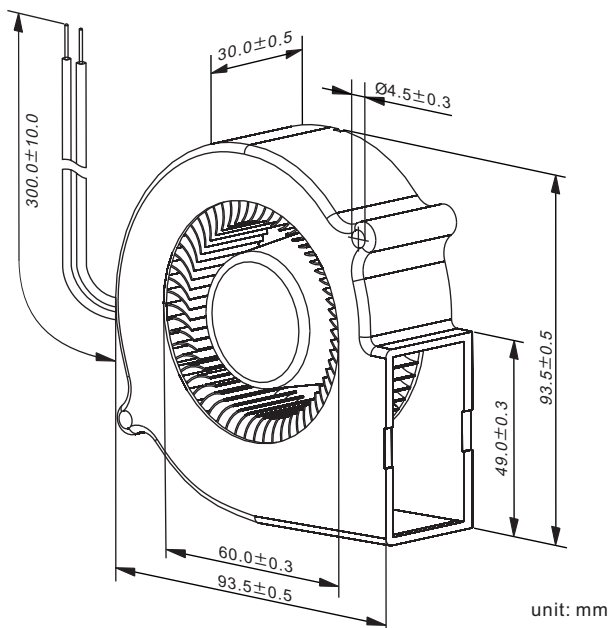


DC Blowers

Model Number	Voltage (VDC)	Op. Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~70°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #24 AWG  
 Weight: 165 g      Packing: 60PCS/CTN



SS

IP

SF

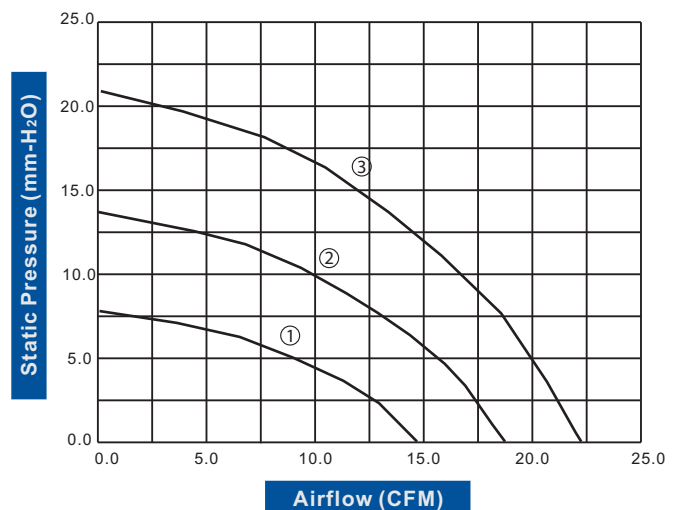
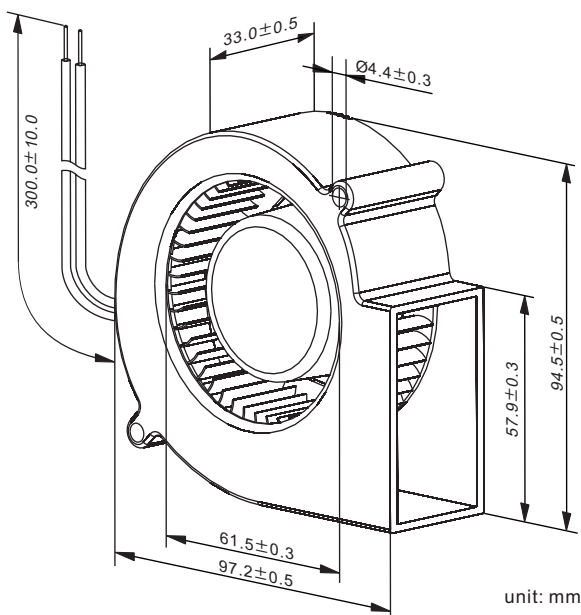


DC Blowers

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC BLOWER 97x94x33mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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 #26 AWG  
 Weight: 142 g      Packing: 60PCS/CTN



ES

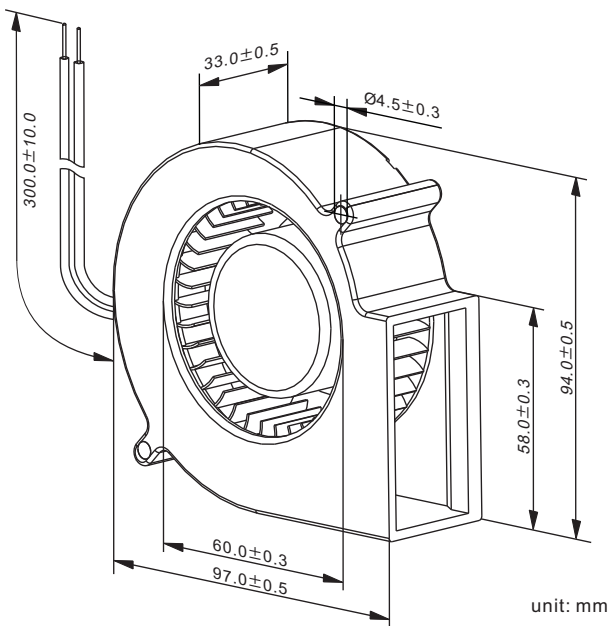
IP

SF

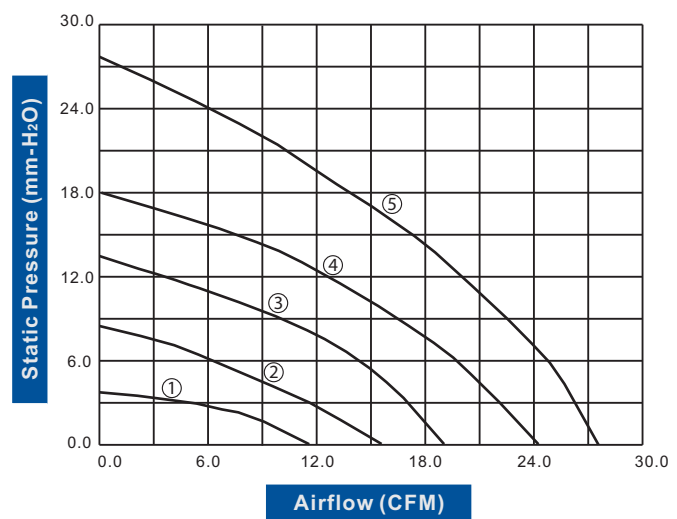
Model Number		Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FBD9733B12W1-81	★	12	8.0~13.8	11.50	4.00	30.00	1,500	80	0.96	B	①
FBD9733B12W2-81	★	12	8.0~13.8	15.60	8.20	39.90	2,000	140	1.68	B	②
FBD9733B12W3-81	★	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





# 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: -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: 240 g      Packing: 40PCS/CTN



SS IP SF

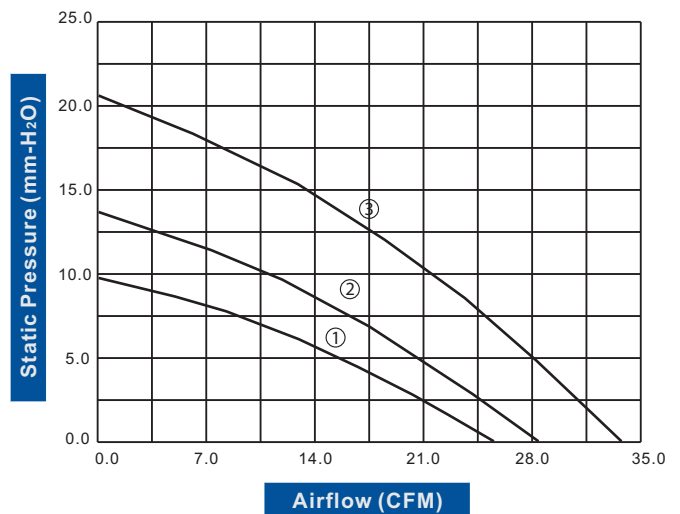
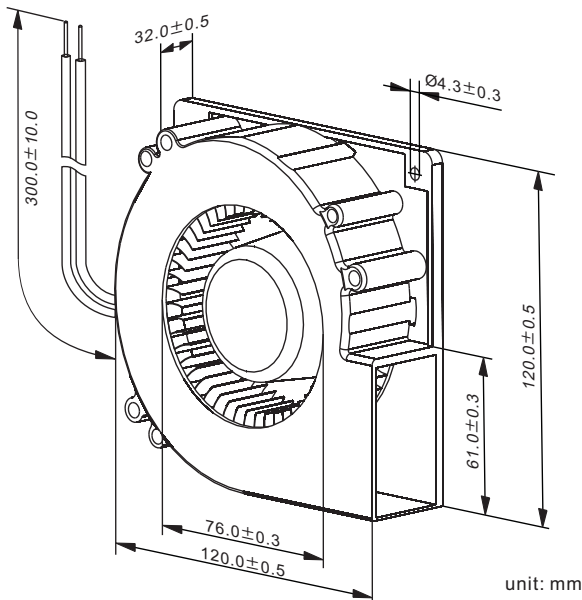


DC Blowers

Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# DC BLOWER 120x120x32mm



Housing/Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10M $\Omega$ , 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 #24 AWG  
 Weight: 307 g      Packing: 40PCS/CTN



ES IP SF

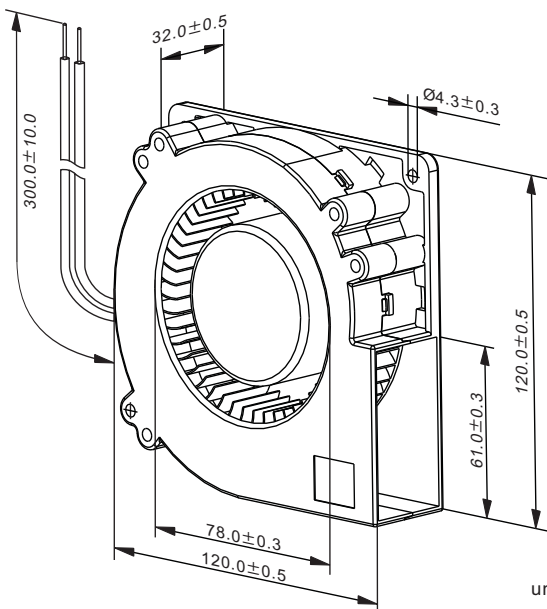


DC Blowers

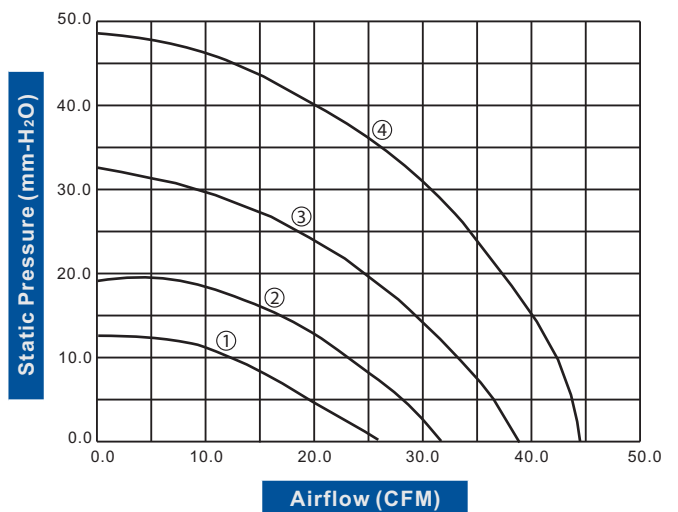
Model Number	Voltage (VDC)	Op.Voltage (VDC)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FBD1232B12W3-81 ★	12	8.0~13.8	25.70	12.00	42.80	2,000	340	4.08	B	①
FBD1232B12W5-81 ★	12	8.0~13.8	31.90	19.50	47.30	2,500	630	7.56	B	②
FBD1232B12W7-81 ★	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.

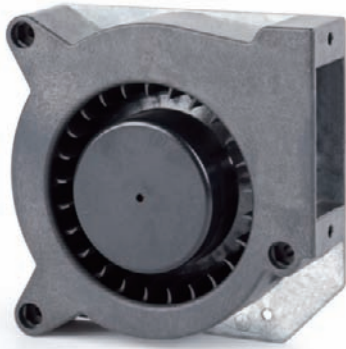
Specifications are subject to change without notice



unit: mm



# DC BLOWER 121x121x37mm



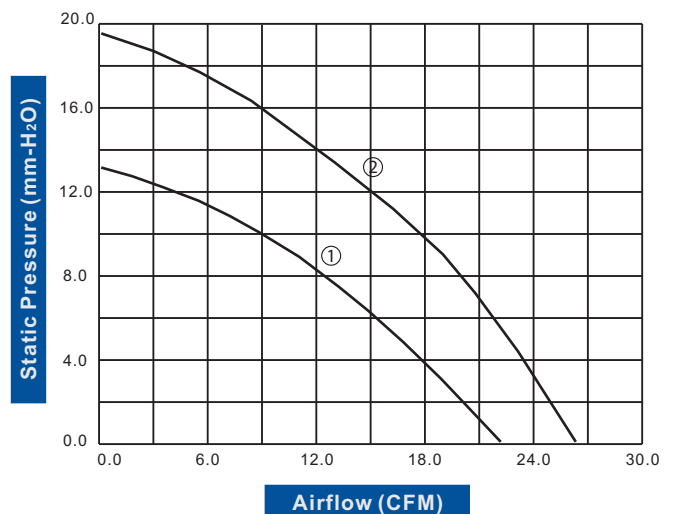
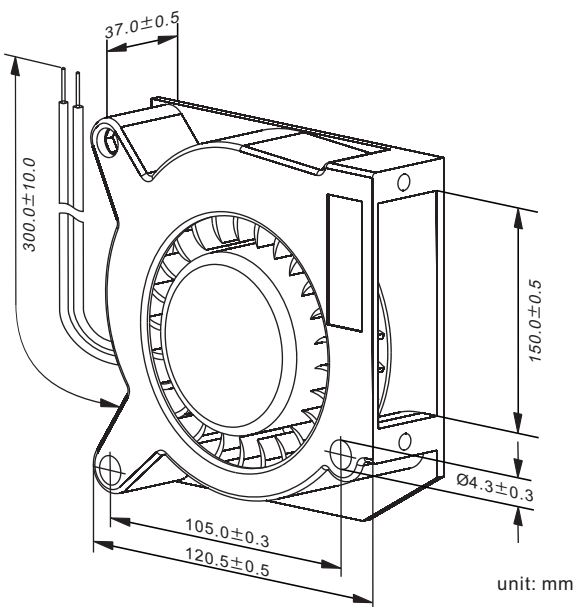
Spiral Housing: Fiberglass-Reinforced Polycarbonate  
 Housing Base: Galvanized Steel Plate  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 10MΩ, 500VDC/min between bare wire and frame  
 Dielectric Strength: 5mA max. 500VAC/min between bare wire and frame  
 Operation Temperature: -20°C~70°C(Humidity 15%-90%RH)  
 Storage Temperature: -40°C~85°C(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)	Air Flow (CFM)	Static Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 35%-85%RH)  
**Storage Temperature:** -40°C~70°C(Humidity 35%-85%RH)  
**Lead Wire:** UL Type #22 AWG  
**Weight:** 926 g      **Packing:** 12PCS/CTN



SS

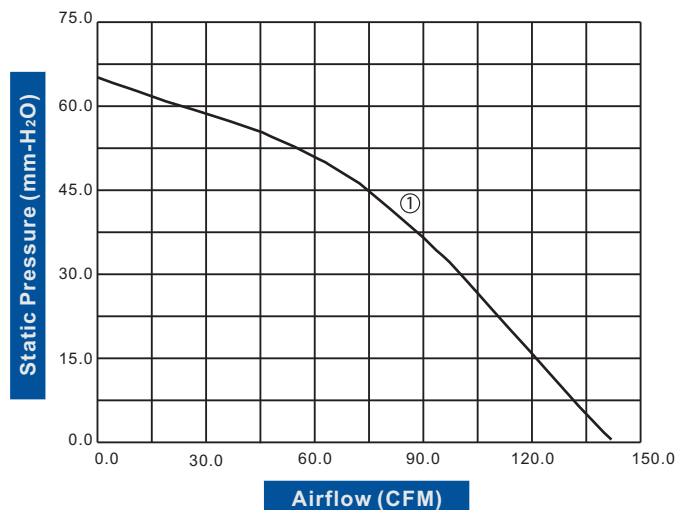
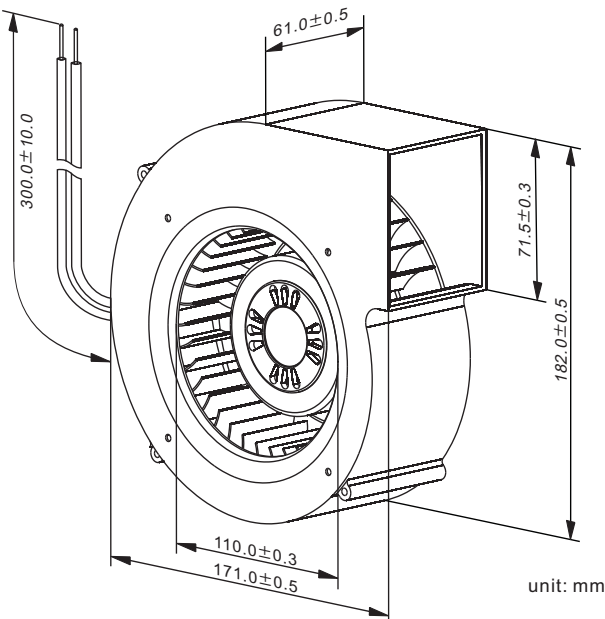
IP

SF

Model Number	Voltage (VDC)	Op.Voltage (VDC)	AirFlow (CFM)	StaticPres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN 80x80x25mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

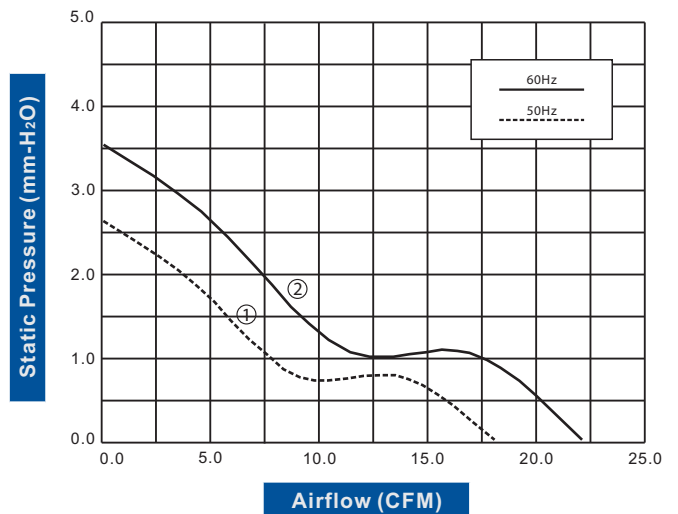
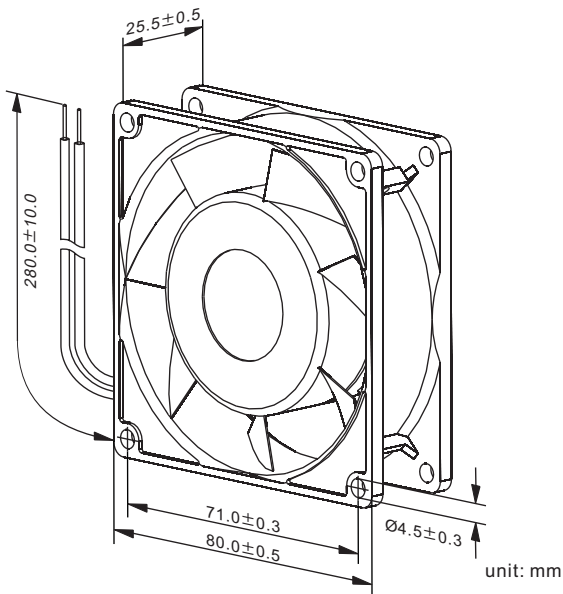


ES IP

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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 minute  
 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

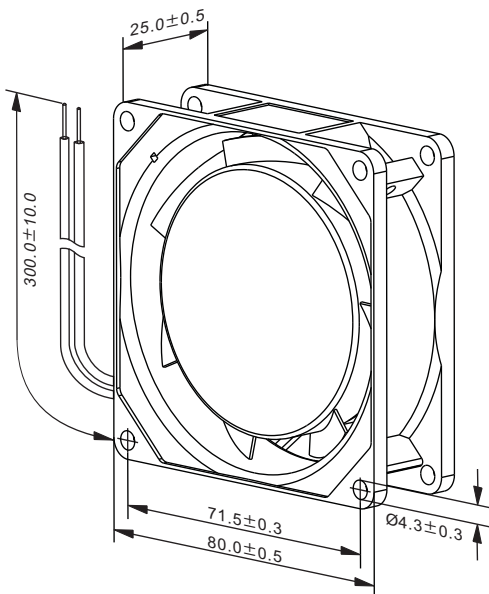


SS IP

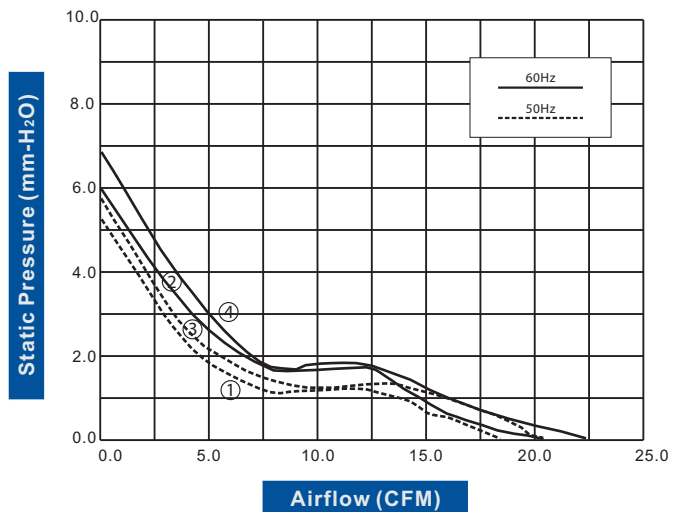
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA8025B11T5-96	115	50/60	18.3/20.3	5.2/5.9	28.6/32.5	2,400/3,100	130/110	12/10	B,S	①/②
FA8025B11T7-96	115	50/60	20.3/22.3	5.7/6.4	29.6/33.5	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: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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**

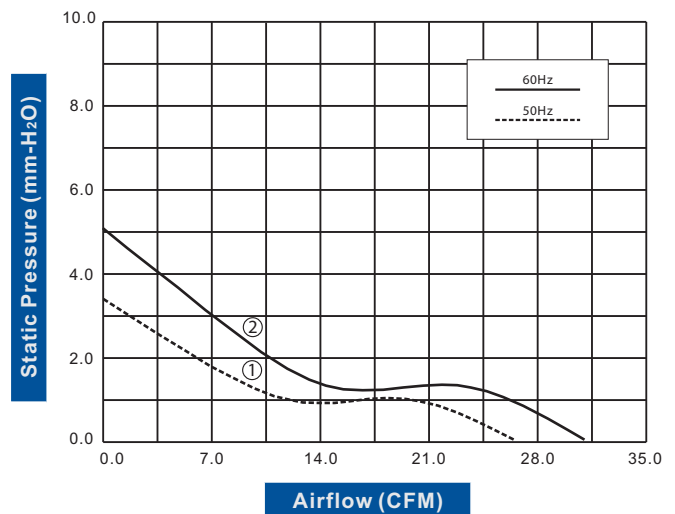
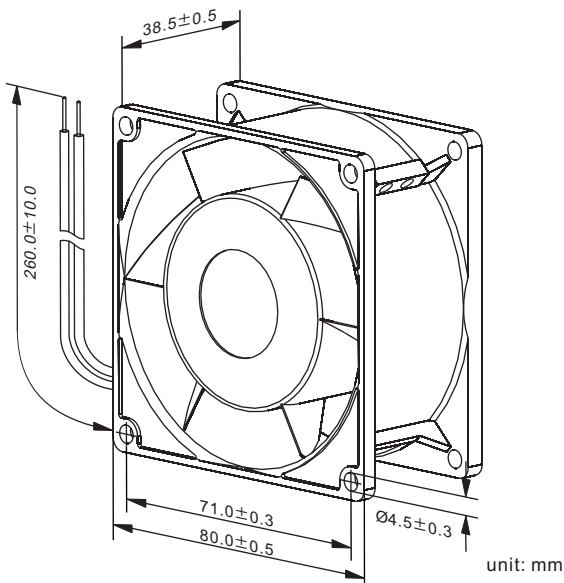
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA8038B11T7-51	115	50/60	26.0/31.0	3.4/5.0	35.0/39.0	2,700/3,100	150/120	11/9	B,S	①/②
FA8038B22T7-51	230	50/60	26.0/31.0	3.4/5.0	35.0/39.0	2,700/3,100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



AC Axial Fans





# AC AXIAL FAN 80x80x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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



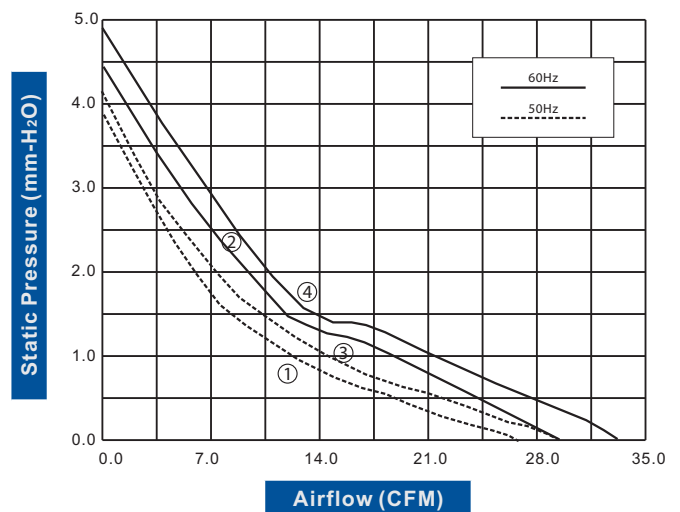
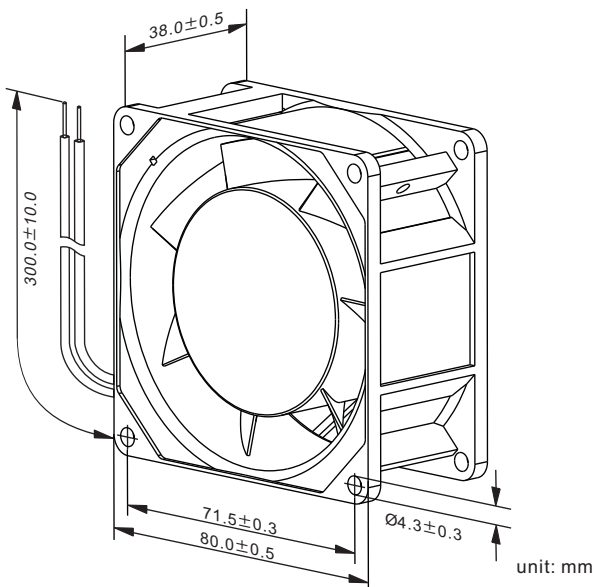
SS

IP

Model Number	Voltage (VAC)	Frequency (Hz)	Air Flow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN 92x92x25mm



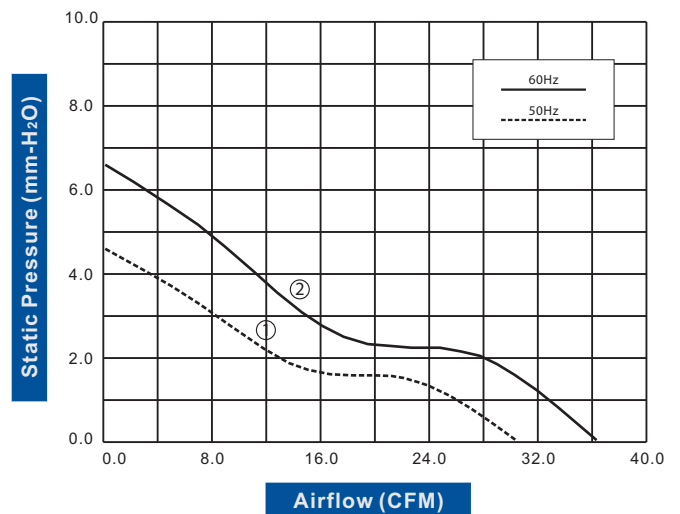
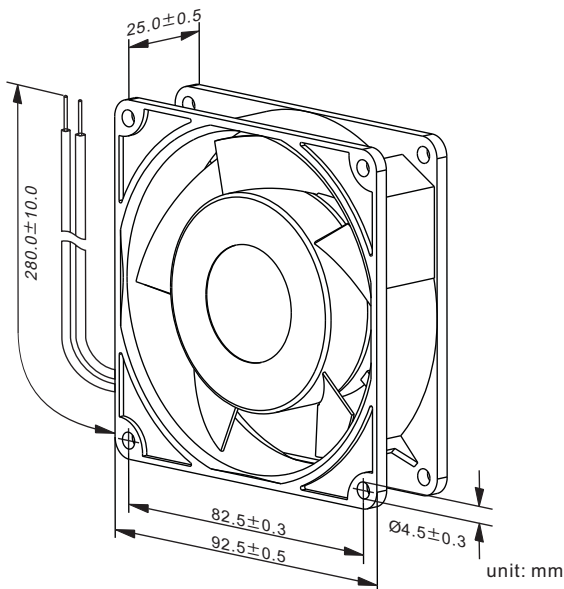
**ES IP**

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 minute  
 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**

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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 minute  
 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

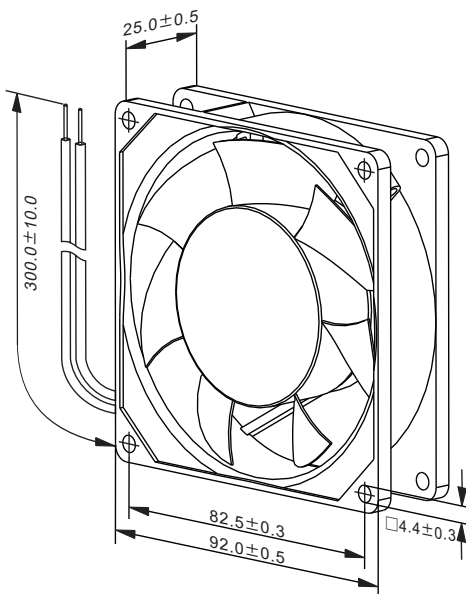


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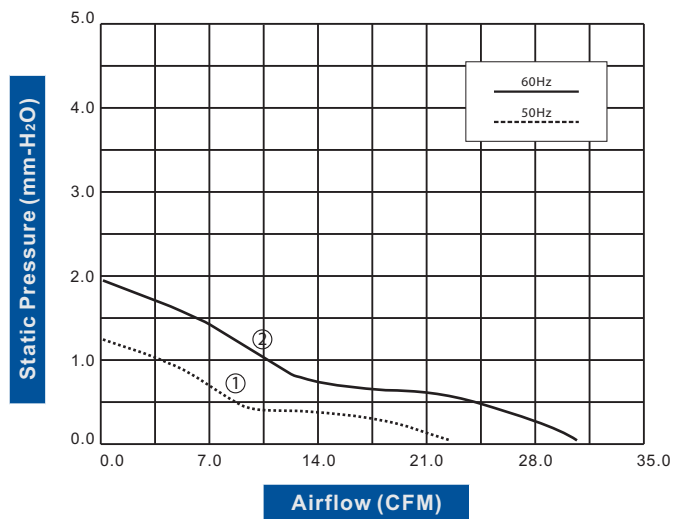
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA9225B11T7-61	115	50/60	22.3/30.5	1.2/1.9	21.7/25.6	1,400/1,900	130/130	13/11	B,S	①/②
FA9225B22T7-61	230	50/60	22.3/30.5	1.2/1.9	21.7/25.6	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: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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



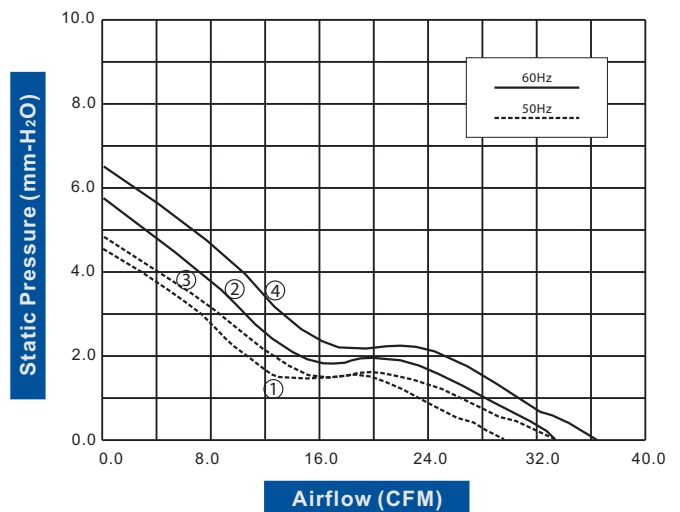
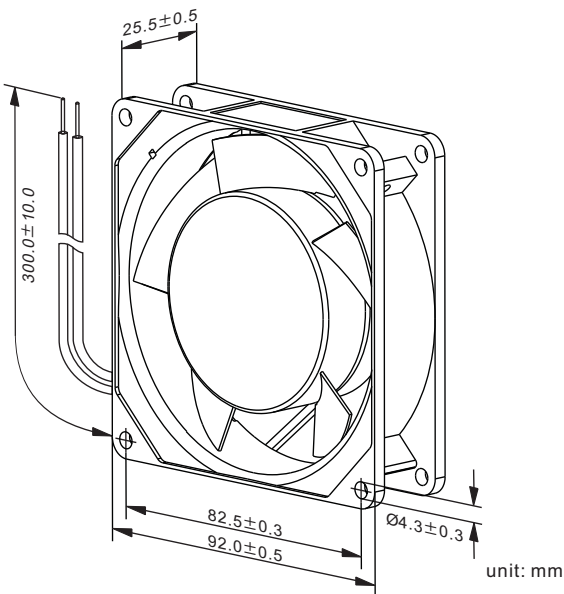
SS

IP

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN 92x92x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

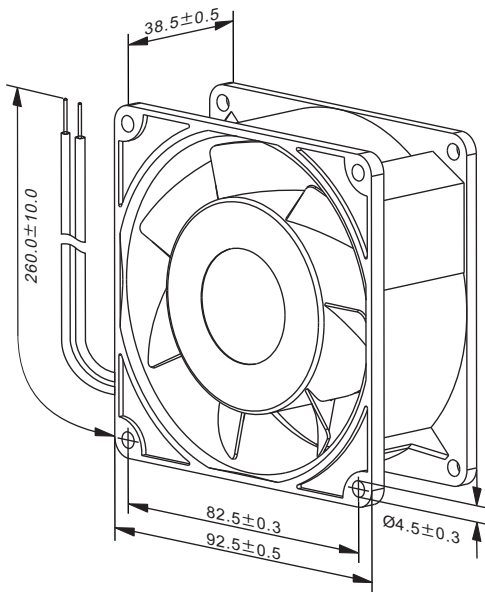


**ES** **IP**

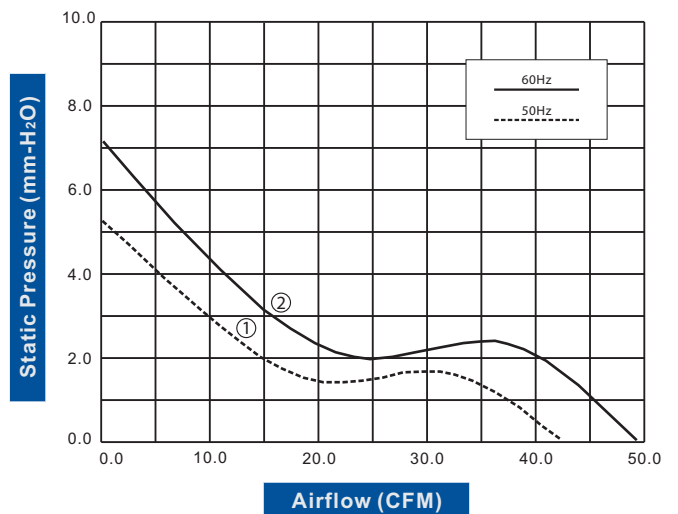
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA9238B11T7-51	115	50/60	42.0/49.0	5.2/7.1	40.0/45.0	2,800/3,200	190/150	14/11	B,S	①/②
FA9238B22T7-51	230	50/60	42.0/49.0	5.2/7.1	40.0/45.0	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: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

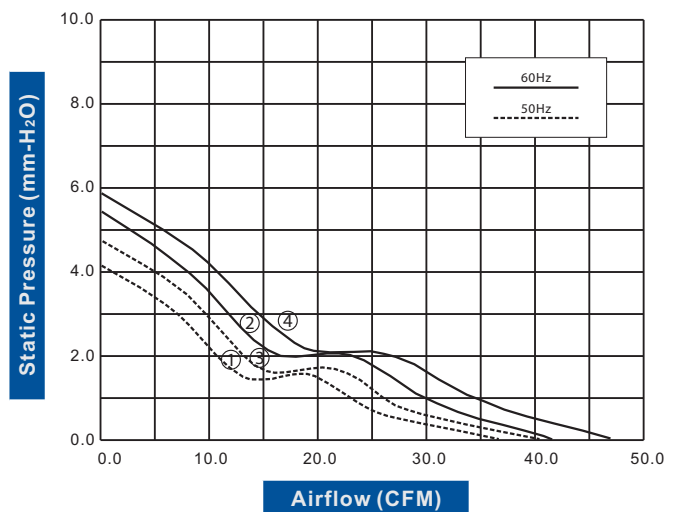
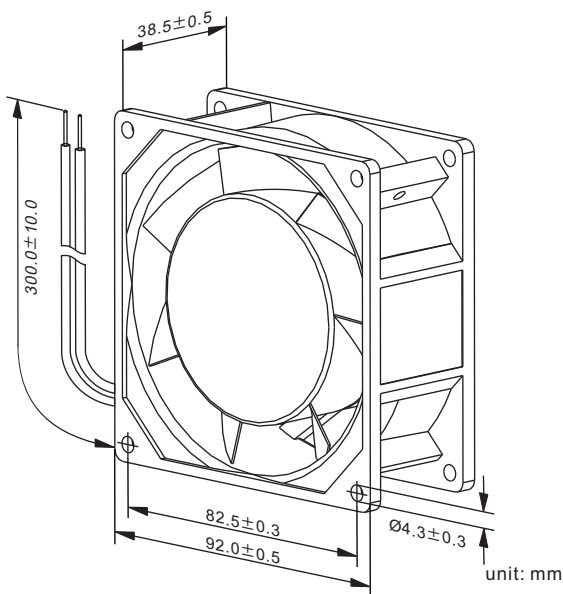


SS IP

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

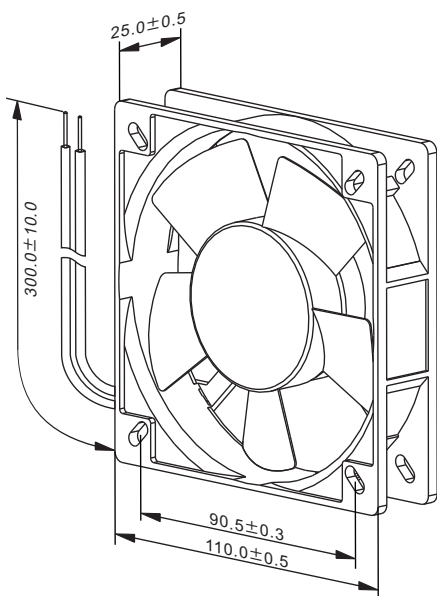


SS IP

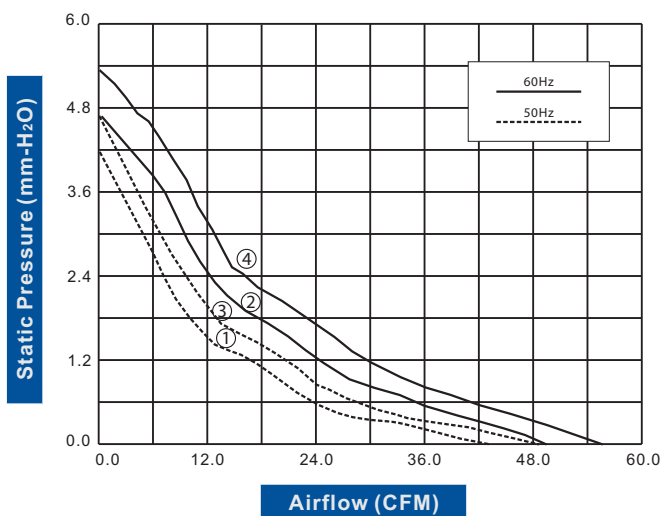
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1125B11T5-96	115	50/60	43.6/49.7	4.1/4.6	36.4/39.4	2,000/2,200	130/110	12/10	B,S	①/②
FA1125B11T7-96	115	50/60	48.7/55.8	4.6/5.2	38.4/41.4	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 minute  
 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

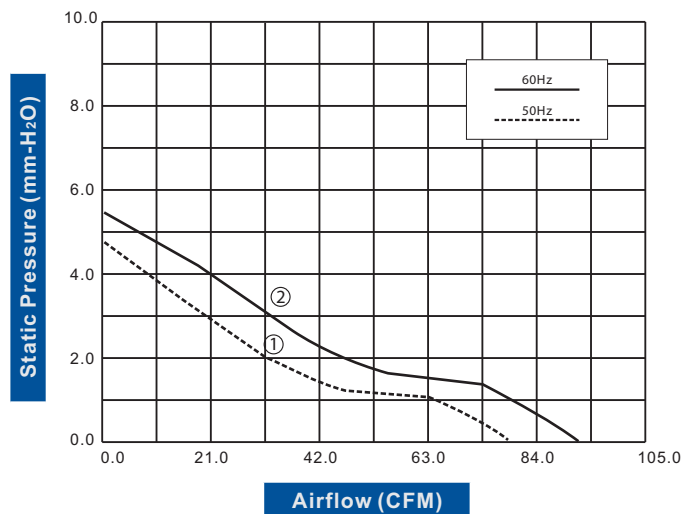
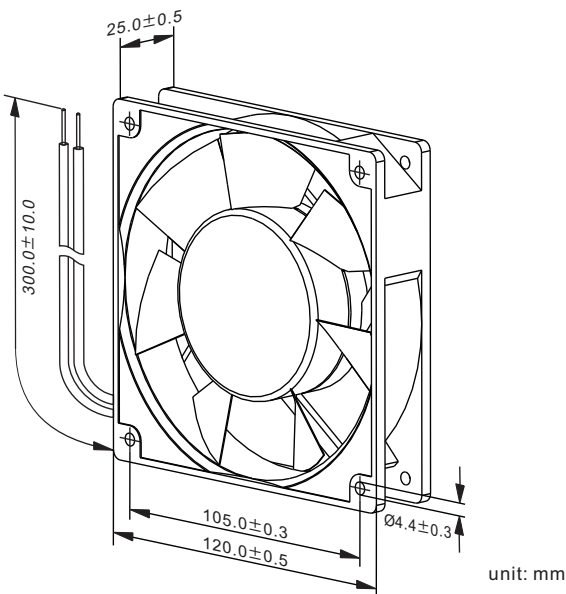


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN 120x120x25mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

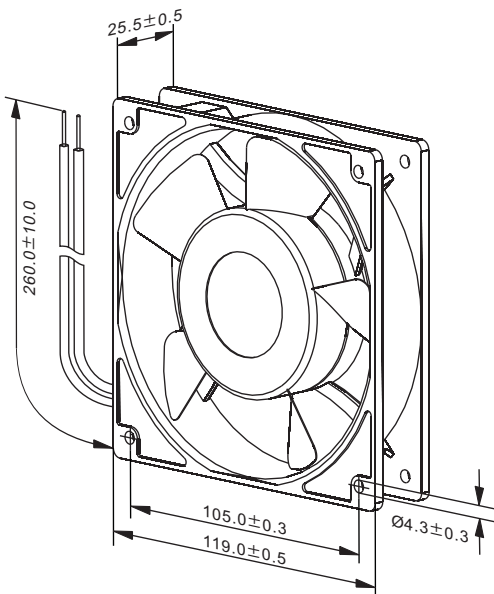


**ES** **IP**

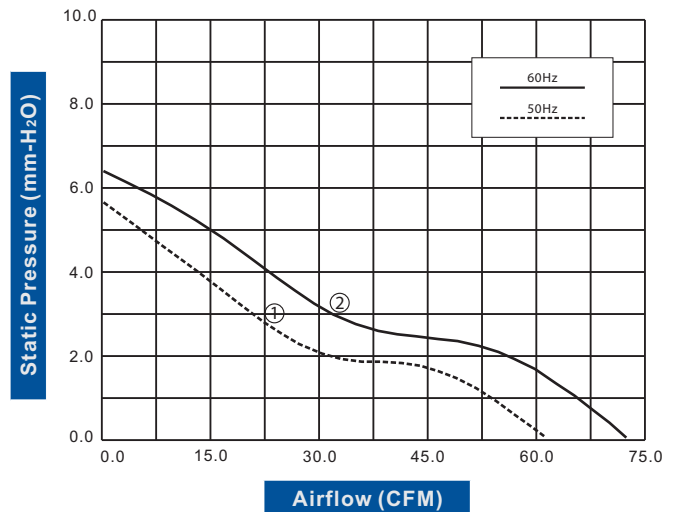
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1225B11T7-51	115	50/60	61.0/72.0	5.6/6.3	42.0/45.0	2,600/3,100	150/120	13/10	B,S	①/②
FA1225B22T7-51	230	50/60	61.0/72.0	5.6/6.3	42.0/45.0	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: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

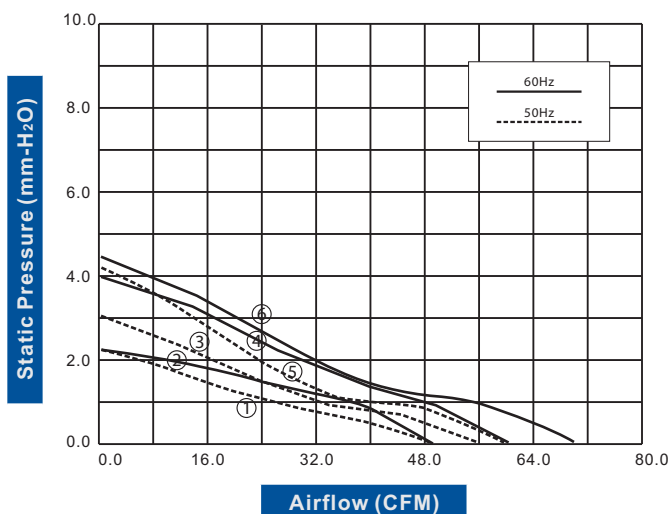
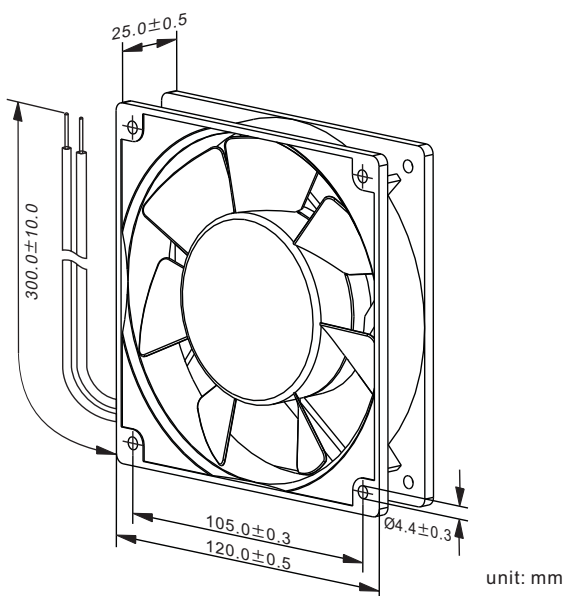


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN 120x120x25mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

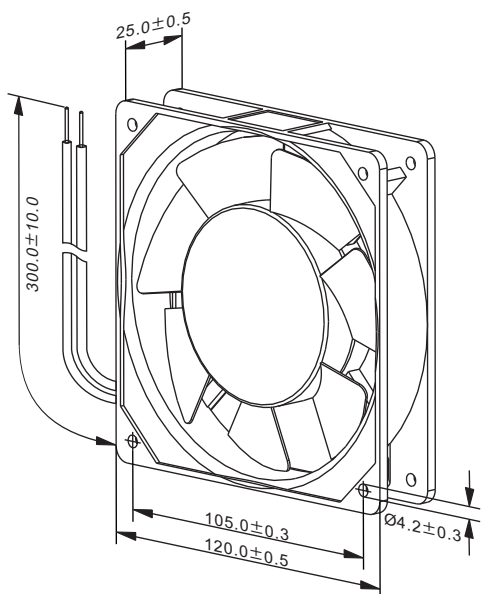


**SS IP**

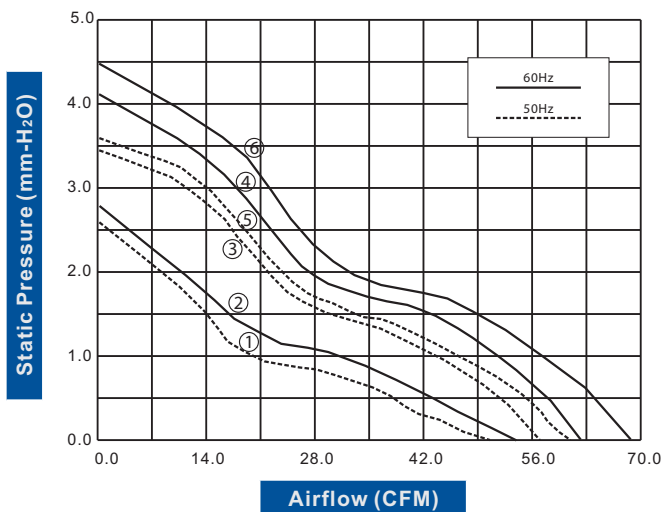
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1225B11T5-96	115	50/60	50.8/53.8	2.6/2.8	29.6/31.5	2,000/2,200	120/100	11/9	B,S	①/②
FA1225B11T7-96	115	50/60	56.8/62.9	3.4/4.1	35.5/37.4	2,100/2,400	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 minute  
 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

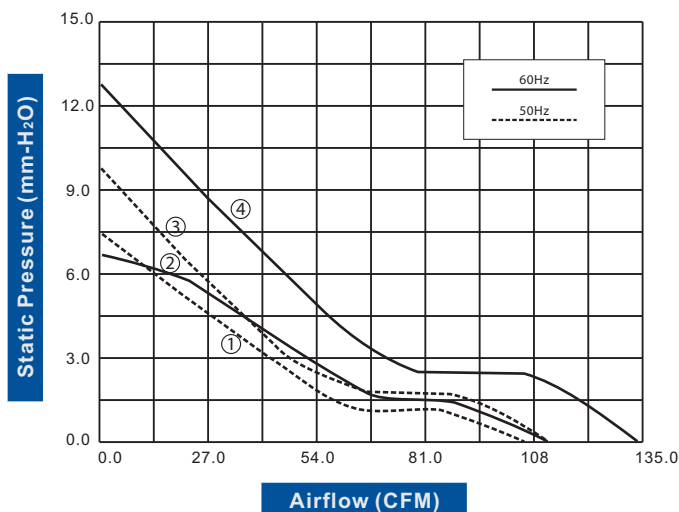
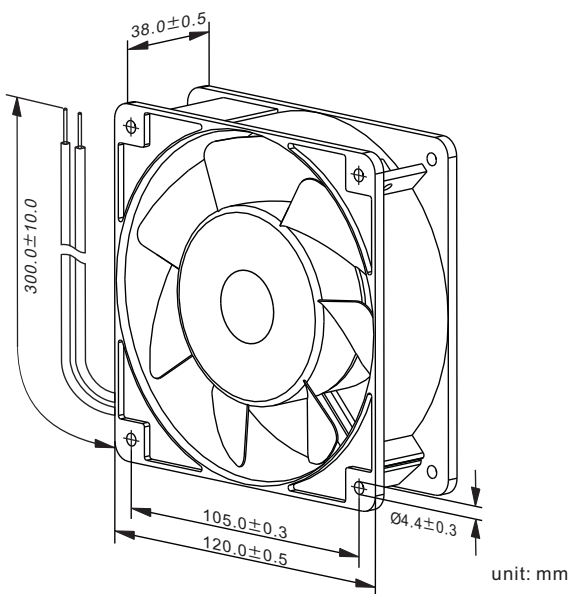
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11T7C-31	115	50/60	105.6/110.6	7.4/6.6	38.4/42.4	2,550/2,800	150/160	13/14	B,S	①/②
FA1238B11T9C-31	115	50/60	110.6/132.0	9.7/12.7	42.4/46.3	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



AC Axial Fans



# 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 minute  
 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

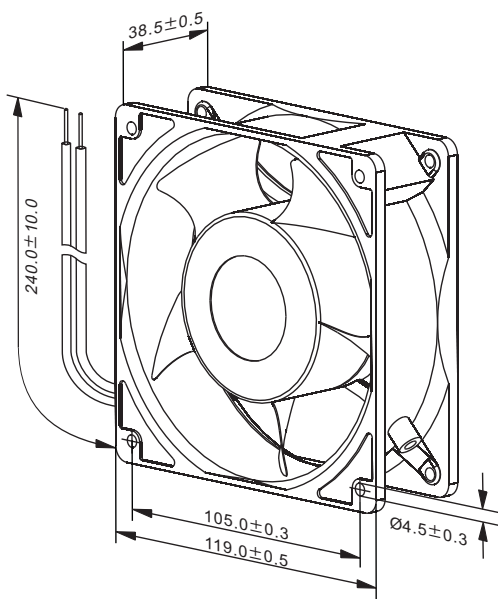


**ES** **IP**

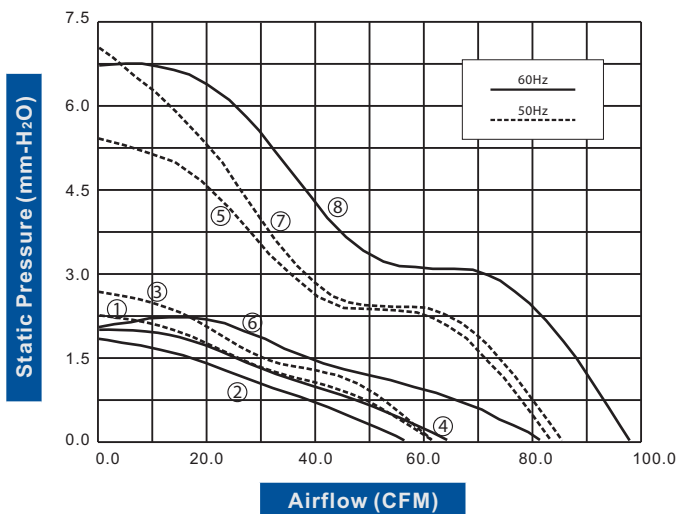
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11T1-51	115	50/60	61.0/56.0	2.3/1.8	34.0/33.0	1,900/1,700	80/70	7/6	B,S	①/②
FA1238B11T3-51	115	50/60	61.0/64.0	2.7/2.1	34.0/35.0	2,000/1,900	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: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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**

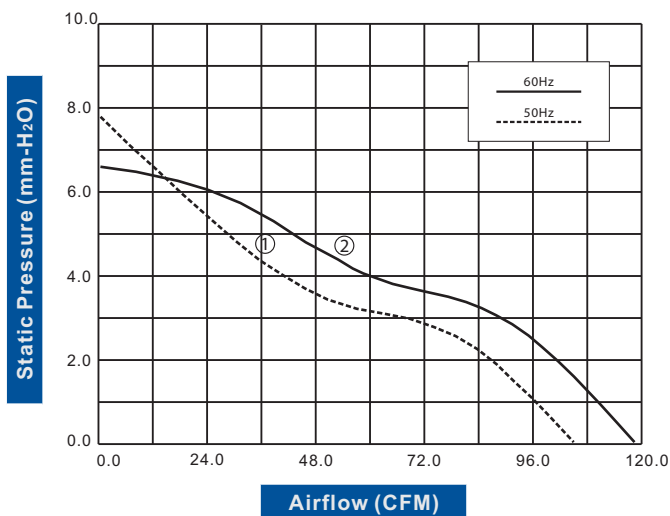
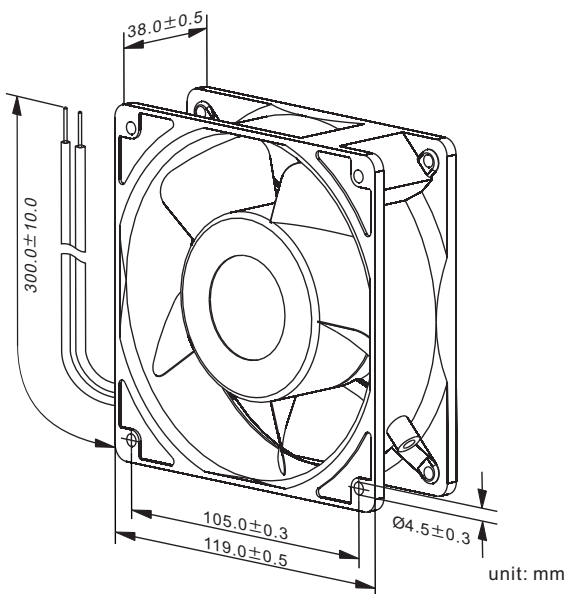
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11T7-52	115	50/60	103.0/117.0	7.8/6.6	43.0/47.0	2,700/3,000	220/180	16/14	B,S	①/②
FA1238B22T7-52	230	50/60	103.0/117.0	7.8/6.6	43.0/47.0	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



AC Axial Fans





# 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 minute  
 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

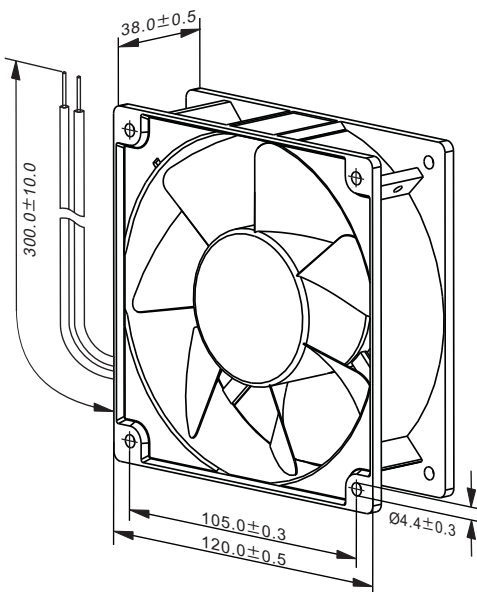
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11T3-61	115	50/60	79.2/92.4	3.6/4.4	34.5/37.4	2,100/2,450	200/200	14/13	B,S	①/②
FA1238B11T5-61	115	50/60	92.4/101.5	6.3/7.1	38.4/41.4	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".

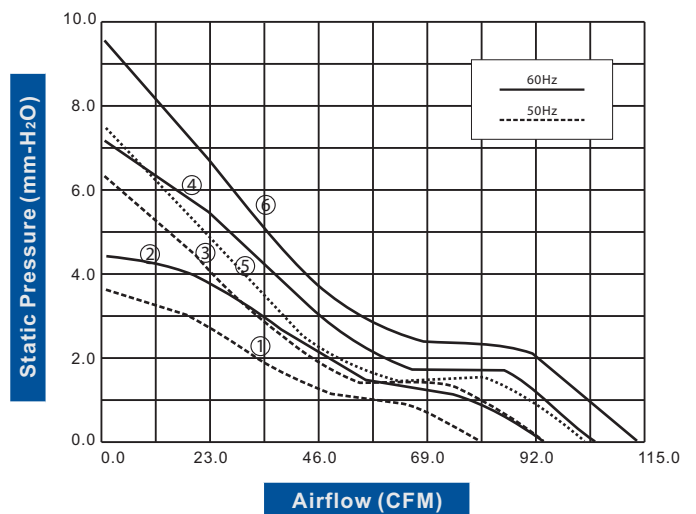
Specifications are subject to change without notice



AC Axial Fans



unit: mm



# AC AXIAL FAN 120x120x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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**

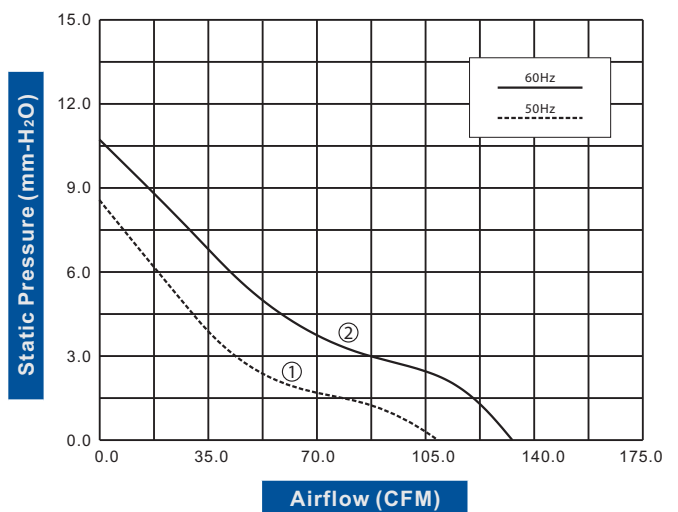
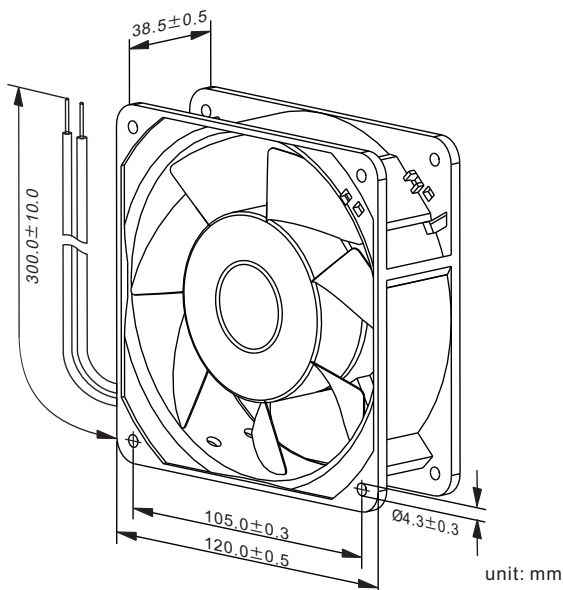
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11W5-78	115	50/60	109.0/130.0	8.6/10.8	43.0/47.0	2,700/3,200	170/180	22/22	B,S	①/②
FA1238B22W5-78	230	50/60	109.0/130.0	8.6/10.8	43.0/47.0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



AC Axial Fans



# AC AXIAL FAN 120x120x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

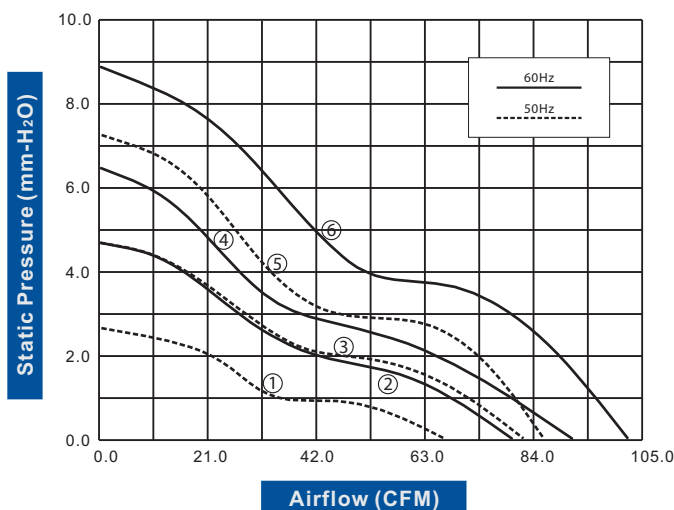
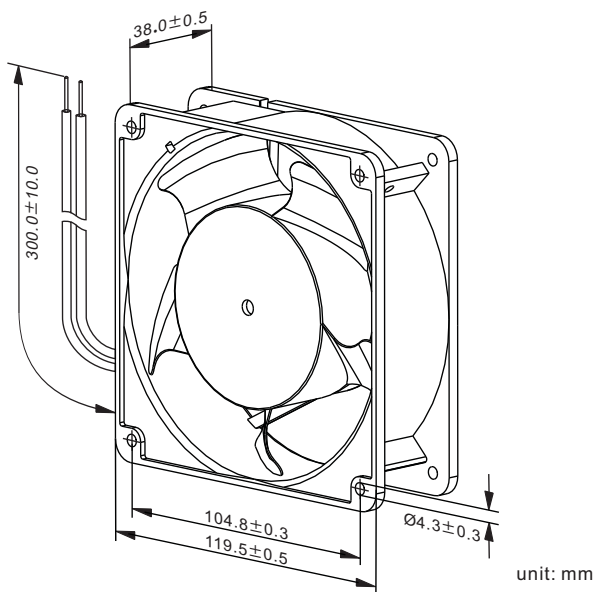


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN 120x120x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 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**

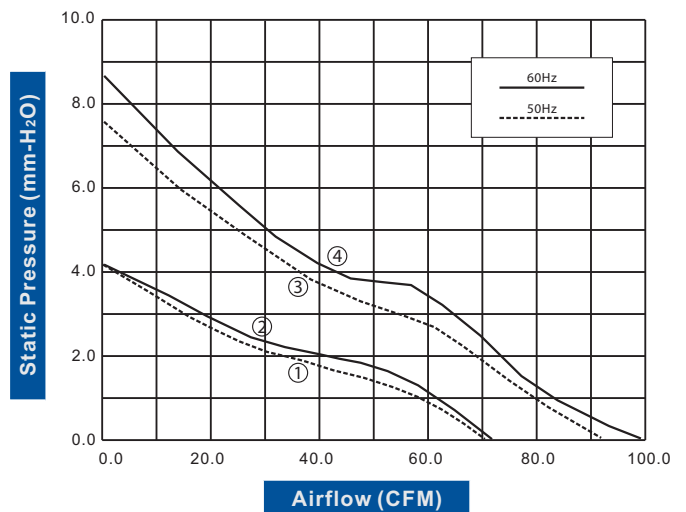
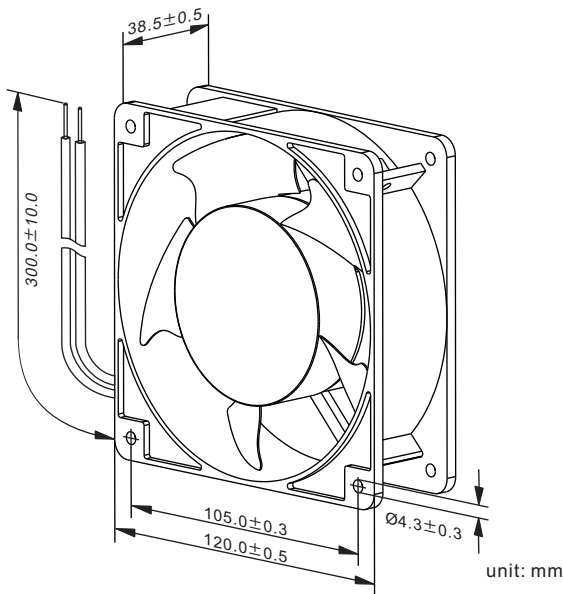
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11T5-96	115	50/60	71.1/74.1	4.1/4.1	29.6/34.5	2,300/2,600	150/130	12/10	B,S	①/②
FA1238B11T7-96	115	50/60	91.4/99.5	7.7/8.5	39.4/44.3	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



AC Axial Fans



# AC AXIAL FAN 120x120x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

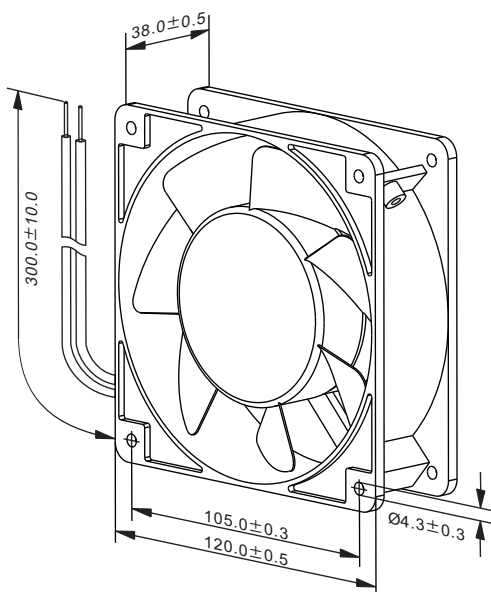
Model Number	Voltage (VAC)	Frequency (Hz)	Air Flow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11T7-97	115	50/60	104.5/109.6	7.6/9.1	43.3/47.3	2,400/2,600	280/230	22/18	B,S	①/②
FA1238B22T7-97	230	50/60	104.5/109.6	7.6/9.1	43.3/47.3	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".

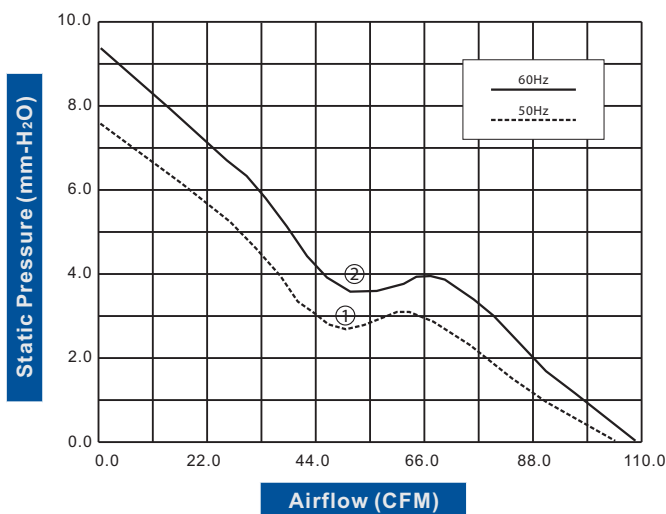
Specifications are subject to change without notice



AC Axial Fans



unit: mm



# AC AXIAL FAN 127x127x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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**

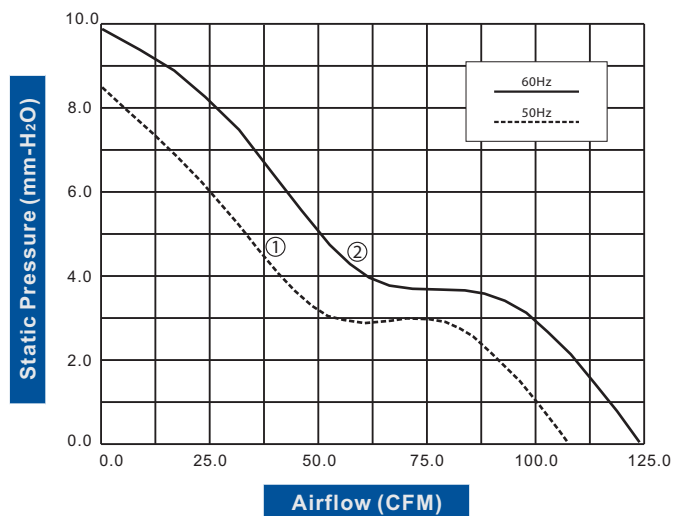
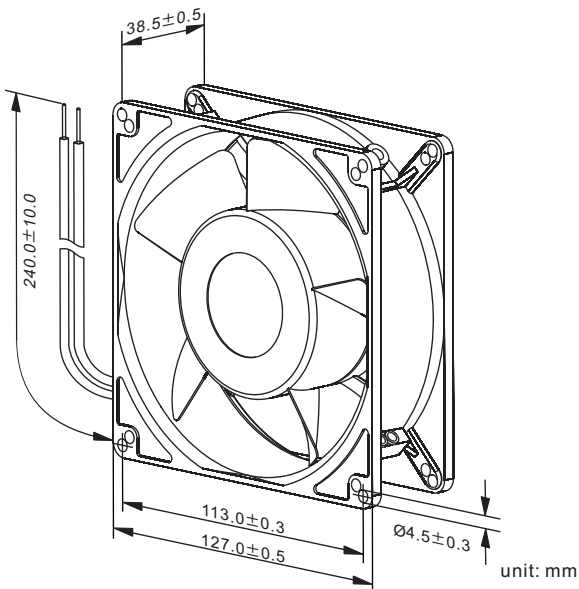
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1238B11T7-53	115	50/60	107.0/123.0	8.4/9.8	47.0/50.0	2,700/3,100	320/260	24/20	B,S	①/②
FA1238B22T7-53	230	50/60	107.0/123.0	8.4/9.8	47.0/50.0	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



AC Axial Fans



# AC AXIAL FAN 159x159x50mm

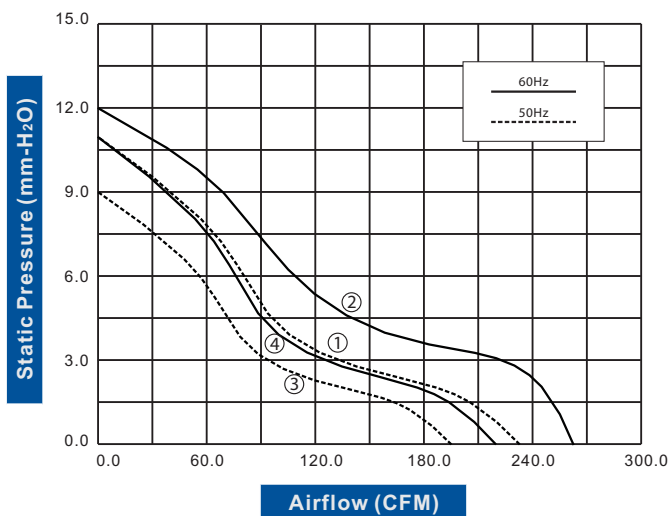
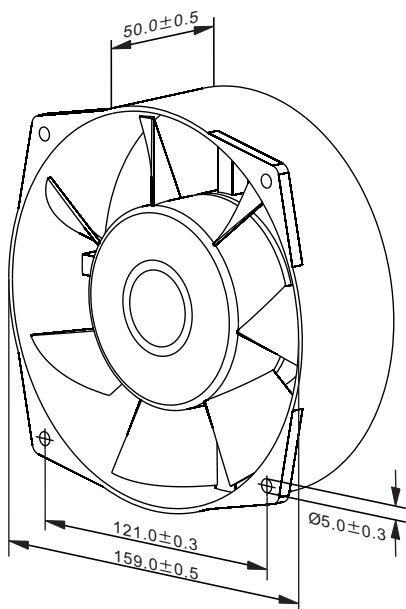


Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100MΩ, 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 Operation Temperature: -10°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)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

**ES** **IP**

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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**

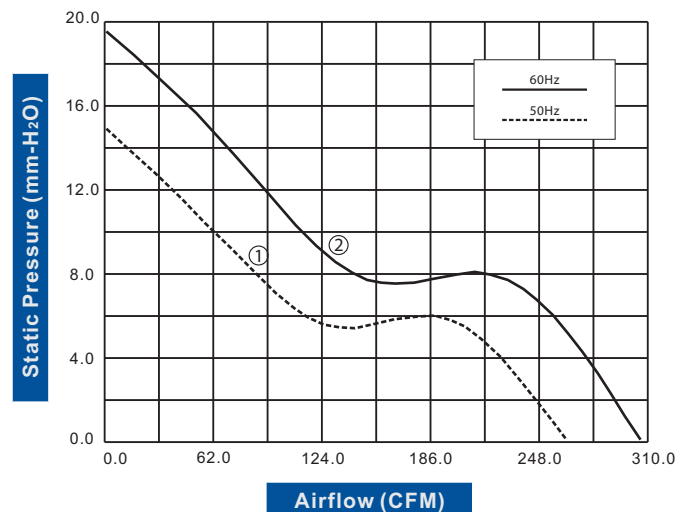
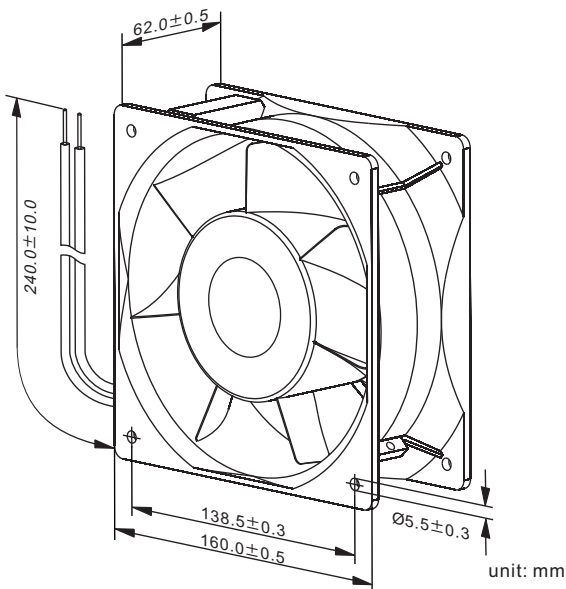
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1662B11T7C-51	115	50/60	261.0/307.0	14.7/19.6	60.0/64.0	2,900/3,400	450/500	51/58	B	①/②
FA1662B22T7C-51	230	50/60	261.0/305.0	14.7/19.6	60.0/64.0	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



AC Axial Fans



# AC AXIAL FAN 160x160x62mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Injection Molded of Flame Retardant Polycarbonate, Black  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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**

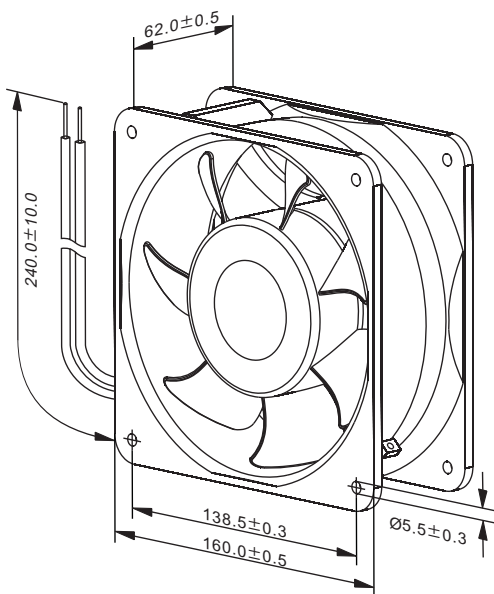
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1662B11T7C-52	115	50/60	241.0/285.0	13.6/18.7	51.0/56.0	2,900/3,400	450/500	51/57	B	①/②
FA1662B22T7C-52	230	50/60	239.0/288.0	13.6/18.7	51.0/56.0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

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

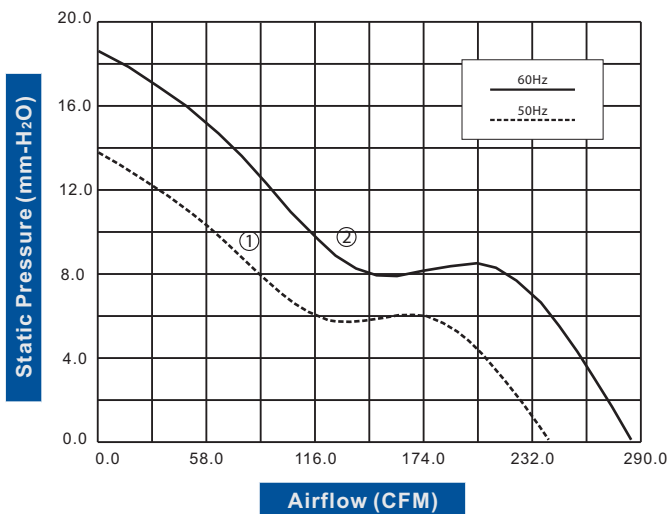
Specifications are subject to change without notice



AC Axial Fans



unit: mm



# AC AXIAL FAN 170x150x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

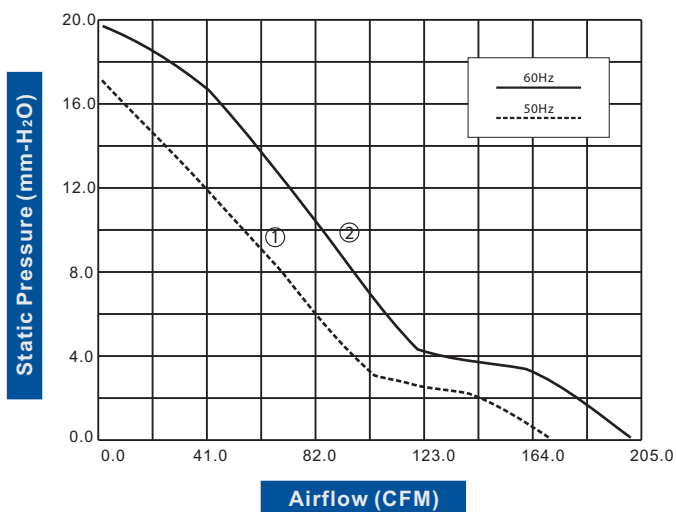
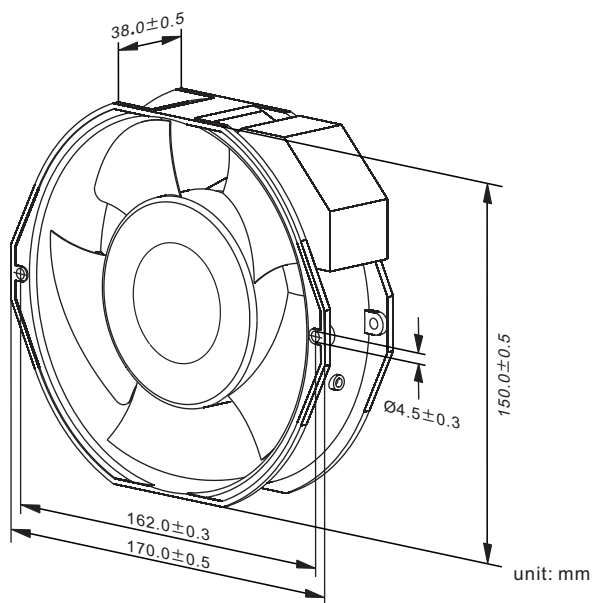
Model Number	Voltage (VAC)	Frequency (Hz)	Air Flow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1738B11T7C-31	115	50/60	168.5/201.0	17.0/19.8	56.1/60.1	2,850/3,300	250/260	30/31	B	①/②
FA1738B22T7C-31	230	50/60	168.5/201.0	17.0/19.8	56.1/60.1	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 Fans



# 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 minute  
 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**

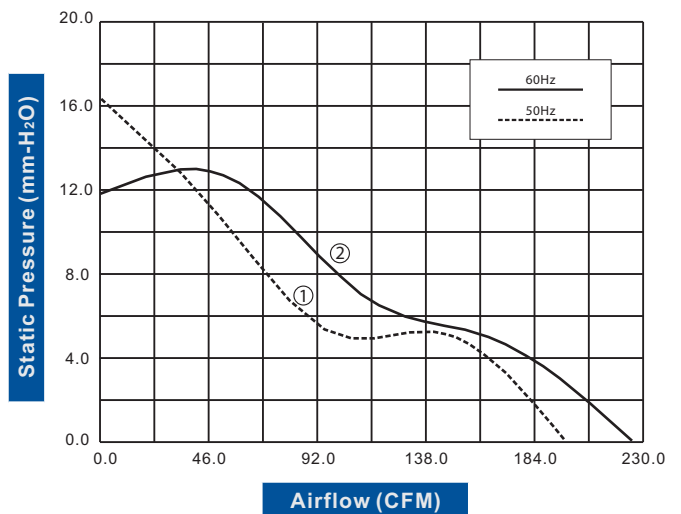
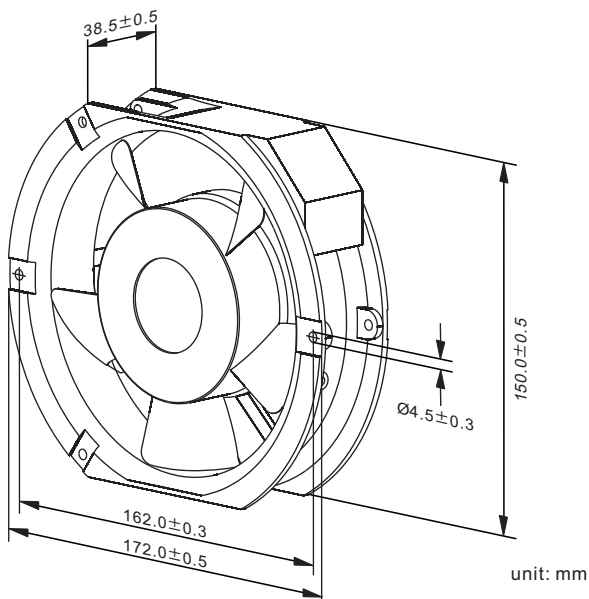
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1738B11T7C-51	115	50/60	198.0/225.0	16.3/11.9	58.0/62.0	2,900/3,300	220/290	25/32	B	①/②
FA1738B22T7C-51	230	50/60	198.0/225.0	16.3/11.9	58.0/62.0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



AC Axial Fans



# AC AXIAL FAN 172x150x38mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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



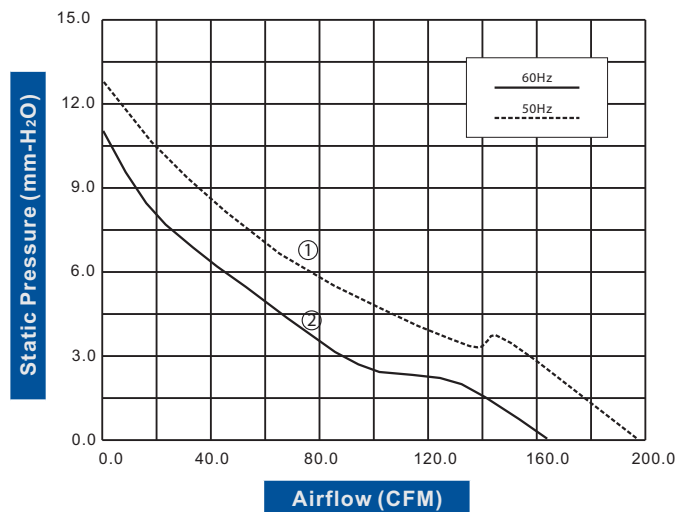
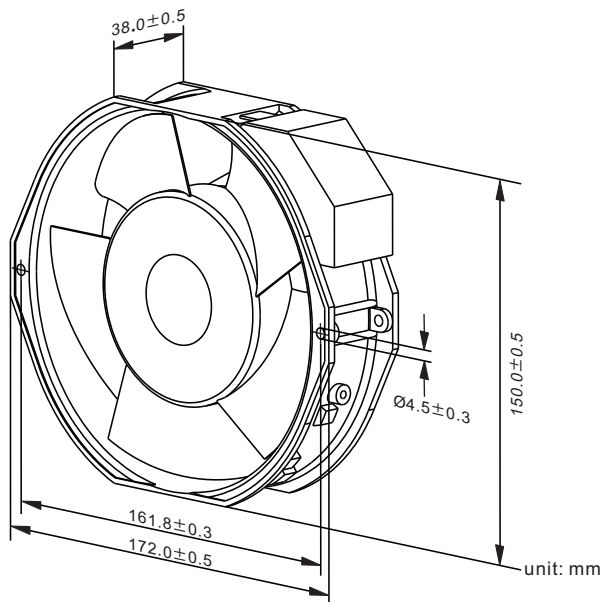
SS

IP

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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 minute  
 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

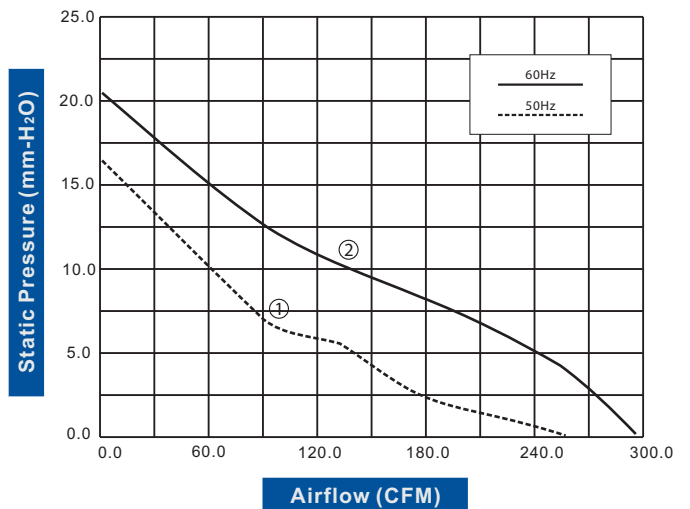
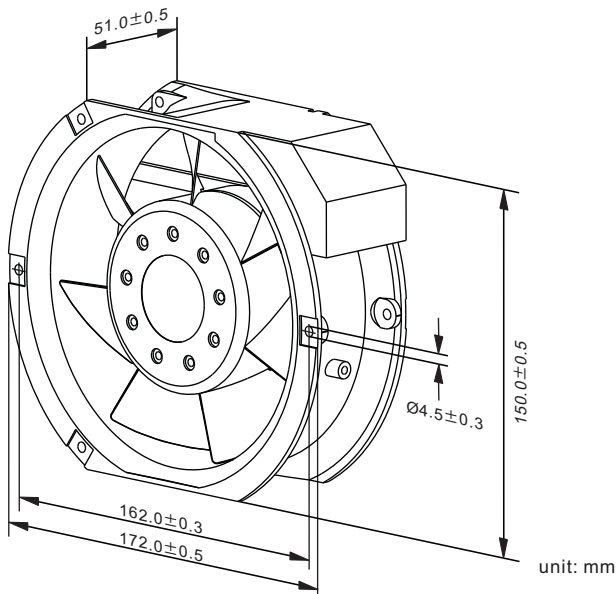


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN Ø 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 minute  
 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

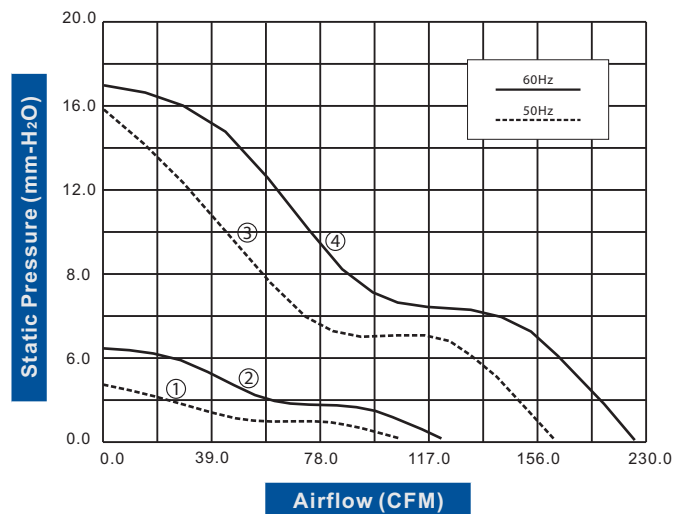
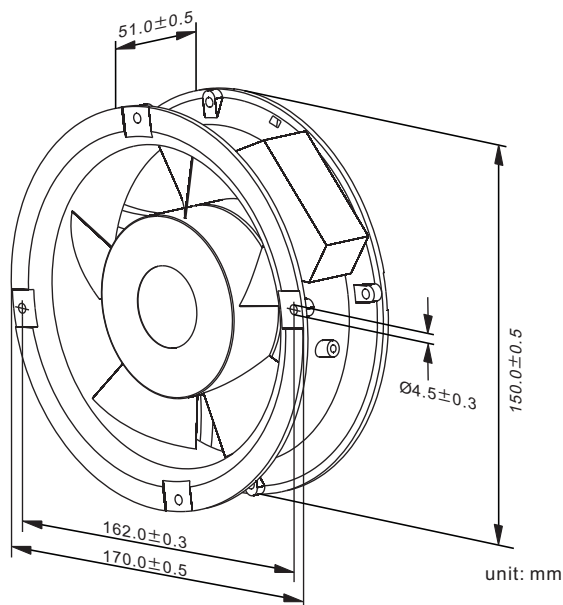


**ES** **IP**

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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: 100M $\Omega$ , 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**

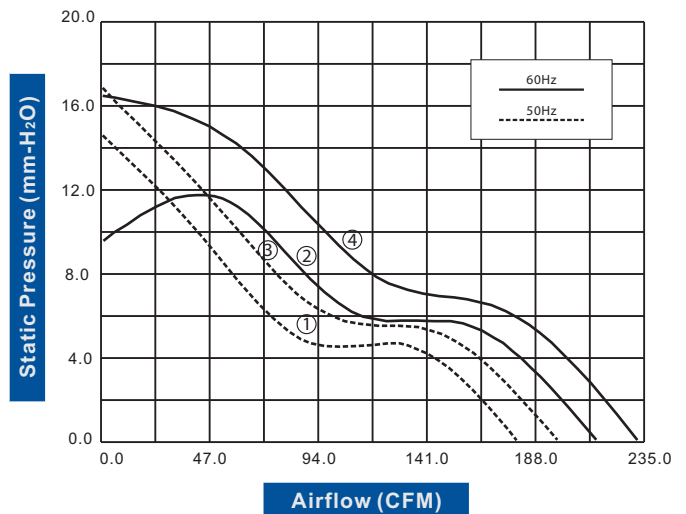
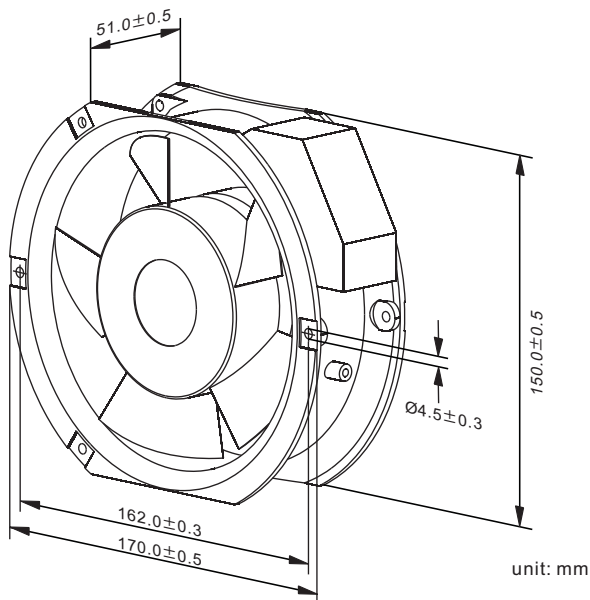
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1751B11T7-52	115	50/60	178.0/210.0	14.3/9.4	54.0/58.0	2,800/3,300	760/530	47/36	B	①/②
FA1751B22T7-52	230	50/60	183.0/212.0	14.3/9.4	54.0/58.0	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



AC Axial Fans



# AC AXIAL FAN 172x150x51mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

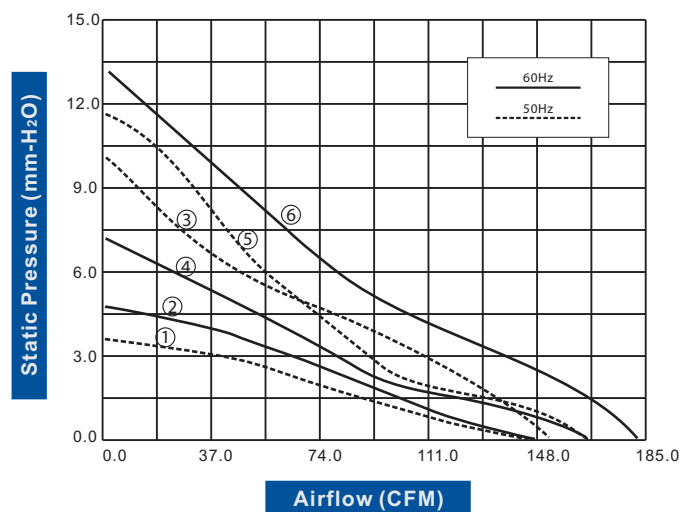
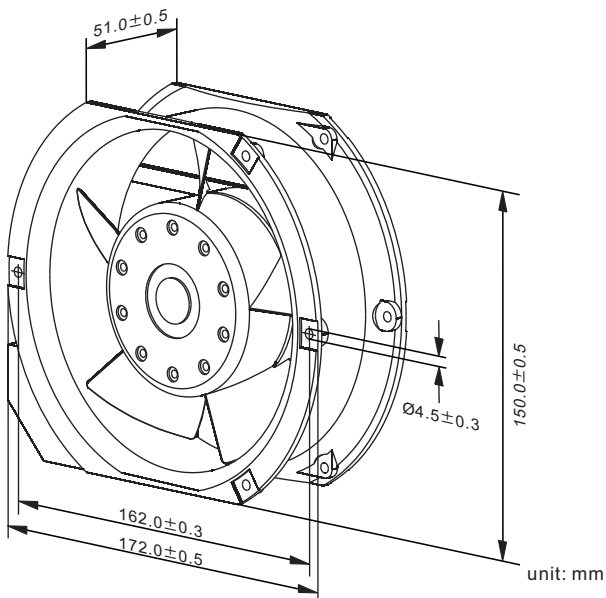


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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: 100M $\Omega$ , 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



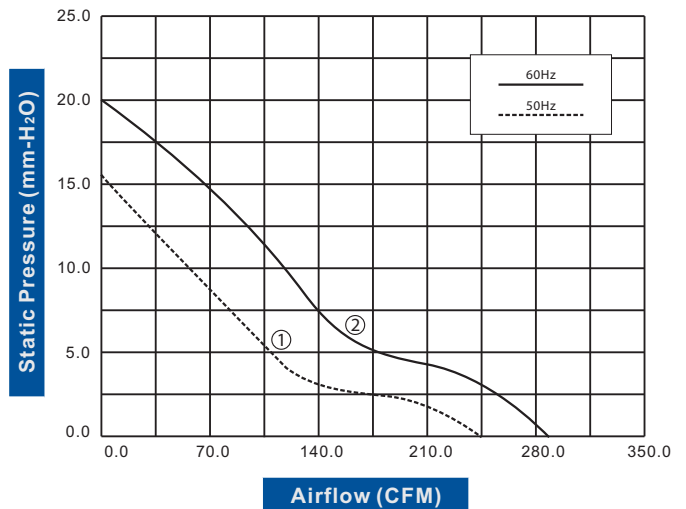
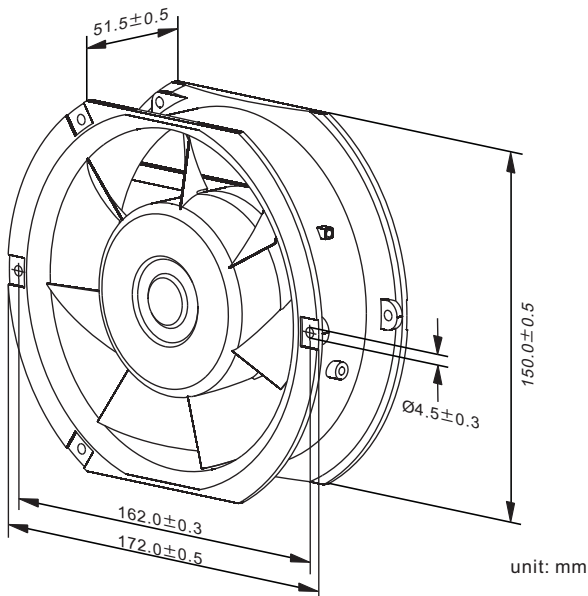
SS IP

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



AC Axial Fans



# AC AXIAL FAN 172x150x51mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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

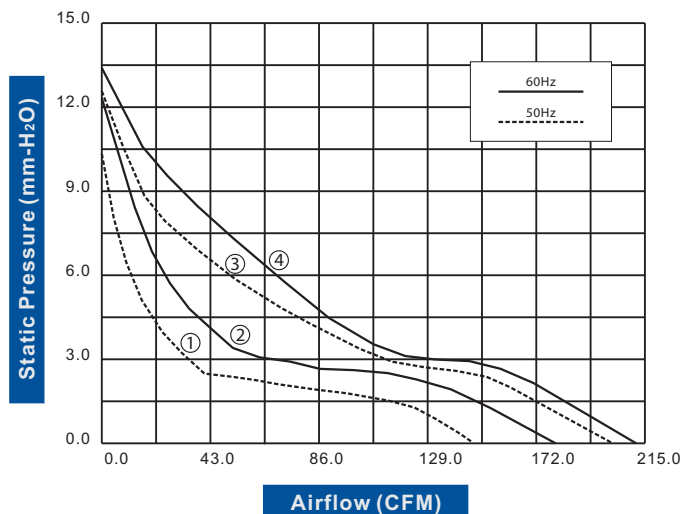
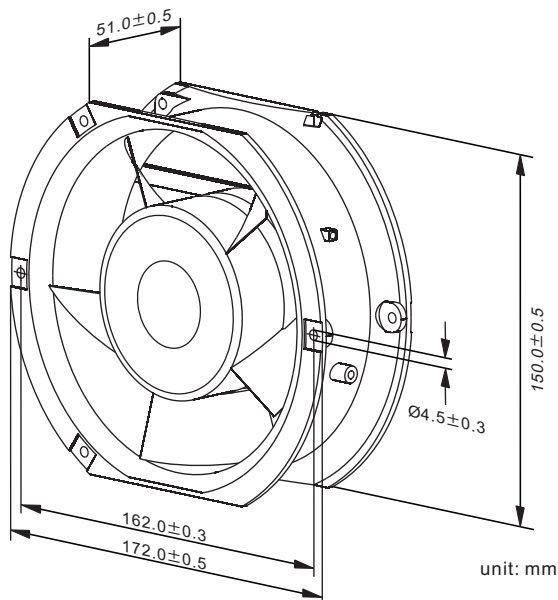


**SS** **IP**

Model Number	Voltage (VAC)	Frequency (Hz)	Air Flow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# AC AXIAL FAN 172x150x51mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-0  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 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



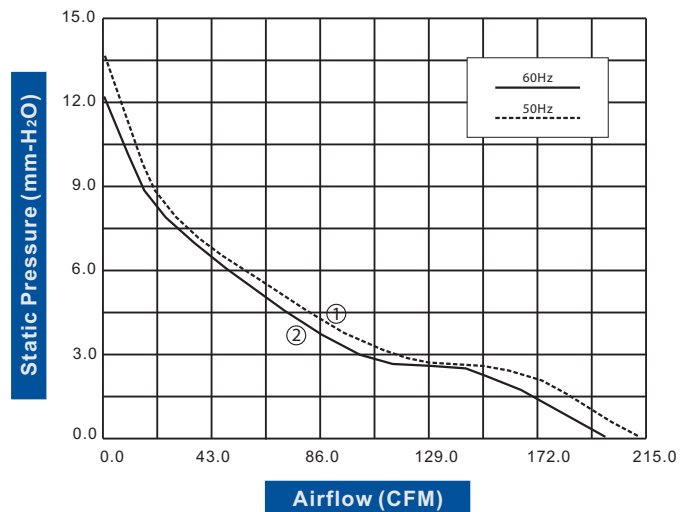
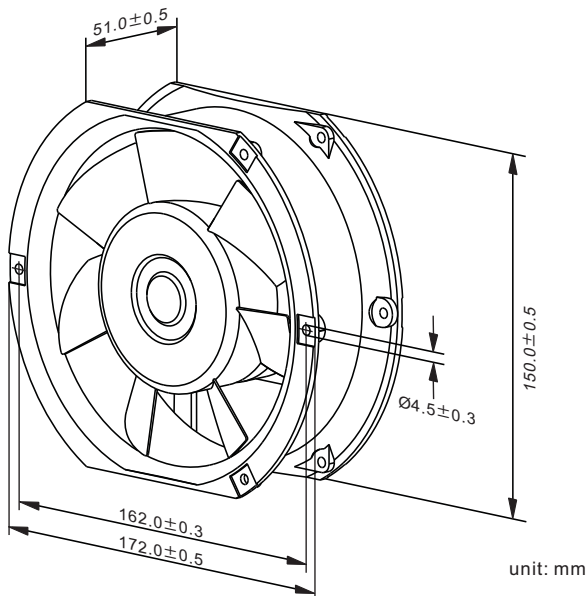
SS

IP

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# 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 minute  
 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

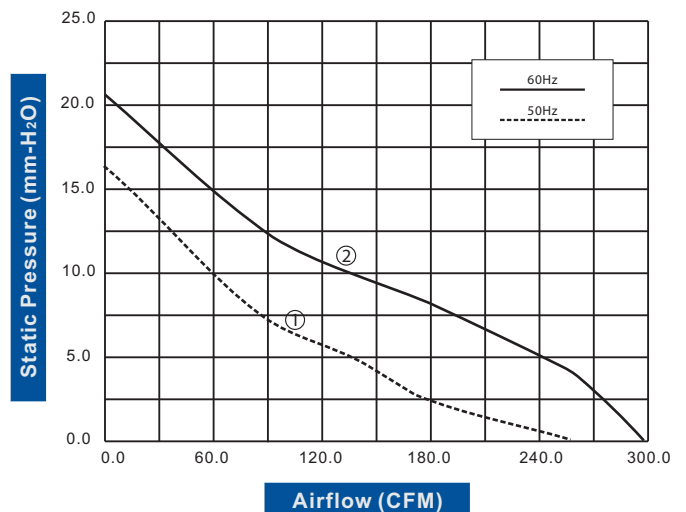
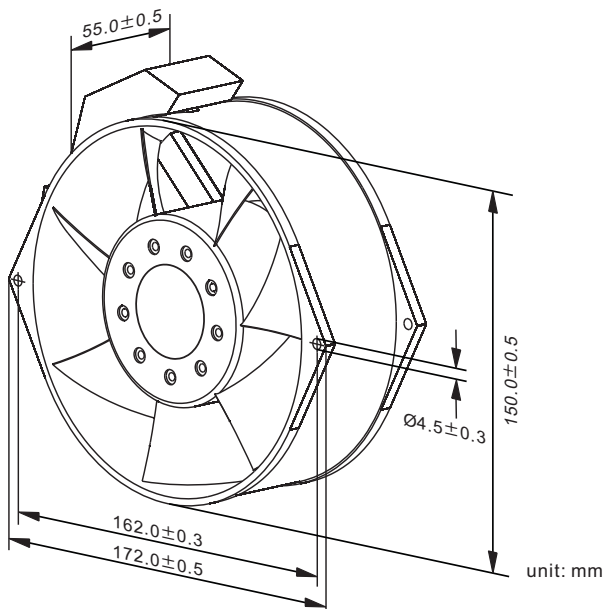


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



**ES** **IP**

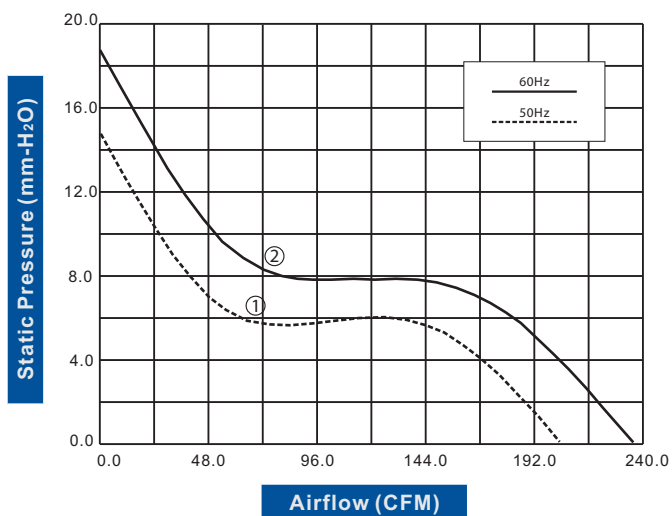
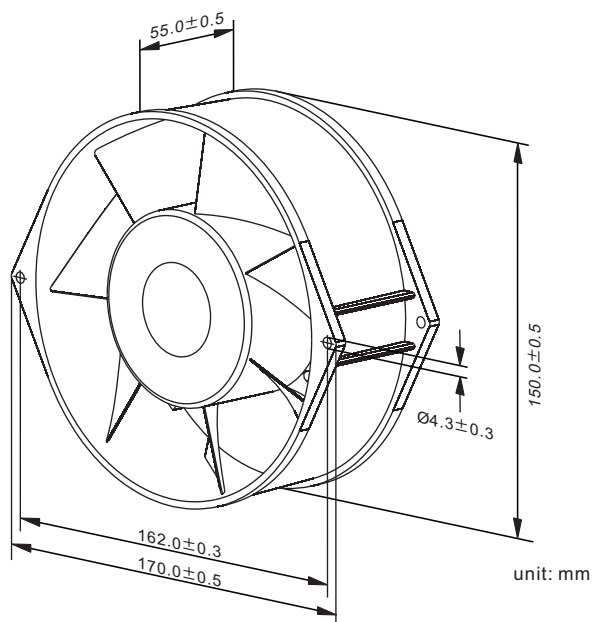
Housing: Die-Cast Aluminum, Painted Black  
 Blade: Injection Molded of Flame Retardant Polycarbonate, Black  
 Insulation Resistance: 100M $\Omega$ , 500VDC/min between bare wire and frame  
 Dielectric Strength: 1500VAC for one minute  
 Operation Temperature: -20°C~70°C(Humidity 35%-85%RH)  
 Storage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

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



AC Axial Fans





# AC AXIAL FAN 180x180x65mm



Housing: Die-Cast Aluminum, Painted Black  
 Blade: Injection Molded of Flame Retardant Polycarbonate, Black  
 Insulation Resistance: 100M $\Omega$ , 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**

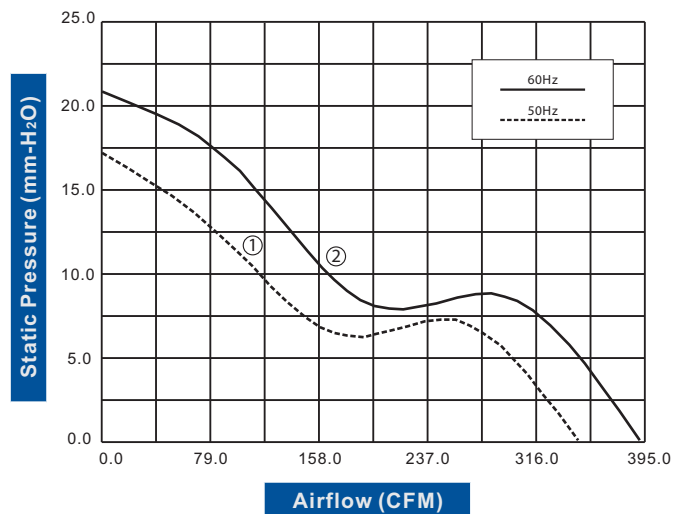
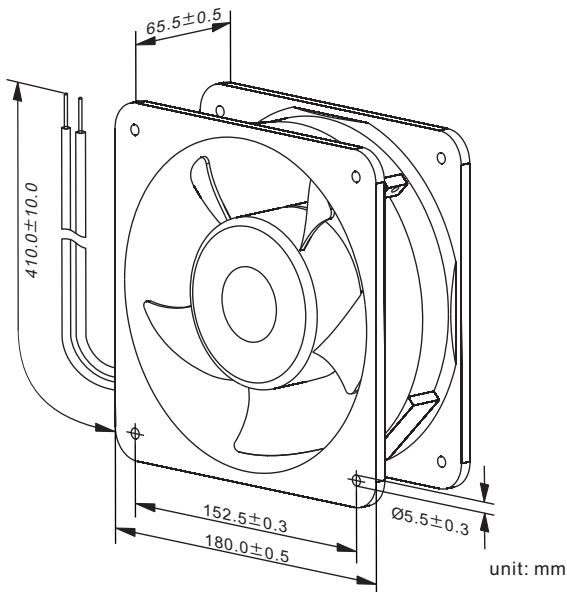
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1865B11T7C-51	115	50/60	342.0/365.0	17.0/20.6	58.0/61.0	2,800/3,150	490/660	56/74	B	①/②
FA1865B22T7C-51	230	50/60	352.0/394.0	17.0/20.6	58.0/61.0	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



AC Axial Fans



# 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 minute  
 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

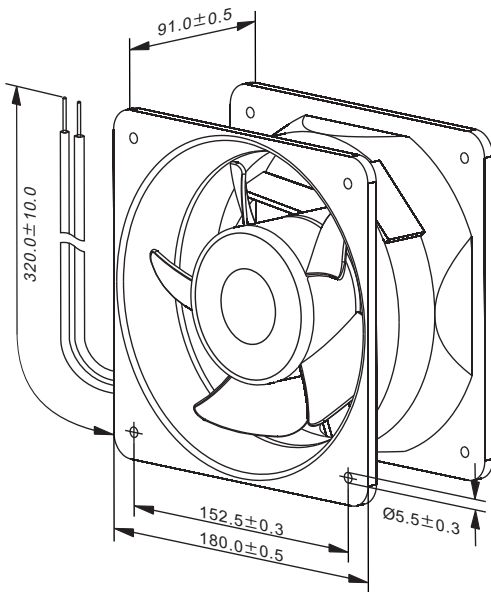


ES IP

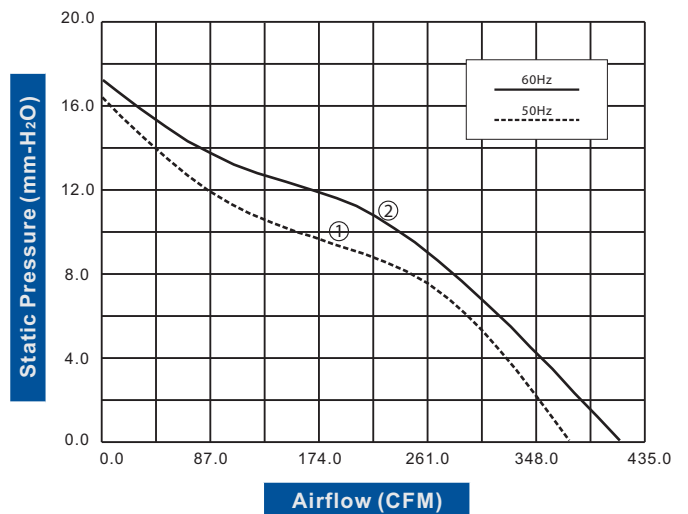
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA1890B11T7C-51	115	50/60	376.0/409.0	16.3/17.1	58.0/61.0	2,800/3,000	470/660	55/77	B	①/②
FA1890B22T7C-51	230	50/60	378.0/434.0	16.3/17.1	58.0/62.0	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 minute  
 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

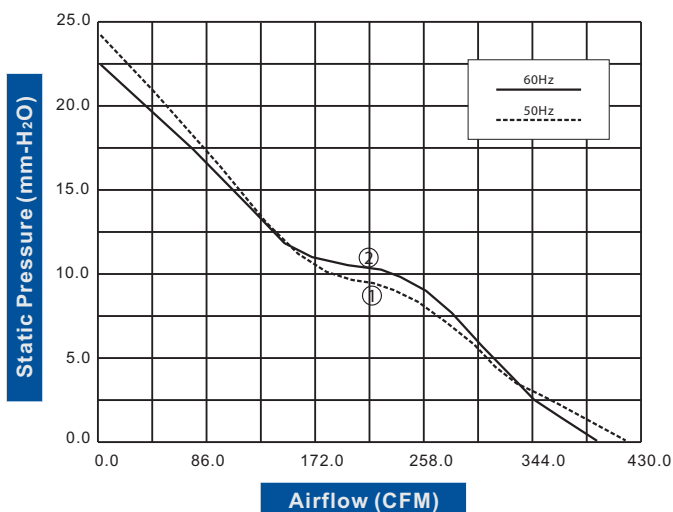
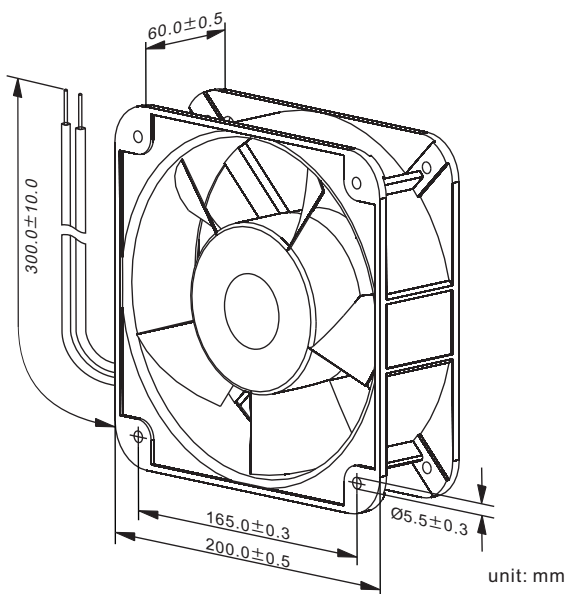
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA2060B11W7-96	115	50/60	426.3/406.0	23.7/22.2	64.0/69.0	2,500/2,300	760/860	65/68	B,S	①/②
FA2060B22W7-96	230	50/60	426.3/406.0	23.7/22.2	64.0/69.0	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



AC Axial Fans



# AC AXIAL FAN Ø 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 minute  
 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**

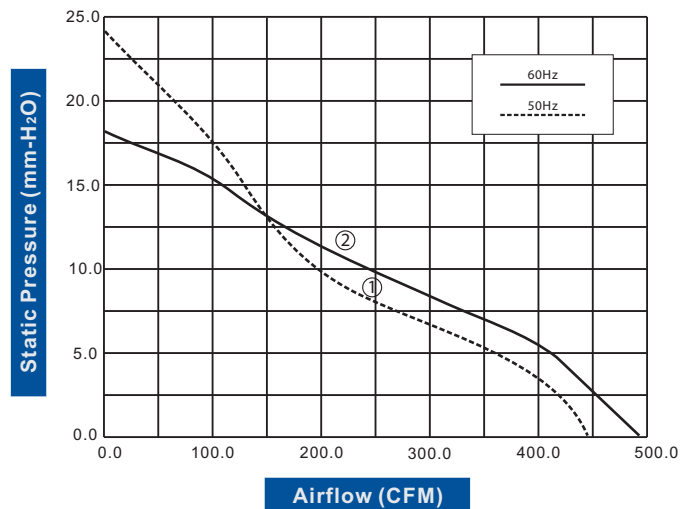
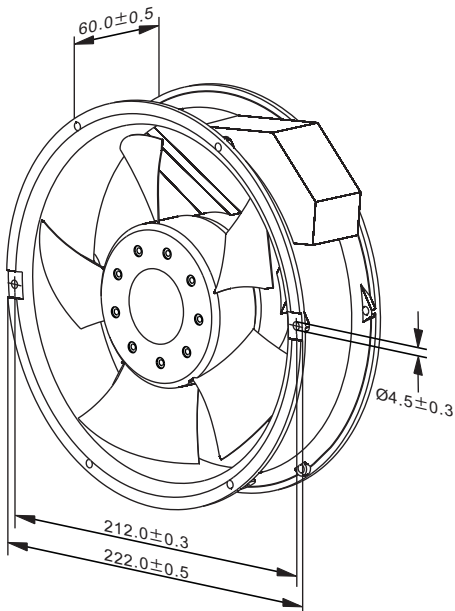


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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

## Ø 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 minute  
 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**

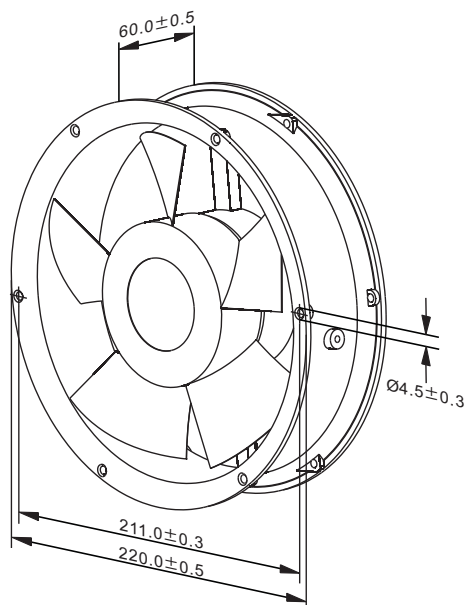


**SS** **IP**

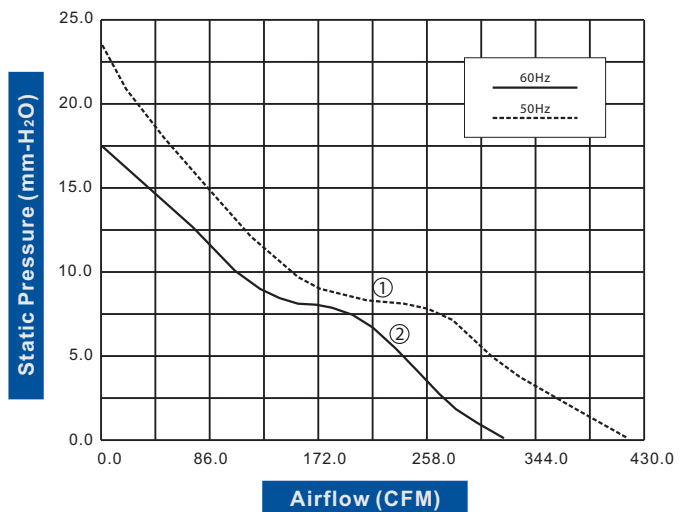
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA2260B11T7-96	115	50/60	426.3/315.7	23.7/17.5	64.0/54.2	2,500/1,850	720/850	56/63	B,S	①/②
FA2260B22T7-96	230	50/60	426.3/315.7	23.7/17.5	64.0/54.2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

Specification are subject to change without notice



unit: mm



# AC AXIAL FAN

## Ø 254x89mm



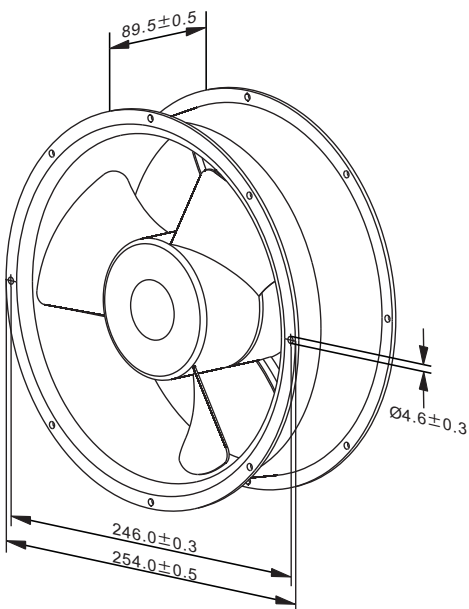
**ES** **IP**

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

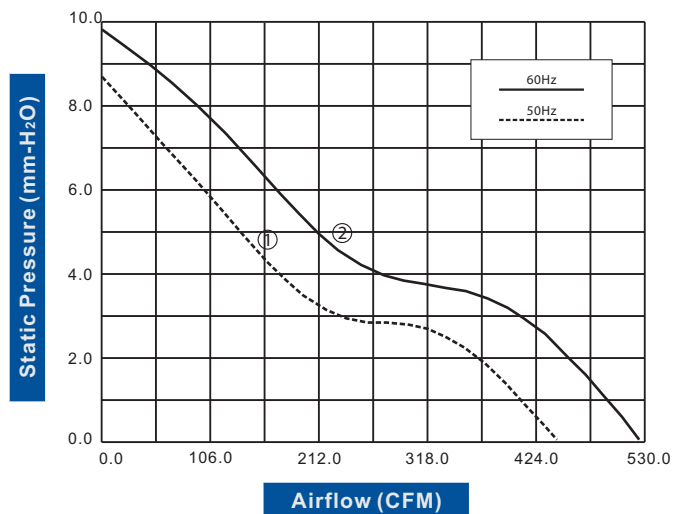
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA2589B11T7C-51	115	50/60	443.0/525.0	8.6/9.8	49.0/53.0	1,400/1,700	350/360	38/40	B	①/②
FA2589B22T7C-51	230	50/60	445.0/529.0	8.6/9.8	49.0/53.0	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

## Ø 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 minute  
 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



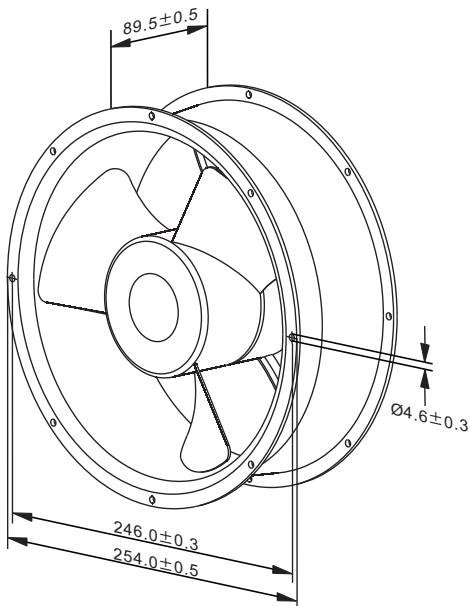
**ES** **IP**

● **High Airflow**

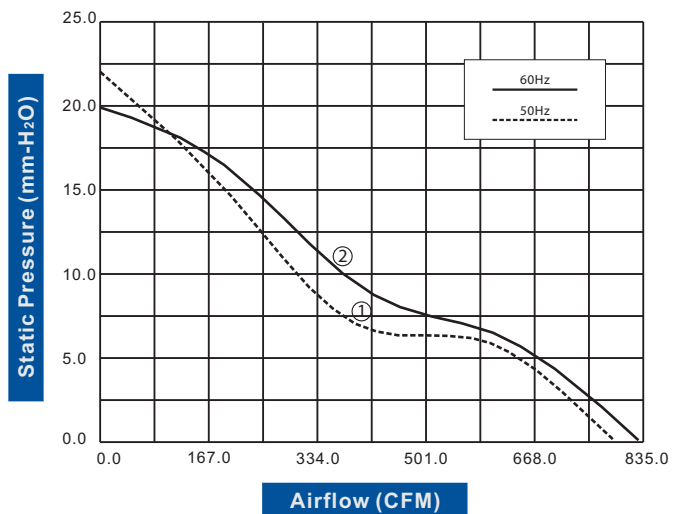
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FA2589B11T7C-52	115	50/60	780.0/834.0	21.8/19.8	68.0/70.0	2,550/2,700	950/1150	97/129	B	①/②
FA2589B22T7C-52	230	50/60	785.0/835.0	21.8/19.8	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 Ø 254x89mm



**ES IP**

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 minute  
 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

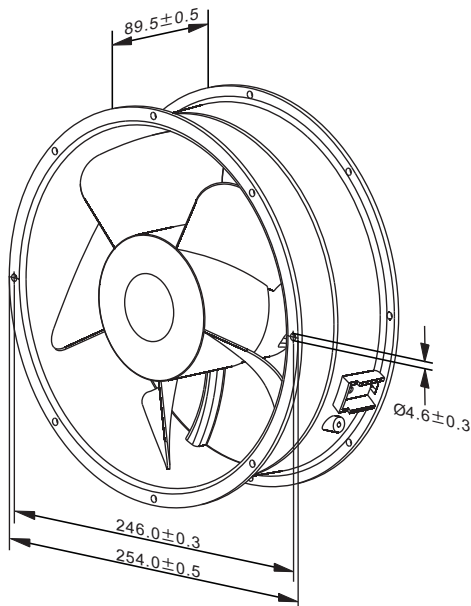
● **High Airflow**

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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

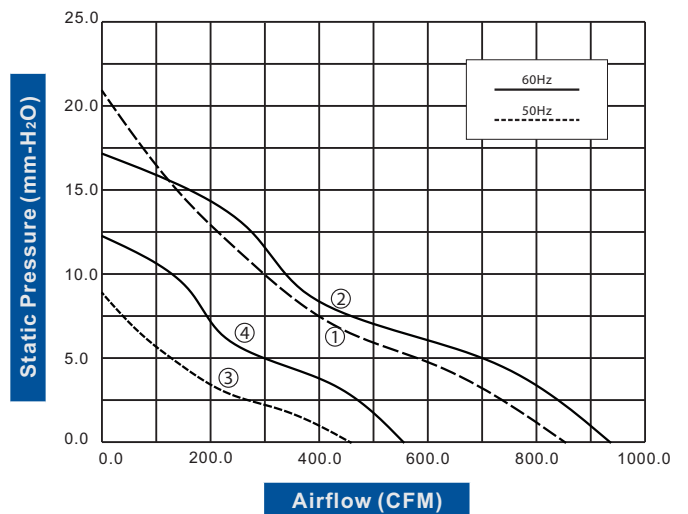
Specifications are subject to change without notice



AC Axial Fans



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 minute  
 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

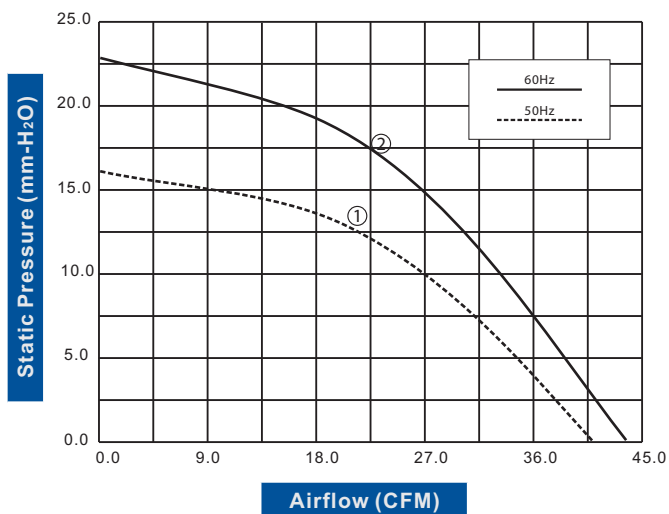
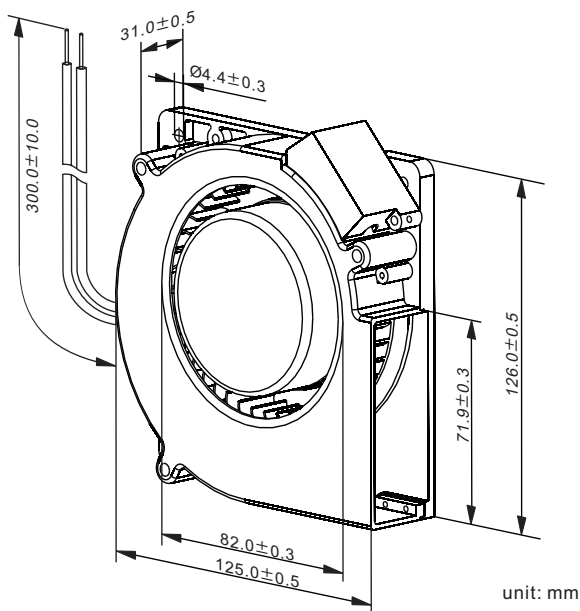


SS

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# 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 minute

**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



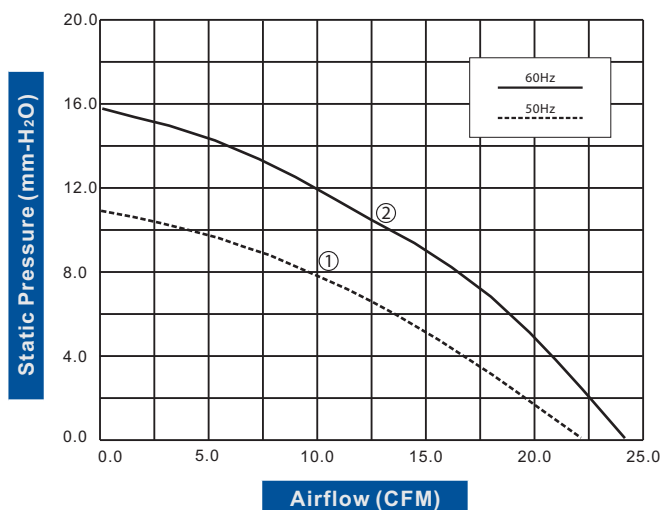
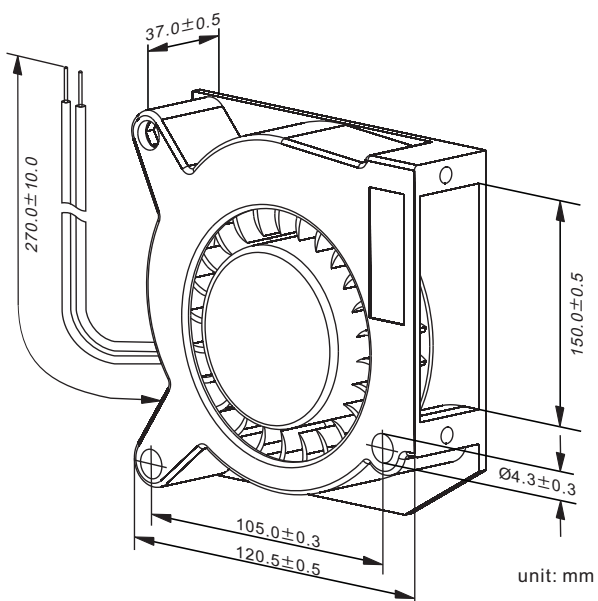
ES

IP

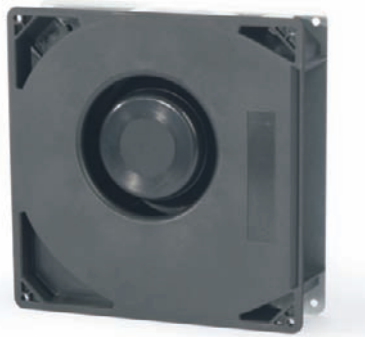
Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	Noise (dBA)	Speed (RPM)	Current (mA)	Power (W)	Available Bearing	Curves
FBA1237B11W5-51	115	50/60	22.0/23.0	10.7/15.7	53.0/54.0	2,500/2,500	270/240	21/19	B,S	①/②
FBA1237B22W5-51	230	50/60	22.0/23.0	10.7/15.7	53.0/54.0	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 minute

**Operation Temperature:** -20°C~70°C(Humidity 35%-85%RH)

**Storage Temperature:** -40°C~85°C(Humidity 35%-85%RH)

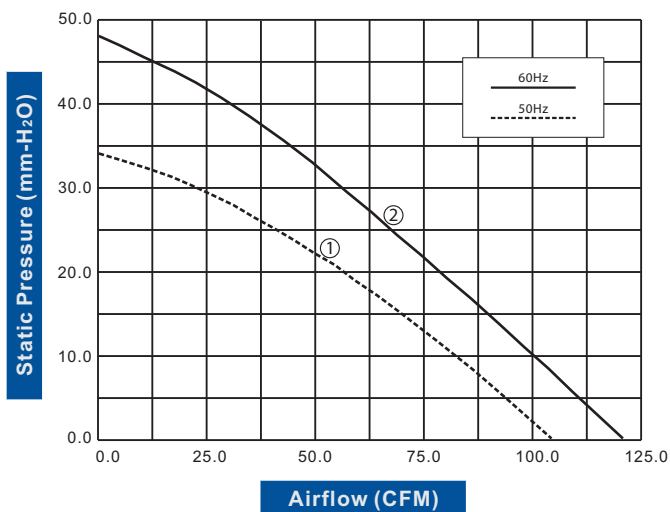
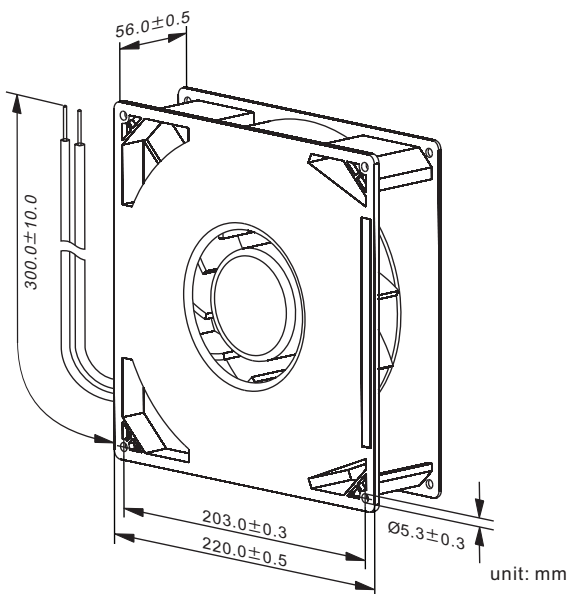
**Motor Protection:** Thermal Protected

**Weight:** 1750 g      **Packing:** 8PCS/CTN

**ES** **IP**

Model Number	Voltage (VAC)	Frequency (Hz)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



**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°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 155 g      Packing: 60PCS/CTN

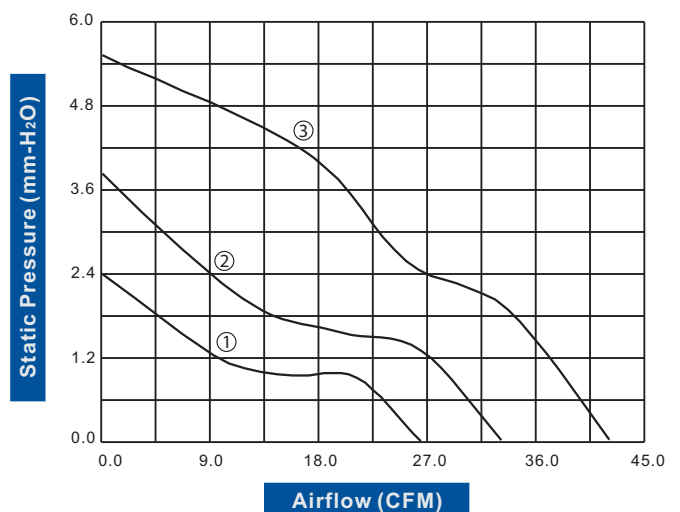
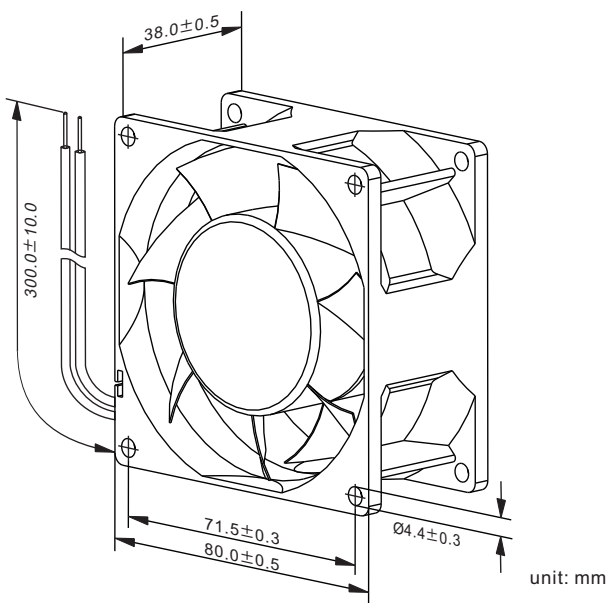


**SS** **IP**

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

Model Number	Voltage (VAC)	Frequency (Hz)	Oper. Volt. (VAC)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



# 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°C~70°C(Humidity 35%-85%RH)  
 Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)  
 Lead Wire: UL Type #26 AWG  
 Weight: 270 g      Packing: 40PCS/CTN



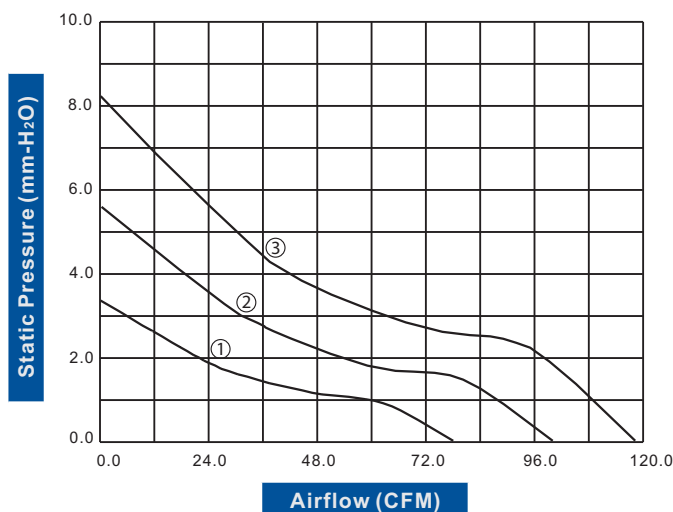
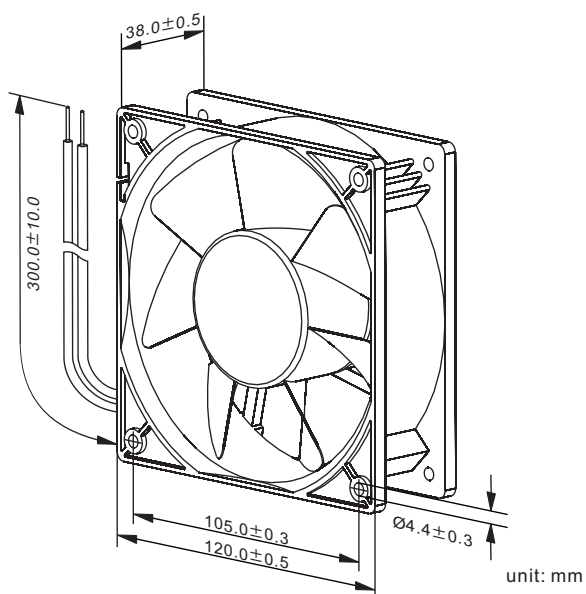
**SS IP**

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

Model Number	Voltage (VAC)	Frequency (Hz)	Oper. Volt. (VAC)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



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



**SS IP**

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

Housing: Die-Cast Aluminum, Painted Black  
 Blade: Thermoplastic PBT, UL 94V-2

Insulation Resistance: 10M $\Omega$ , 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)

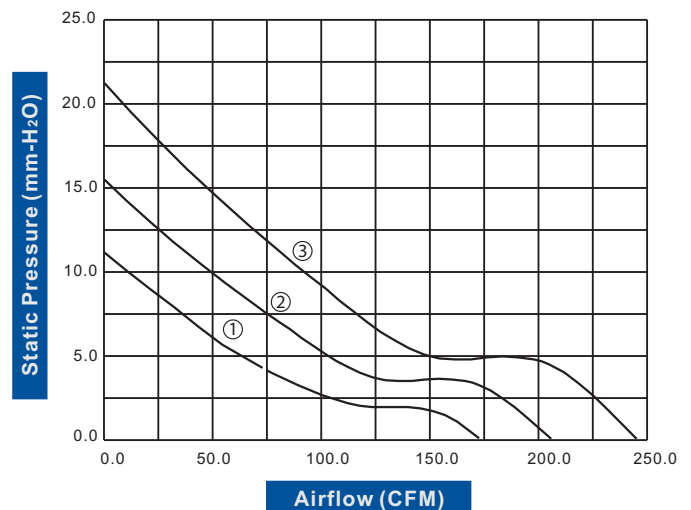
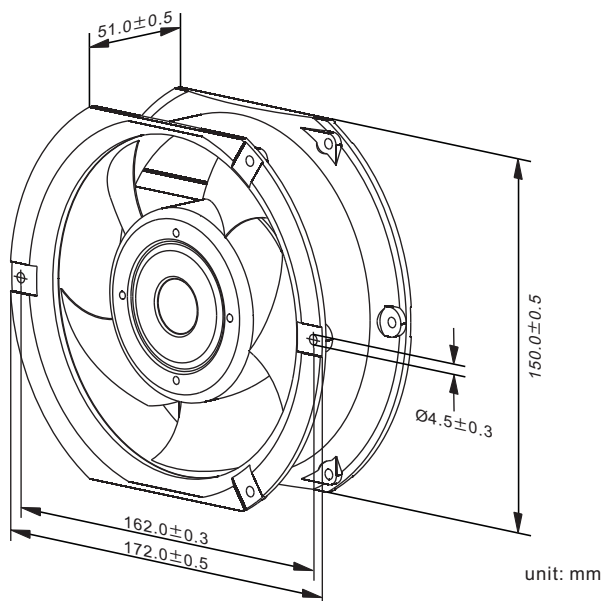
Storage Temperature: -40°C~85°C(Humidity 35%-85%RH)

Lead Wire: UL Type #26 AWG

Weight: 646 g      Packing: 16PCS/CTN

Model Number	Voltage (VAC)	Frequency (Hz)	Oper. Volt. (VAC)	AirFlow (CFM)	Stat.Pres. (mm-H <sub>2</sub> O)	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



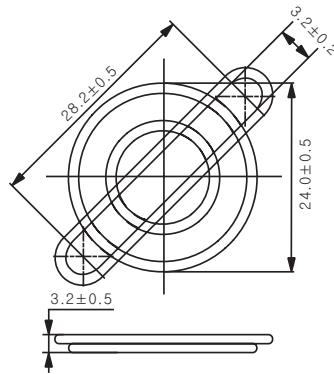
EC Axial Fans



## 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

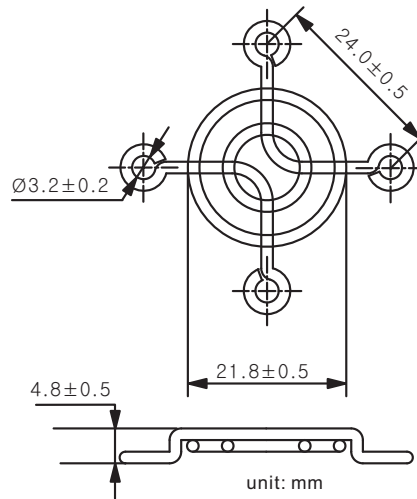
#### Fits for Fan Sizes :

25x25x10mm; 25x25x15mm

#### Notes :

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

### FGW-030A-1



unit: mm

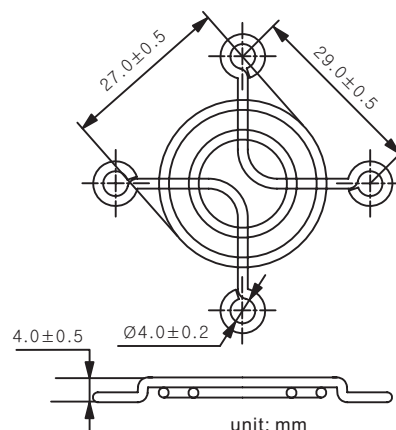
#### Fits for Fan Sizes :

30x30x06mm; 30x30x10mm

#### Notes :

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

### FGW-035A-1



unit: mm

#### Fits for Fan Size :

35x35x10mm

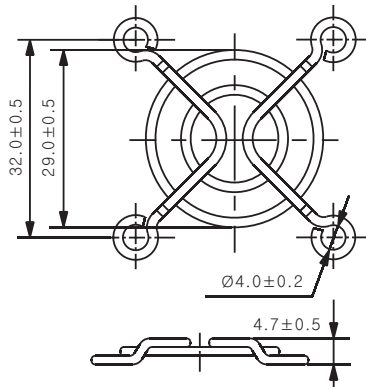
#### Notes :

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  - (1) Rings are  $\varnothing 1.6\pm 0.1$ mm.
  - (2) Ribs are  $\varnothing 1.6\pm 0.1$ mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\varnothing 6.35$ mm 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

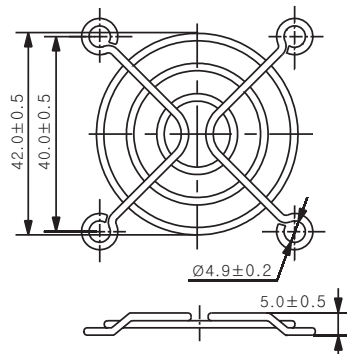
#### Fits for Fan Sizes :

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

#### Notes :

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

### FGW-050A-1



unit: mm

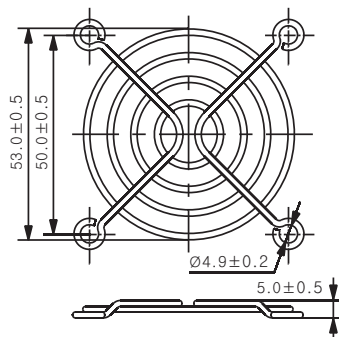
#### Fits for Fan Sizes :

50x50x10mm ; 50x50x15mm  
50x50x20mm ; 50x50x25mm

#### Notes :

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

### FGW-060A-1



unit: mm

#### Fits for Fan Sizes :

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

#### Notes :

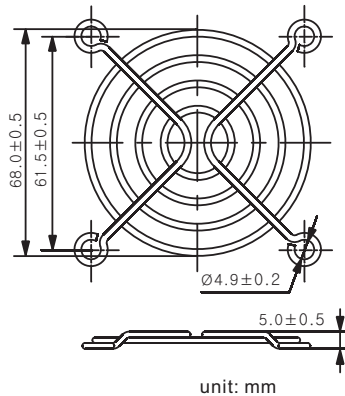
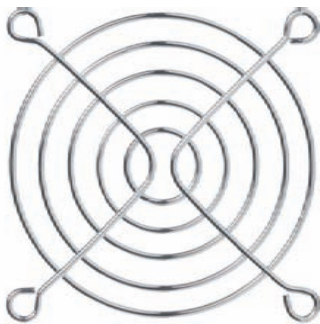
- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
- (1) Rings are  $\varnothing 1.6\pm 0.1$ mm.
- (2) Ribs are  $\varnothing 1.6\pm 0.1$ mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\varnothing 6.35$ mm plug gauge test.



## 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



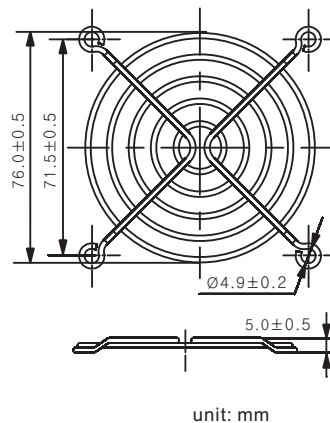
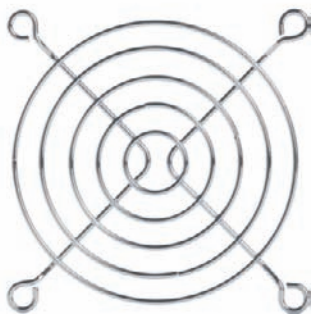
#### Fits for Fan Sizes :

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

#### Notes :

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

### FGW-080A-1



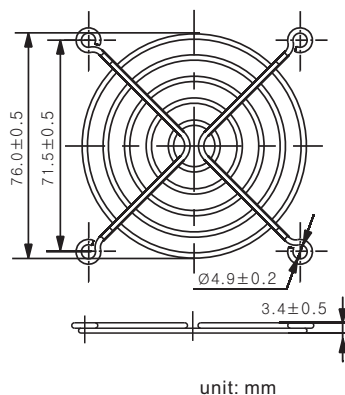
#### Fits for Fan Sizes :

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

#### Notes :

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

### FGW-080B-1



#### Fits for Fan Sizes :

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

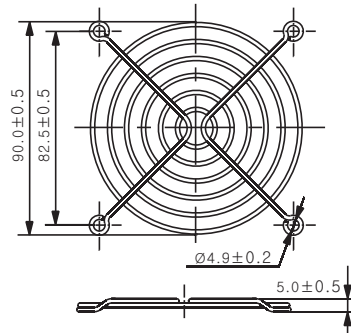
#### Notes :

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

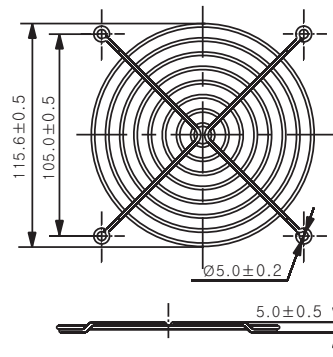
#### Fits for Fan Sizes :

92x92x25mm; 92x92x32mm  
92x92x38mm

#### Notes :

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

### FGW-120A-1



unit: mm

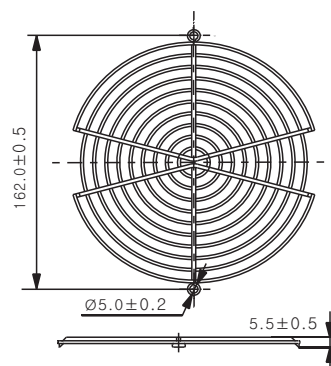
#### Fits for Fan Sizes :

120x120x25mm; 120x120x32mm  
120x120x38mm

#### Notes :

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

### FGW-162A-1



unit: mm

#### Fits for Fan Sizes :

172x150x38mm; 172x150x51mm  
 $\varnothing 172$ x51mm; 172x151x55mm

#### Notes :

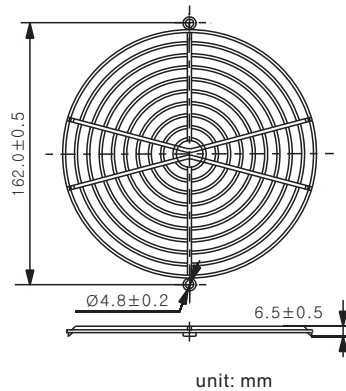
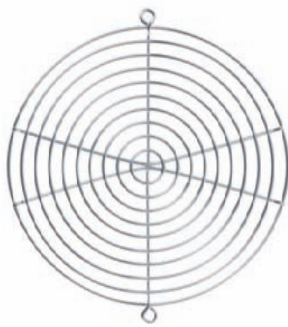
- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
- (1) Rings are  $\varnothing 1.8\pm 0.1$ mm.
- (2) Ribs are  $\varnothing 2.3\pm 0.1$ mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\varnothing 6.35$ mm plug gauge test.



## 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



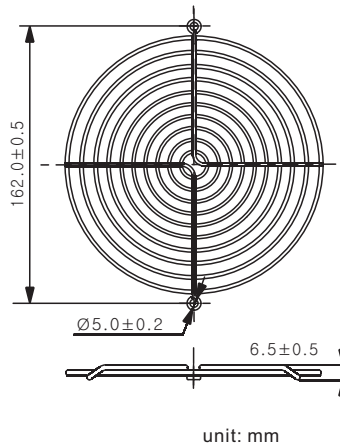
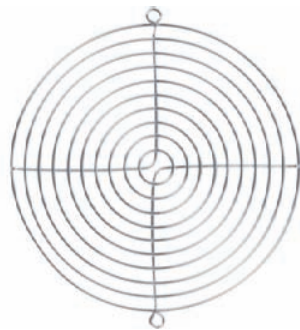
#### Fits for Fan Sizes :

172x150x38mm; 172x150x51mm  
Ø172x51mm; 172x151x55mm

#### Notes :

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  - (1) Rings are  $\text{Ø}1.8\pm0.1\text{mm}$ .
  - (2) Ribs are  $\text{Ø}2.3\pm0.1\text{mm}$ .
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\text{Ø}6.35\text{mm}$  plug gauge test.

### FGW-162B-1



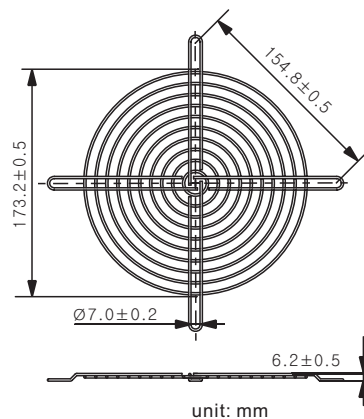
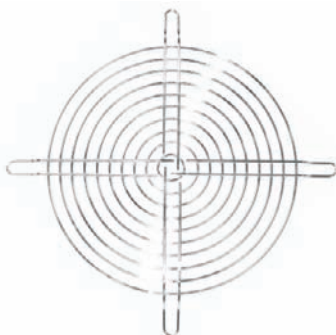
#### Fits for Fan Sizes :

172x150x38mm; 172x150x51mm  
Ø172x51mm; 172x151x55mm

#### Notes :

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  - (1) Rings are  $\text{Ø}1.8\pm0.1\text{mm}$ .
  - (2) Ribs are  $\text{Ø}1.8\pm0.1\text{mm}$ .
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\text{Ø}6.35\text{mm}$  plug gauge test.

### FGW-180A-1



#### Fits for Fan Sizes :

180x180x65mm; 180x180x90mm

#### Notes :

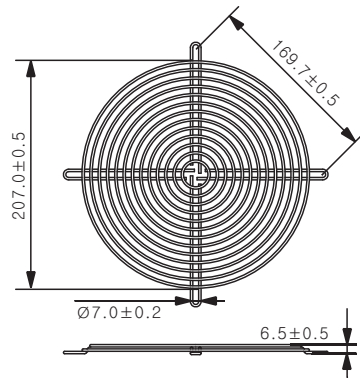
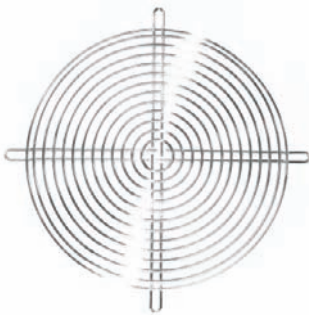
- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  - (1) Rings are  $\text{Ø}1.8\pm0.1\text{mm}$ .
  - (2) Ribs are  $\text{Ø}1.8\pm0.1\text{mm}$ .
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\text{Ø}6.35\text{mm}$  plug gauge test.



## 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

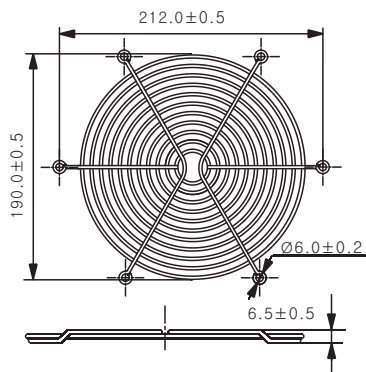
#### Fits for Fan Sizes :

200x200x60mm ; 225x225x80mm

#### Notes :

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  - (1) Rings are  $\varnothing 1.8\pm 0.1$ mm.
  - (2) Ribs are  $\varnothing 2.0\pm 0.1$ mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\varnothing 6.35$ mm plug gauge test.

### FGW-220A-1



unit: mm

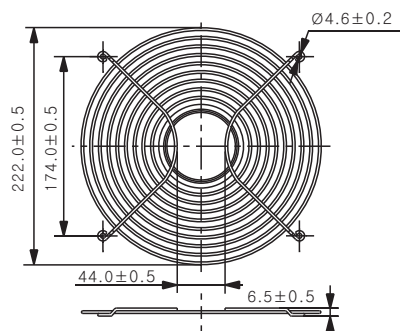
#### Fits for Fan Size :

$\varnothing 220$ x60mm ;  $\varnothing 222$ x60mm

#### Notes :

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

### FGW-250A-1



unit: mm

#### Fits for Fan Size :

$\varnothing 254$ x89mm

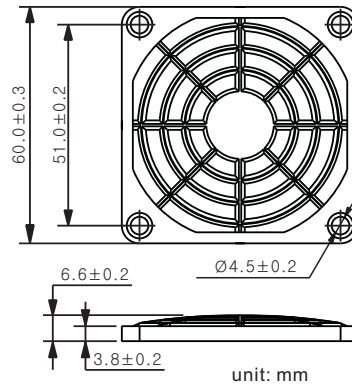
#### Notes :

- Materials: Bright basic wire.
- Finish: Bright nickel chrome plating.
  - (1) Rings are  $\varnothing 2.3\pm 0.1$ mm.
  - (2) Ribs are  $\varnothing 2.3\pm 0.1$ mm.
- Weld joints to withstand 88 lbs pull force.
- Part meets  $\varnothing 6.35$ mm 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



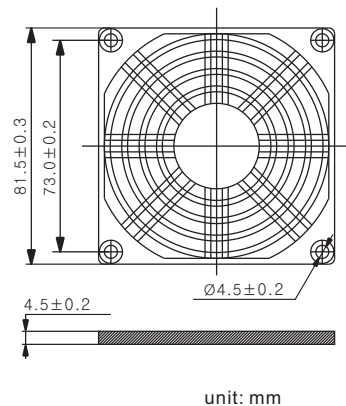
#### Fits for Fan Sizes :

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



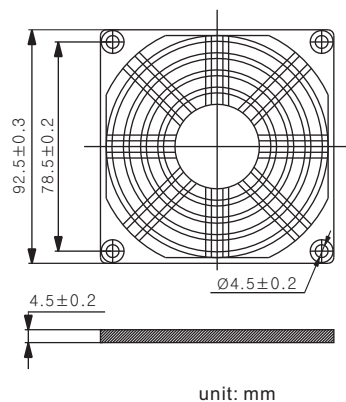
#### Fits for Fan Sizes :

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



#### Fits for Fan Sizes :

92x92x25mm ; 92x92x32mm  
92x92x38mm

#### Notes :

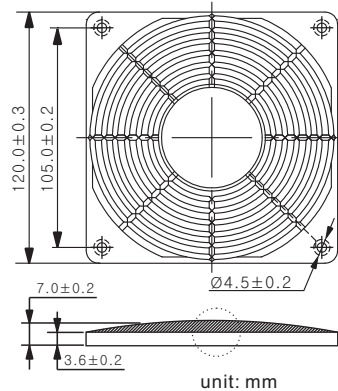
- Materials: PP RoHS, UL rated 94V-0.
- Ring spacing complies with safety agency regulations.
- Flat surface design with mounting holes.



## 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



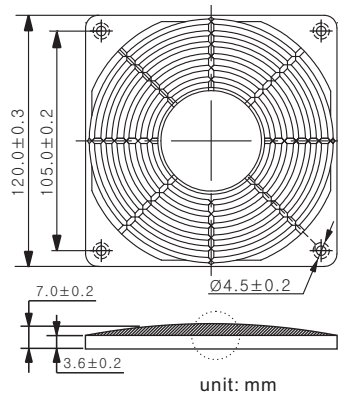
#### Fits for Fan Sizes :

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



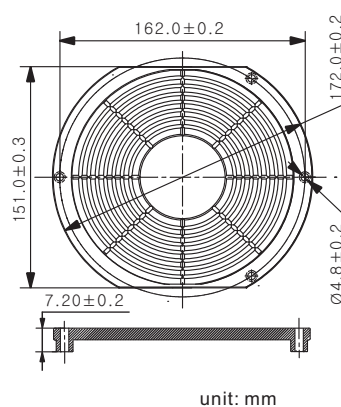
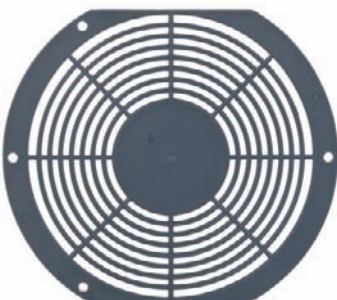
#### Fits for Fan Sizes :

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



#### Fits for Fan Sizes :

172x150x38mm; 172x150x51mm

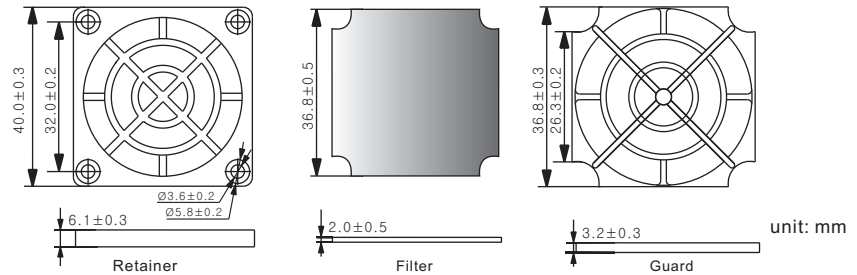
#### Notes :

- 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



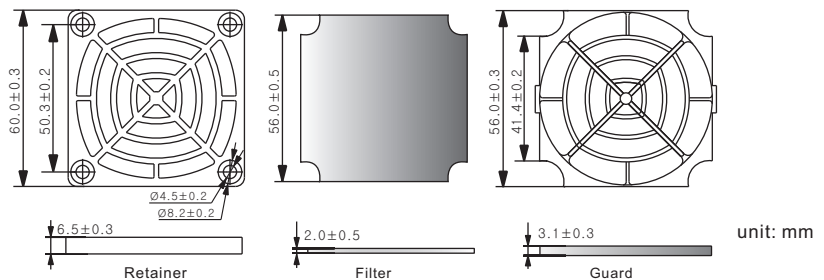
#### Fits for Fan Sizes :

40x40x7mm ; 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



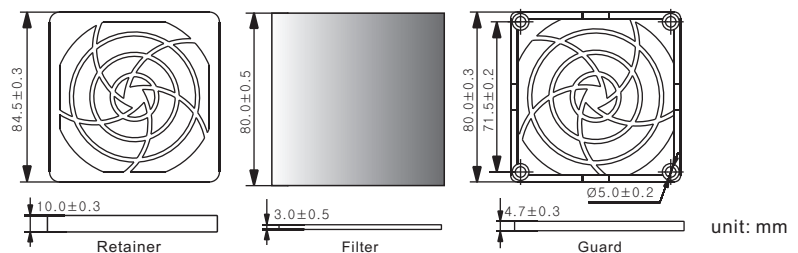
#### Fits for Fan Sizes :

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

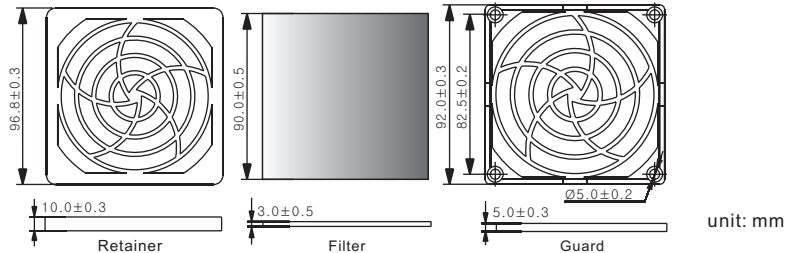
#### Notes :

- 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



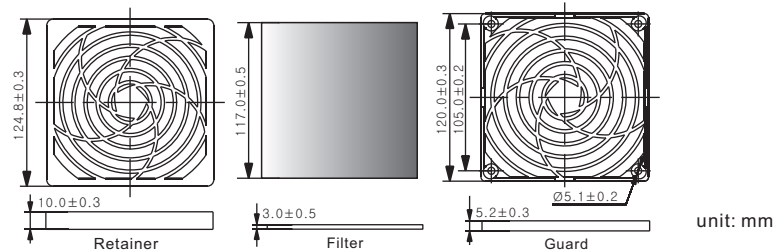
#### Fits for Fan Sizes :

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



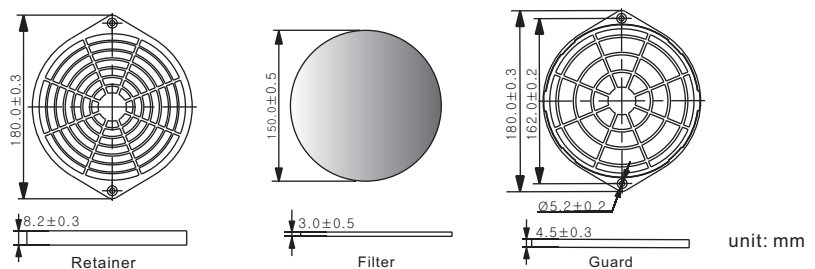
#### Fits for Fan Sizes :

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



#### 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).

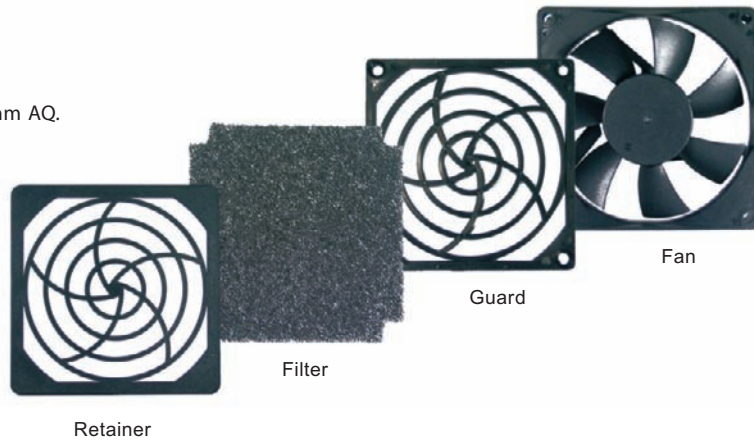
## General Application :

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 :

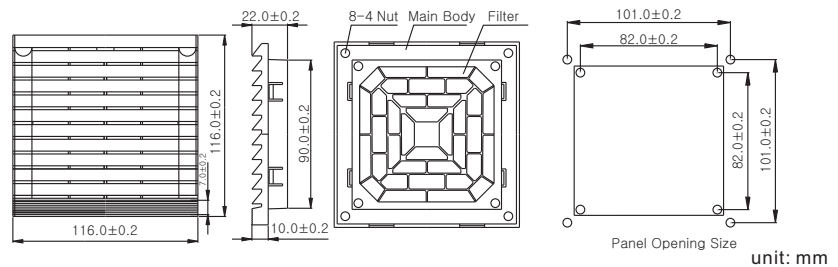
- Pressing damages of filter:  
Initial period 6.9mm AQ, final stage 24mm AQ.
- Maximum wind speed: 2.0M<sup>3</sup> /sec.
- Effective wind speed: 50M<sup>3</sup> /min.
- Use Scope: Indoor-10°C to 55°C.
- Dust removal rate: up to 90%.



## 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



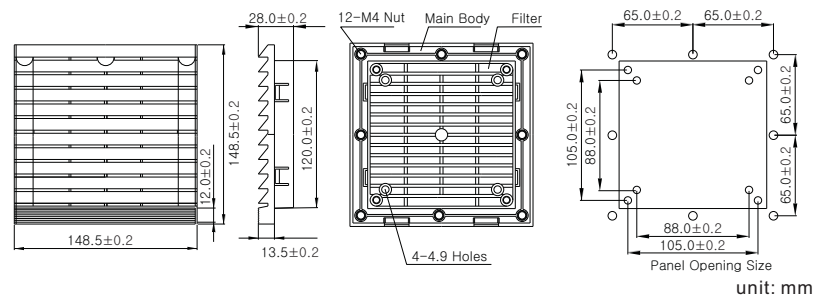
#### Fits for Fan Sizes :

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



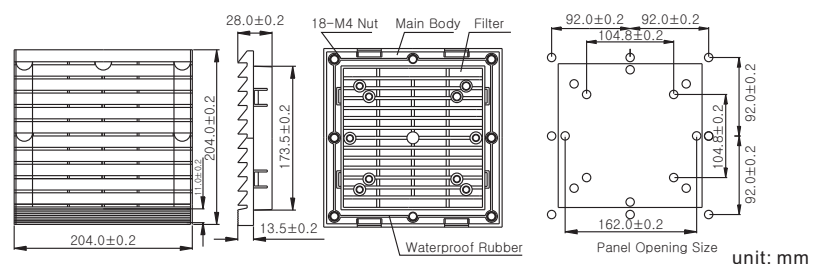
#### Fits for Fan Sizes :

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



#### Fits for Fan Sizes :

120x120x25mm  
120x120x38mm  
172x150x38mm  
172x150x51mm

#### Notes :

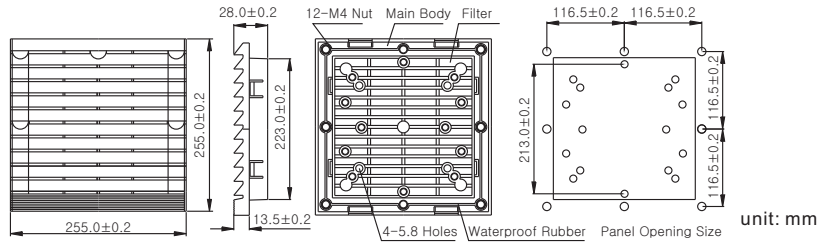
- Main Body Material: ABS FR-800(b) UL 94V-0
- Filter Material: PP51 + UL 94V-0, Up to 86% Ratio of Dust-cleaning.



## 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



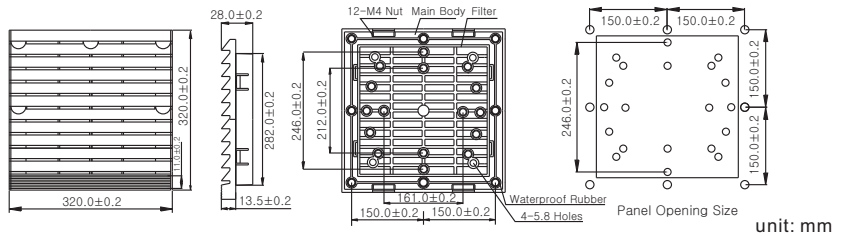
#### Fits for Fan Sizes :

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

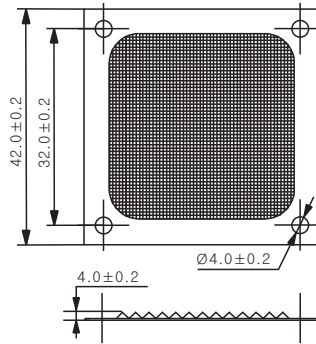
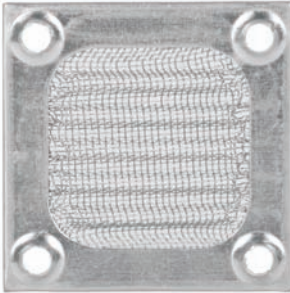
#### Notes :

- 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

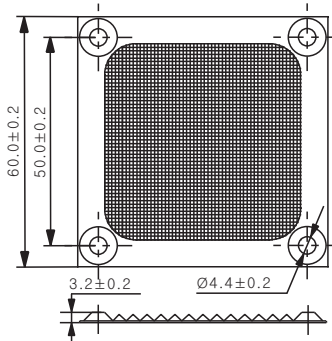
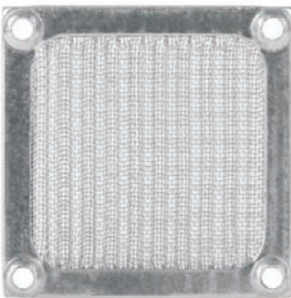
#### Fits for Fan Sizes :

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

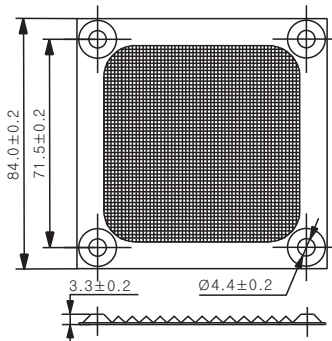
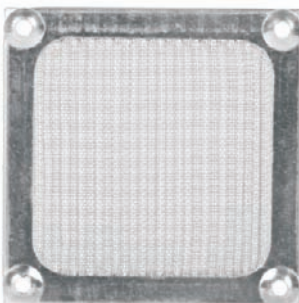
#### Fits for Fan Sizes :

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 :

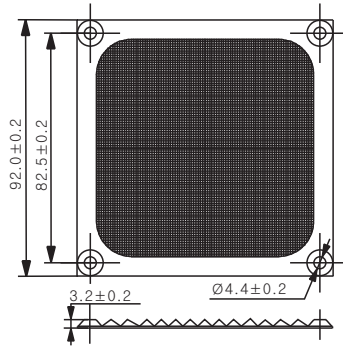
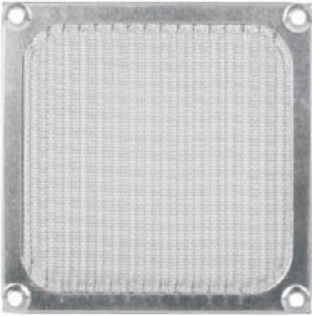
- Frame: Aluminum with 1.6mm thickness.
- Mesh: 30\*30 mesh convoluted approx 1/8" deep with approx. 3/16" pitch.



## 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

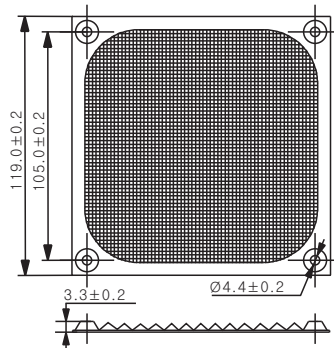
#### Fits for Fan Sizes :

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

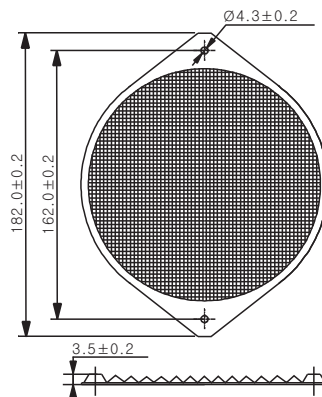
#### Fits for Fan Sizes :

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

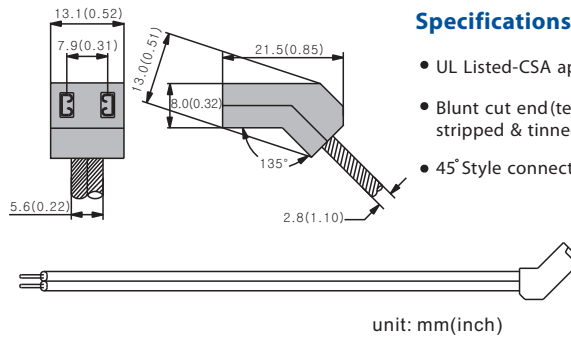
#### Notes :

- 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

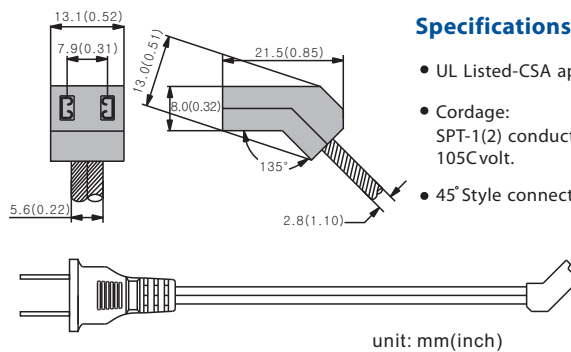


#### Specifications :

- 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

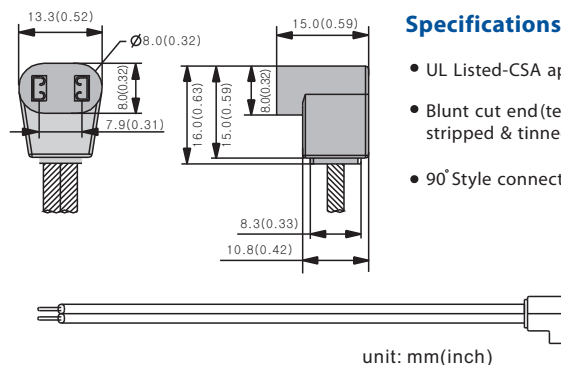


#### Specifications :

- 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



#### Specifications :

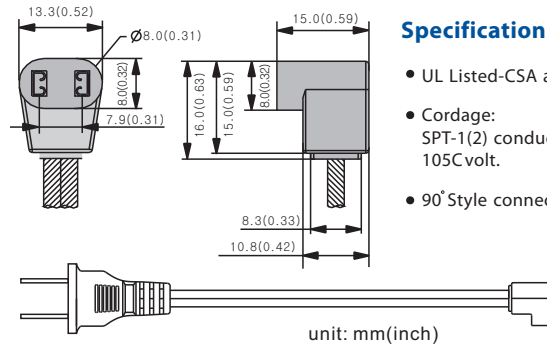
- UL Listed-CSA approved.
- Blunt cut end (terminated or stripped & tinned available).
- 90° Style connector (L Type).

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 :

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### FPC-LxxP Series

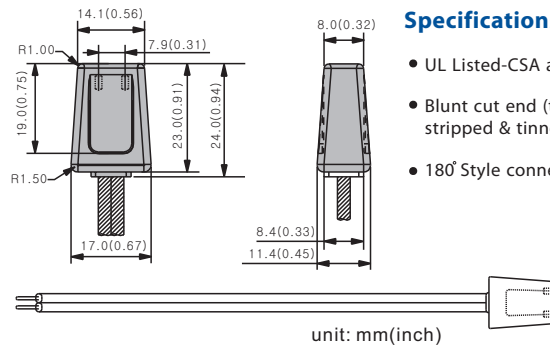


#### Specifications :

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

Part Number	CordLength	
	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

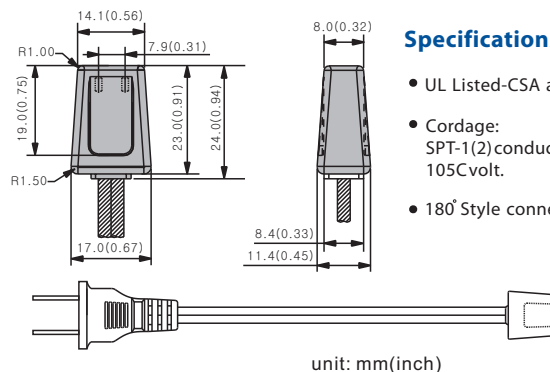


#### Specifications :

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

Part Number	CordLength	
	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



#### Specifications :

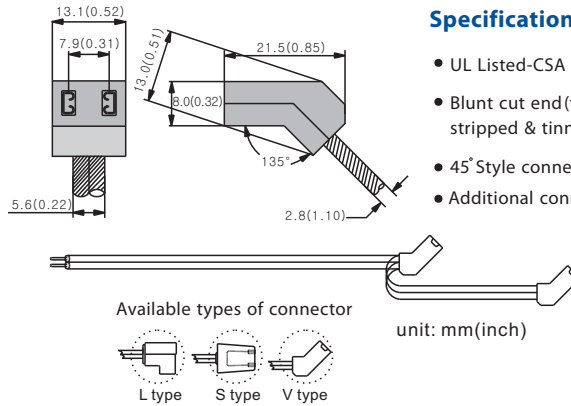
- UL Listed-CSA approved.
- Cordage:  
SPT-1(2) conductor black  
105C volt.
- 180° Style connector (S Type).

Part Number	CordLength	
	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 :

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- Custom designs and lengths are available upon request.

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

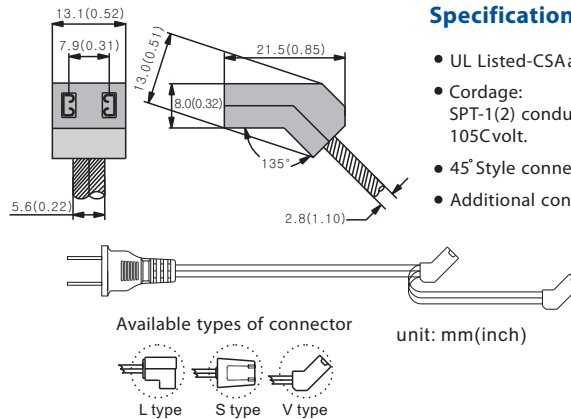


#### Specifications:

- UL Listed-CSA approved.
- Blunt cut end (terminated or stripped & tinned available).
- 45° Style connector (V Type).
- Additional connectors: 2 to 12.

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

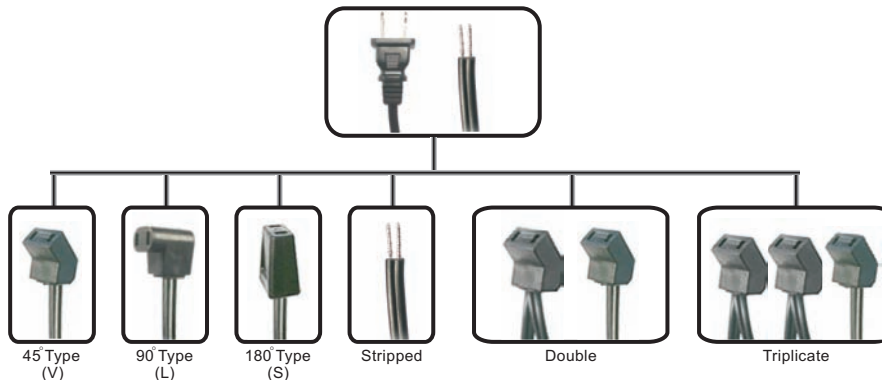


#### Specifications:

- UL Listed-CSA approved.
- Cordage: SPT-1(2) conductor black 105Cvolt.
- 45° Style connector (V Type).
- Additional connectors: 2 to 12.

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

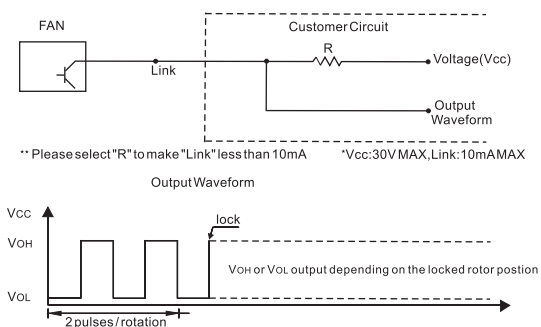


## IC Functional Waveform

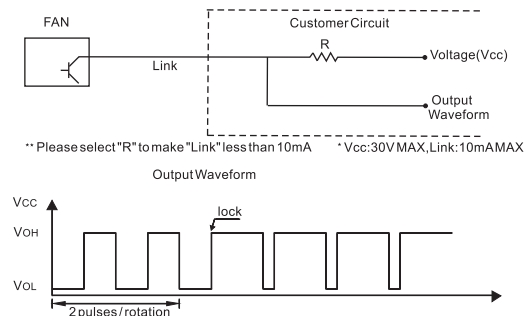
- a Speed Sensor: two pulses per revolution.
- b Speed Sensor with Auto Restart.
- c Alarm High: low for pass, high for fail.
- d Temperature Controlled Speed.
- e PWM(Pulse Width Modulation) Control Input.

Specifications are subject to change with customer design.

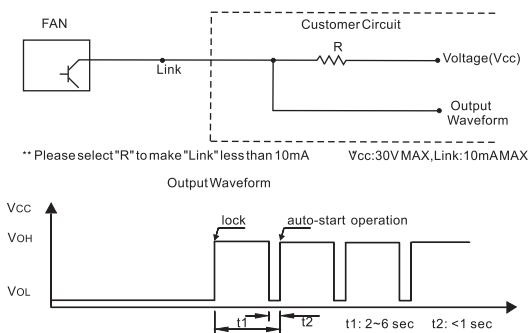
### a Speed Sensor or Tachometer (F/G)



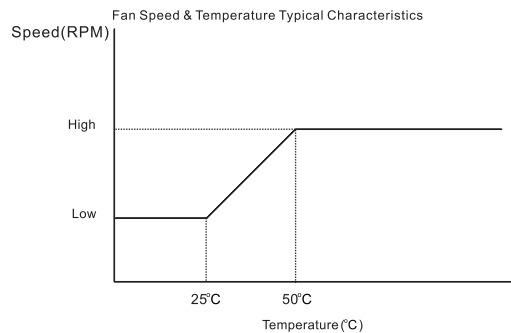
### b Speed Sensor w/ Auto Restart



### c Alarm High w/Auto Restart



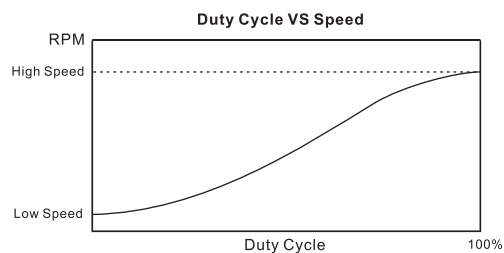
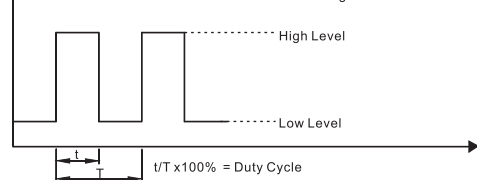
### d Temperature Controlled Speed



### e PWM(Pulse Width Modulation) Control Input

PWM Signal function design is decided by customer

PWM Frequency = 18 to 30KHz  
High Level = 5.0V(Standard) or Upon Request  
Low Level = 0.4V(Standard) or Upon Request  
PWM Range = 0% to 100%



## 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  $P_n$ ) is measured to obtain the airflow at the nozzle. Static pressure  $P_s$  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)

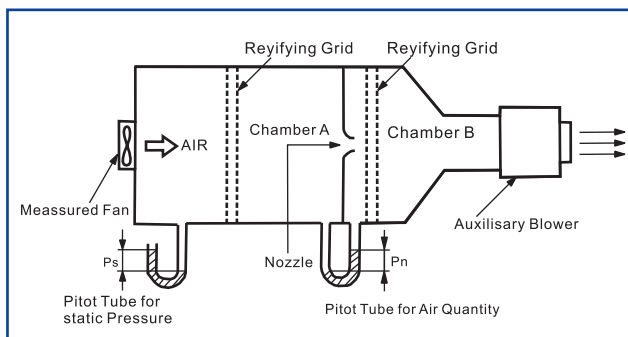
$$V = [2g P_n / r]$$

**where**

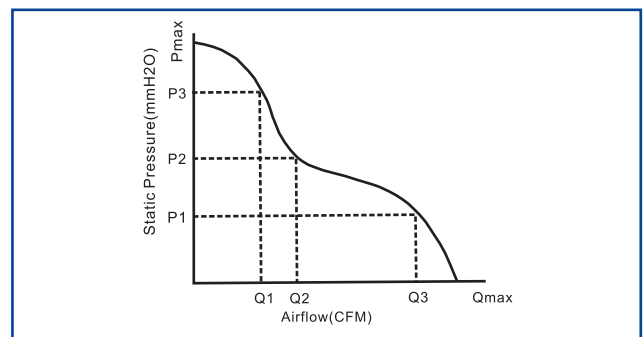
g: gravitational acceleration,  $9.8m/s^2$   
 $P_n$ : differential pressure (mm H<sub>2</sub>O)  
 $P_s$ : static pressure  
 r: specific gravity of air,  $1.2 kg/m^3$  at  $20^\circ C$ , 1atm

Maximum airflow: when opening the nozzle and absorbing the air using the auxiliary blower to make the static pressure ( $P_s$ ) equal to zero, the differential pressure between chamber A and B,  $P_n$  will be at its maximum value. Plug this  $P_n$  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,  $P_s$ , between the ambient air pressure and the pressure in the chamber can now be considered the maximum static pressure.



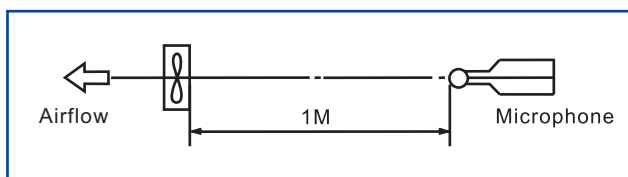
The Measuring Method-double Chamber



Fan Airflow vs. Static Pressure Characteristic Curve

### Acoustic Noise Level Measurement

Noise is measured in accordance with ISO7779 standards in an Anechoic Chamber with less than 18.6 dBA background 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

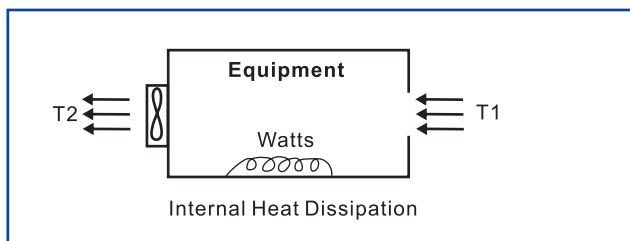
## How to Choose a Fan (1)

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:



$$Q = m C_p \Delta T$$

#### 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  
 $\Delta T$  = 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, m<sup>3</sup>/s  
 $r$  = the air density, kg/m<sup>3</sup>

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

$$G = Q / (rC_p \Delta T)$$

By utilizing this formula, you can get an estimate of the airflow required to obtain the desired air temperature in  $\Delta T$ . 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)

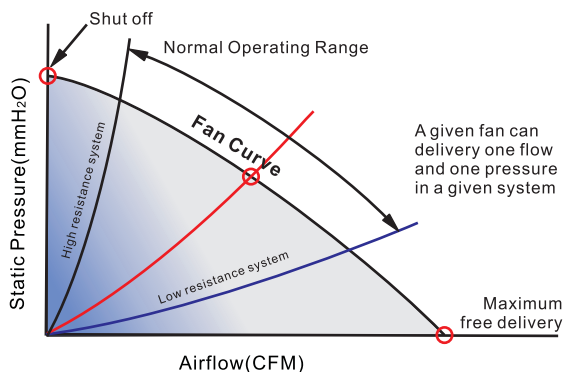
### 2) Computational Commercial Software:

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 (1)

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

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<sub>10</sub> Life (the minimum service life)*

$$T(\text{forecast}) = T(\text{actual}) \times FCC$$

#### Where:

T (forecast) = the forecasted L<sub>10</sub> life under working temperature T<sub>f</sub> usually 25 °C

T (actual) = the actual tested life under temperature T<sub>a</sub>

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

*MTTF (Mean Time To Failure)*

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

#### Where:

A.F. = Acceleration Factor is number of fan failed at T<sub>L</sub> test divided by number of fan failed at T<sub>H</sub>

273 = Absolute Temperature

e = Natural Log

AH = Activation Energy

K = Boltzmann's Constant =  $8.623 \times 10^{-5}$

T<sub>L</sub> = Tested Temperature Low = 50 °C

T<sub>H</sub> = Tested Temperature High = 80 °C

## 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 <sup>3</sup> /min (CMM)	1 CFM=1.699 m <sup>3</sup> /hr
1 m <sup>3</sup> /min=35.31 CFM	1 m <sup>3</sup> /min=60 m <sup>3</sup> /hr
1 m <sup>3</sup> /min=16.67 ℓ/sec	1 ℓ/sec=0.06 m <sup>3</sup> /min
1 m <sup>3</sup> /hr=0.589 CFM	1 m <sup>3</sup> /hr=0.0167 m <sup>3</sup> /min

CFM	m <sup>3</sup> /min(CMM)	m <sup>3</sup> /hr
1	0.0283	1.699
35.31	1	60
0.589	0.0167	1

### Static Pressure

1 Pa=0.102 mmH <sub>2</sub> O	1 Pa=0.004 inchH <sub>2</sub> O
1 mmH <sub>2</sub> O=0.0394 inchH <sub>2</sub> O	1 mmH <sub>2</sub> O=9.81 Pa
1 inchH <sub>2</sub> O=249 Pa	1 inchH <sub>2</sub> O=25.4 mmH <sub>2</sub> O

InchH <sub>2</sub> O	mmH <sub>2</sub> O	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)

$$L_p = 20 \log \frac{p}{p_0} \text{ (dBA)} \dots\dots\dots (a) \quad P_0 = 20 \mu\text{Pa}$$

$P_0$  the reference sound pressure of human hearing system

$L_p$  sound pressure level

### Similarity algorithm of fan noise

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

$N_1$  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.

$$L_p = L_w - 20 \log(r) - 11 \text{ [dBA]} \dots\dots\dots (c)$$

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

$L_p$  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.**