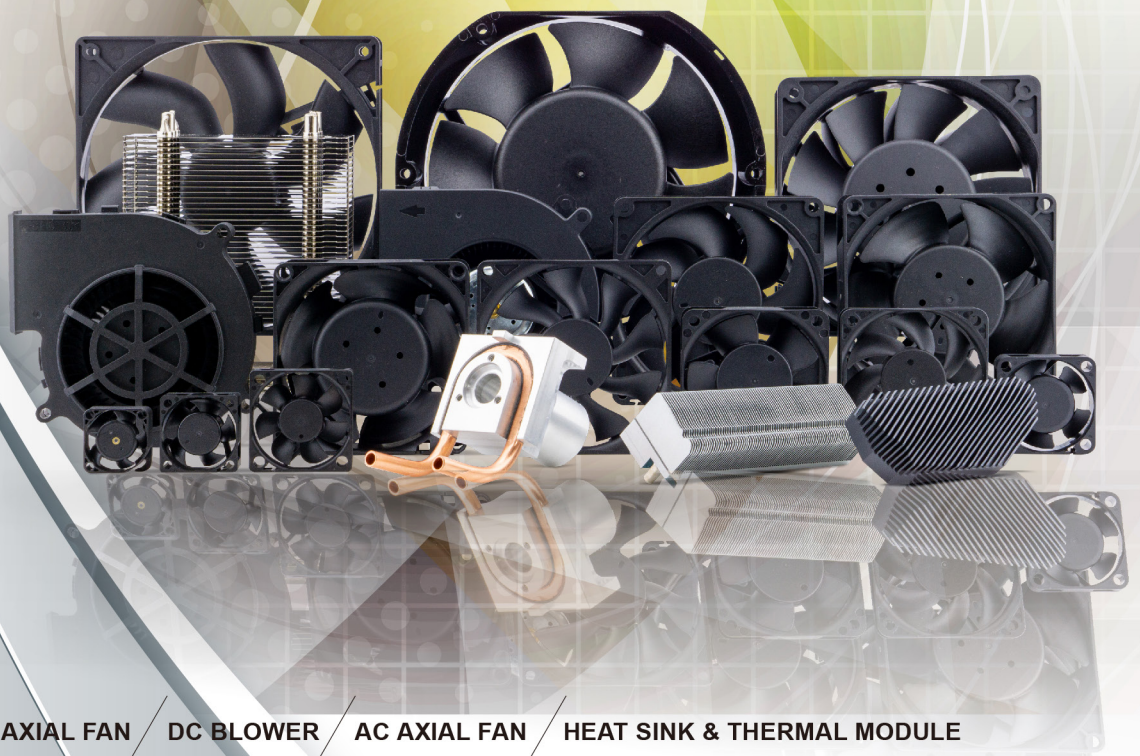




PRODUCTS GUIDE

COOLING SOLUTION ENGINEERING HANDBOOK

Your Best Partner@ Cooling & Ventilation



DC AXIAL FAN / DC BLOWER / AC AXIAL FAN / HEAT SINK & THERMAL MODULE



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COOLING SOLUTION ENGINEERING HANDBOOK

TABLE OF CONTENTS

▶ About Y.S. TECH	02
▶ Fan Model Numbering System	05
▶ Engineering Infomation	06
▶ Heat Sink & Thermal Model	11
▶ Automotive Applications	12
▶ Wide range of industries application	13

DC Fan



25mm			80mm		
FD2510-N SERIES	25x10mm	16	FD8015 SERIES	80x15mm	40
30mm			FD8020 SERIES	80x20mm	41
FD3010-N SERIES	30x10mm	17	FD8025 SERIES	80x25mm	42
FD3015-N SERIES	30x15mm	18	FD8025-E SERIES	80x25mm	43
36mm			FD8025-N SERIES	80x25mm	44
FD3628-P SERIES	36x28mm	19	FD8025-H SERIES	80x25mm	45
38mm			FD8032-E SERIES	80x32mm	46
FD3828-P SERIES	38x28mm	20	FD8038-E SERIES	80x38mm	47
FD3848-P SERIES	38x48mm	21	92mm		
40mm			FD9225 SERIES	92x25mm	48
FD4010 SERIES	40x10mm	22	FD9225-N SERIES	92x25mm	49
FD4010-N SERIES	40x10mm	23	FD9225-S SERIES	92x25mm	50
FD4015-N SERIES	40x15mm	24	FD9225-Q SERIES	92x25mm	51
FD4020-H SERIES	40x20mm	25	FD9238-E SERIES	92x25mm	52
FD4020-N SERIES	40x20mm	26	120mm		
FD4028-E SERIES	40x28mm	27	KM1225 SERIES	120x25mm	53
45mm			FD1225 SERIES	120x25mm	54
FD4510 SERIES	45x10mm	28	FD1225-Q SERIES	120x25mm	55
50mm			FD1232 SERIES	120x32mm	56
FD5010-N SERIES	50x10mm	29	FD1238 SERIES	120x38mm	57
FD5015 SERIES	50x15mm	30	FD1238-Q SERIES	120x38mm	58
FD5015-N SERIES	50x15mm	31	FD1238-R SERIES	120x38mm	59
FD5020 SERIES	50x20mm	32	FD1238-E SERIES	120x38mm	60
60mm			140mm		
FD6010 SERIES	60x10mm	33	FD1425-N SERIES	140x25mm	61
FD6015 SERIES	60x15mm	34	172mm		
FD6015-N SERIES	60x15mm	35	FD1751 SERIES	172x51mm	62
FD6020 SERIES	60x20mm	36			
FD6025 SERIES	60x25mm	37			
FD6025-W SERIES	60x25mm	38			
FD6038-P SERIES	60x38mm	39			

DG Blower

50mm		
BD5015 SERIES	50x15mm	63
60mm		
BD6018 SERIES	60x18mm	64
BD6025 SERIES	60x25mm	65
75mm		
BD7530 SERIES	75x30mm	66
97mm		
BD9733 SERIES	97x33mm	67
BD9733-N SERIES	97x33mm	68
120mm		
BD1232 SERIES	120x32mm	69

Seat Ventilation		
BD7820 SERIES	72.6x22.3mm	70
BD7920 SERIES	79.6x24.3mm	71
BD1025 SERIES	100x25mm	72
BD1125 SERIES	110x25mm	73

Heat Sink & Thermal Model 11



AG Fan

80mm		
FV8025 SERIES	80x25mm	74
FA08025T SERIES	80x26mm	75
FA08038T SERIES	80x38mm	76
92mm		
FA09225T SERIES	92x25.5mm	77
FA09238T SERIES	92x38mm	78
120mm		
FA12025T SERIES	120x25.5mm	79
FA12038T SERIES	120x38mm	80
172mm		
FA17251T SERIES	172x51mm	81
176mm		
FA17689T SERIES	176x89mm	82
180mm		
FA18065T SERIES	180x65mm	83
254mm		
FA25489T SERIES	254x89mm	84
280mm		
FA28090T SERIES	280x89mm	85





Business Vision

YEN SUN TECHNOLOGY CORP. was established in 1987, a professional manufacturer and innovator of electronics thermal and ventilation solution. The core technology integrates Aero Dynamics, System Thermal analysis, Psycho-Acoustics, Vibration and Intelligent Motor Control, which provides a series of service of thermal simulation and project planning for the automotive electronics, green energy, power electronics, high-end industry and 5G & data center industries. Y.S. Tech. provides a series of high performance and highly reliable Brushless DC (BLDC) cooling fan, EC/BLDC ventilation devices, heat sink and thermal module to the worldwide market with the brand of "Y.S. Tech.", and is ambitiously to become **Your Best Partner @ Cooling & Ventilation.**



Core Technology

Your Best Partner
@ **Cooling & Ventilation**

Artificial intelligence (AI) technology impacts the human being life significantly. The high intelligent control, flexible design and high reliable of electrical device have been gotten involved actively in smart manufacturing, autonomous car, big-data analysis, health care services and even lead the revolution in life sciences segment. Y.S.Tech has been engaged in being the manufacturer of high quality and reliable cooling & ventilation product, to be your good partner of electronics thermal and ventilation solutions. We invest the plenty of research and development resource every year in variant segments, including Bionic-Fluid-Dynamic, Aero-Dynamic, Psycho-Acoustics, Vibration Analysis, Thermal Dynamic, Hardware-Software Intelligent Motor Control and Intelligent Manufacturing and got more than 800 patents all over the world.



Quality and Environmental Policy

We believe that maintaining the quality of our planet's environment and protecting the health of our team members is fundamental to ensuring our continued growth and development.

Regarding quality; Y.S. Tech is dedicated to the continuous improvement of our processes through maintaining and expanding all relevant certifications such as; IATF 16949, ISO 9001, ISO 14001 (certified by TUV); and maintaining of our status as tier 1 automotive supplier.

Regarding our environment; We trust good product life and reliability can reduce waste; green products can save energy and reduce damage to our planet. We are dedicating to research in Bionic-Fluid-Dynamic, Aero-Dynamic, Psycho-Acoustics, Vibration Analysis, Thermal Dynamic, Hardware-Software Intelligent Motor Control to provide even better cooling ventilation solutions that have a long life, high reliability and are Eco-Friendly.Y.S. Tech is dedicated to using lean and best manufacturing practices to reduce waste and improve efficiency. We also continually monitor and adhere to global regulations. Y.S. Tech is not only your Best Partner for Cooling and Ventilation solutions but also good practitioner of our planet.





Occupational Health & Safety Policy

Regarding our employees' health and safety, Y.S. Tech ,a OHSAS 18001/ISO 45001 certified global company, is dedicating to introduce training and partial program to promote the physical and mental health of our workers and executives. We are committed to continuous research and development in Risk Prevention and Poka-Yoke actions to change perceptions and to raise awareness of our team so that they may better recognize and avoid dangerous situations.



Culture, Work Life & Career

Teamwork, openness, straightforwardness, sharing, self-critical and, supporting are the phrases that best describe our work life and culture at Y.S. Tech. We always encourage our team to strive for perfection, through continuous self-improvement and personal enrichment so that we can collectively provide greater value to our company and our customers.

We promote flexible learning opportunities for the team and the individual so that we can continue to be your Best Partner for cooling and ventilation.

FAN Model Numbering System

FD 24 80 25 E B - N (Suffix)

1 2 3 4 5 6 7

Explanation

1 Product Series(2 codes)

FD : Axial DC Fan **BD** : DC Blower
KM : Axial DC Fan **PD** : T.M.D.FAN

2 Voltage Type(2 codes)

05 : 5V **12** : 12V
24 : 24V **48** : 48V

3 Dimension (2 codes)

25 : 25mmx25mm **30** : 30mmx30mm
40 : 40mmx40mm **45** : 45mmx45mm
50 : 50mmx50mm **60** : 60mmx60mm
70 : 70mmx70mm **75** : 75mmx75mm
80 : 80mmx80mm **92** : 92mmx92mm
97 : 97mmx97mm **12** : 120mmx120mm
17 : 172mmx150mm

4 Thickness(2 codes)

10 : 10mm **15** : 15mm
20 : 20mm **25** : 25mm
28 : 28mm **30** : 30mm
32 : 32mm **33** : 33mm
38 : 38mm **51** : 51mm

5 Speed(1 code)

L : Low Speed **M** : Medium Speed
H : High Speed **E** : Extra High Speed
U : Ultra Speed **S** : Super Speed

6 Bearing Type(1 code)

B : Ball Bearing **S** : Sleeve Bearing
L : Sintetico Bearing

7 Impeller Type(1 code)

N : Type N **E** : Type E **H** : Type H
P : Type P **R** : Type R **S** : Type S
☐ : Standard Type

(Suffix):(2 A 7 L F)

a b c d e

a : Number of Bearing

1 : One Ball/Sleeve Bearing
2 : Two Ball Bearing

b : Function

N : Transistor (2 wires)
A : Transistor With FG Signal(3 wires)
I : Auto-Restart IC (2 wires)
F : Tachometer IC (3 wires)
R : Alarm High IC (3 wires)
C : Alarm High (R) + Tachometer (F) IC
J : Alarm High (R) + PWM (B) IC
Q : Alarm Low IC (3 wires)
P : Alarm Low (Q) + Tachometer (F) IC
S : Alarm high-low IC (3wires)
T : Thermistor IC (2 wires)
E : Thermistor IC(T)+VR
D : Thermistor IC(T)+VR+Tachometer(F) IC
M : Thermistor (T) + Tachometer (F) IC
X : Thermistor (T)+Alarm High(R) IC
V : Thermistor (T) +Alarm High-Low (S) IC
W : Pulse Width Modulation (PWM) IC
B : Pulse Width Modulation(PWM) IC, Without FG Signal
U : PWM(W)+Thermistor IC(T)
G : Vcc With PWM Control, Without FG Signal
H : Vcc With PWM Control, With FG Signal

c : Speed Level

1.2.3....9.B.D.F.H.U

d : Customized Version

B : Wide Operating Voltage Range Model
E : Wide Operating Temperature Range Model
H : HDB
Q : New Blades Design Q Type
W : New Blades Design W Type
L : LED Fan
K : KM Fan
R : Round Frame Fan
Y : Frameless
☐ : Standard Type

e : Special Model Version

AC Fan Model Numbering System

F A1 120 38 H B T - T (Suffix)

1 2 3 4 5 6 7 8

1 Product Type / F : AC FAN B : AC Blower

2 Voltage Type / A1 : 110/115VAC A2 : 220/230VAC

3 Dimension / 080 : 80X80mm 092 : 92X92mm 120 : 120X120mm 172 : 172X150mm 180 : 180X180mm 254 : Ø254mm 280 : 280X280mm

4 Thickness / 25 : 25mm 38 : 38mm 51 : 51mm 65 : 65mm 89 : 89mm

5 Speed / L : Low Speed M : Medium Speed H : High Speed E : Extreme Speed

6 Bearing Type / B : Ball Bearing S : Sleeve Bearing

7 Connecting Type / L : Lead Wire T : Terminal

8 Impeller Type / T : Type T ☐ : Standard Type

Suffix : Protection Function / E : External Rotor Fan

T : Temperature Sensor

TC : Temperature Sensor+Capacitor

Normally, most users are used to select cooling fan or blower by referring maximum flow rate, maximum static pressure and rotational speed data in product specification. It's not a complete thinking, because the fan is always working inside the system. Y.S. TECH has to highly recommend you to focus on demanded operating point works in fan performance curve profile, do not only refer the maximum point or rotational speed. Meanwhile, a cooling requirement should not only regard flow rate or static pressure, but two key factors of power consumption and acoustic noise. However, these critical factors are trade-off, so how do we select a right fan to meet with thermal solution. We are going to illustrate you some methods how to select a right fan in the following content. And then we will discuss other important technical topics including Life (L10), RoHS and Application Note.

STEP 1:

Ask five questions before choosing a fan

Here are five questions of thermal inquiry we need to verify at first. That include:

1.Watt:

How many watts would you need to dissipate?

2.Air Impedance:

What is your system air-impedance?

3.Noise:

What is acoustic noise specification you need?

4.Temperature Gradient:

What is your design of ΔT ?

5.Dimension:

What is fan dimension you need?

STEP 2:

Choose a right fan & blower to meet your thermal inquiry

The effects of heat transfer include Conduction, Convection and Radiation. Most heat transfer by conduction and radiation effects that concern about system mechanism. For example, a good chassis or heatsink design is more helpful for thermal solutions. Convection effects contain free convection and forced convection. Cooling fan and blower are the major effect for force convection and always increase entire thermal solutions more efficient. Illustration 1 shows you a normal system of heat dissipation status. $P_{con\&rad}$ presents heat dissipation on free convection and Radiation transfer. P_{sys} presents total power consumption of system. P_{fan} presents forced convection that need cooling fan or blower to dissipate. ΔT presents Temperature Gradient $\Delta T = T_2 - T_1$, T_2 is the thermal spec of critical parts with margin tolerance. T_1 presents Ambient Temperature.

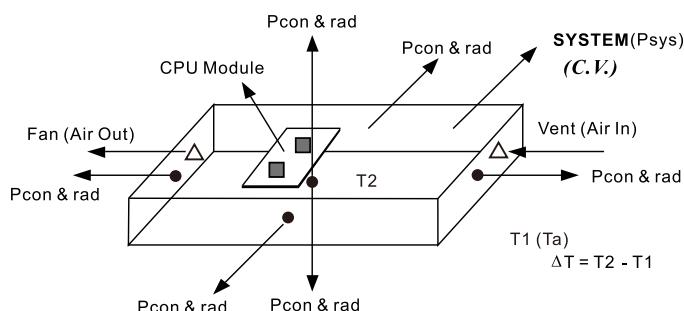


Illustration 1: System Heat transferred

Then we can estimate Flow Rate inquiry by followed equations

$$P_{fan} = P_{sys} - P_{con\&rad}$$

$$P_{fan} = C_p \times Q \times \rho \times \Delta T$$

$$Q_{eff}(CFM) = \frac{P_{fan}}{C_p \times \rho \times \Delta T} = \frac{1.76 \times P_{fan}}{\Delta T_c} = \frac{3.16 \times P_{fan}}{\Delta T_f}$$

Q_{eff} : Efficiency Flow Rate

ρ : Gas Density

C_p : Specific Heat of Gas

$Q_{eff} = 3160 \times KW / \Delta T_f$

ΔT_f : Allowable temperature rise in degree Fahrenheit

ΔT_c : Allowable temperature rise in degree Celsius

By incorporating conversion factors, specific heat and density of sea level air we can summarize above equations as Q_{eff} that called effective flow rate. Q_{eff} ask fan's operating point need to be met. In another words, Fan Operating Point should over or equal to Q_{eff} . Fan Operating Point is an intersection point by fan performance curve (flow rate/ static pressure) and system air impedance curve. It's caused by different system or components placement and form factors. Normally, It is measured by static pressure, ΔPi . Its formula may show as below:

$$\Delta Pi = kQ^n$$

k : System form factor constant value.

Q : Flow rate by different impedance

n : Coefficient of turbulence

$1 < n < 2$. Laminar Flow, $n = 1$; Turbulence Flow, $n = 2$

Illustration 2 shows two fans performance curve and system air impedance curve.

Even B's maximum flow rate is higher than A's but the Q_{op_A} better than Q_{op_B} . Both Q_{op_A} and Q_{op_B} are Operating Points.

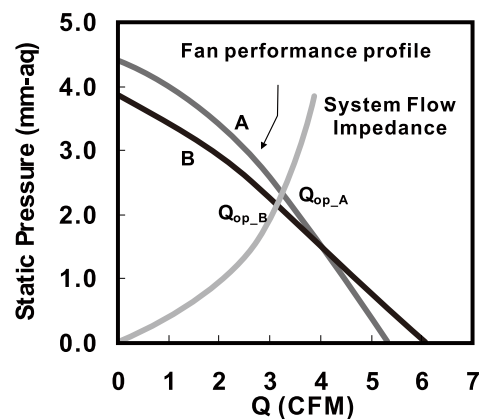


Illustration 2: Fan Performance Comparison

If $Q_{op_B} < Q_{eff} < Q_{op_A}$,

Then we can say Fan A is a proper choice for this thermal solution. So that why we emphasize that focus on fan performance profile rather than on maximum flow rate or static pressure or rotational speed.

STEP 3: Choose a solution with Low Noise

As aforementioned, the flow rate, static pressure and acoustic noise are always trade-off. It is very difficult to think over these factors at the same time. Meanwhile, a lot of troubles are caused by improper applications too. For example, fan mounted to chassis improperly may cause vibration and flow disturbance, and then got higher acoustic noise. Here are some key points regarding to low noise design for your reference:

1. A proper system air impedance design

Higher system air impedance needs a higher static pressure fan, but It accompanies with higher noise. Give an enough space to your critical parts and place them at flow path as possible. But it is a tough work to get space for thermal solutions in a slim and light. However, we recommend you to measure you system air impedance and collect enough parameters to know your ΔPi . Normally, most specialized fan manufacturers will support you to measure it by Air Chamber.

2. Choose a proper fan that base on Q_{eff}

We have illustrated you a method to figure out a right fan for Q_{eff} , and then you should consider about power consumption and acoustic noise. Which one is the first priority? To evaluate these two parameters under the same Q_{eff} base is Y.S. TECH's recommendations.

3. Review a fit mechanism design between fan and application system

Vibration and Flow Disturbance always cause resonance and get higher acoustic noise. A proper fan mounting and flow field design may decrease acoustic noise. For example, mounting with a rubber cap on high-speed fan model will decrease vibration resonance. Review your design to make sure there is enough margin space (over 1.5mm) at flow inlet/outlet side and no any stuff to disturb flow filed.

4. Advance fan speed control by your thermal profile (Hardware & Software, LIN/CAN BUS support)
Thermal profile is similar to fan performance profile. Normally, different function will need to dissipate different power consumption. Then we can modulate fan rpm and ask fan working on a proper rpm by different system function. The most popular advanced fan speed controls are PWM control (Pulse Width Modulation), Thermostat control (NTC, thermistor) and both of them, the more precise control can be designed by MCU programing as well.

5. Sound Quality analysis

In cooling fan industry, we are always focused on Sound Pressure only in the past but there is no longer sufficient to us because even though legal regulations have lead to a reduction of noise limits, the tendency of people to feel disturbed by noise is increasing. A sole reduction of noise levels is thus not sufficient to reduce the annoyance due to noise to a degree noticeable by human beings. This is due to the fact that the subjective human aural perception is often disregarded. However, the judgment of a sound event involves a wide range of different parameters forming into the total hearing impression. So we are not only concern about sound pressure but also 「Sound Quality」.

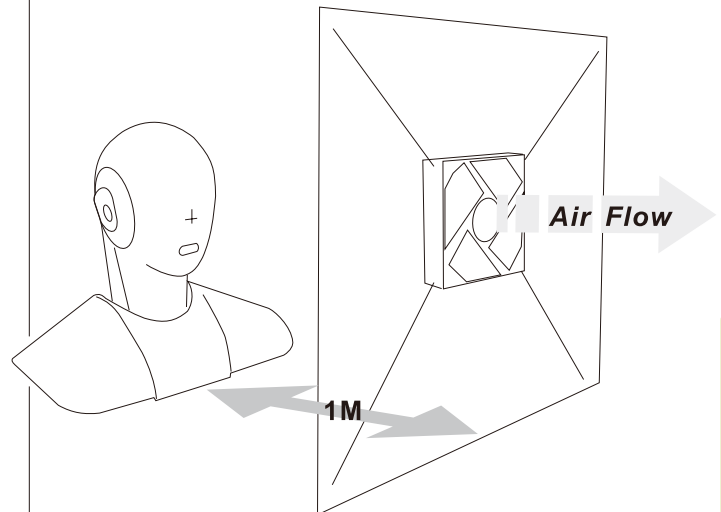
The examination methods are based on the idea of correct recording and describing the noise exposure from the acoustic environment in a way that reflects what humans subjectively perceive. In order to record this entire perception, physical aspects as well as psychoacoustic characteristics of hearing and cognitive aspects must be considered. The main focus of psychoacoustics is the subjective aural perception by human beings. The goal is objectively describing this subjective perception. Psychoacoustic measuring methods account for the actual hearing impression, as opposed to conventional measuring methods that only record the sound level in the form of the equivalent continuous sound level.

Y.S. TECH introduced the 「Sound Quality Analysis System」 of HEAD ACOUSTIC in German.

Those include an Artificial Head and analysis tool and also the most popular measuring and analysis system in automotive industry. Its parameters are include 「SPL, sound pressure level」, 「Tonality」, 「Sone」 and 「Modulation」.

The measuring method and standards are as below:

1. ANECHOIC Room Noise Measurement System.
2. Digital Head Measurement System, 16-bits version.
3. SClab III, Mobile Multi-channel Analysis System.
4. Specifications: ISO 7779, CNS 6753, JIS 8346
5. Background Noise: < 17dB(A)



Cooling Fan Life Expectancy: L_{10} and $MTTF$

Fan reliability can be evaluated in several ways. The data for a life test can be plotted as a cumulative distribution that shows the total fraction of fans failing up to any operating time. Fig. 1 is a sample of cumulative distribution, which was stopped at 8,400 hours after 18 out of 48 fans had failed.

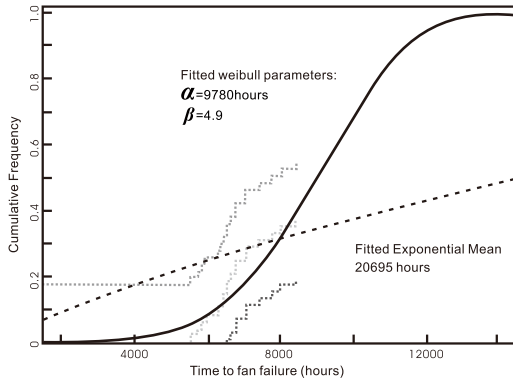


Figure 1 : Sample cumulative distribution function, Weibull vs. Empirical with 95% confidence bands
(Reference : IBM Corp., May 1996, Vol.2, No.2, Electronics Cooling)

Some vendors provide life expectancy data to customers based on the exponential assumption. However, life test data does not support the use of the exponential distribution. Nevertheless the past experimentation fitting has shown that the Weibull distribution provides a good fit to real fan life data. The **Cumulative Distribution Function, $F(t)$** of Weibull distribution is a below:

$$F(t) = 1 - e^{-(t/\alpha)^\beta}$$

Where t : age
 α : characteristic life (Scale Parameter)
 β : shape parameter

Then Reliability Function is $R(t) = e^{-(t/\alpha)^\beta}$

$$MTTF = \int_0^\infty R(t) dt = \alpha \Gamma(1 + 1/\beta) \quad \Gamma : \text{Gamma Function}$$

Normally, L_{10} was introduced a life expectancy parameters by fan vendors. That means the tenth percentiles under an assumed life distribution such as the Weibull. Sometimes vendors will also quote the Mean Time To Failure ($MTTF$) then we need to figure out the correlation between L_{10} and $MTTF$ by following equations:

$$\begin{aligned} \because L_{10} \text{ Means age } t \text{ when } F(t) &= 0.1 \\ \therefore 0.1 &= 1 - e^{-(L_{10}/\alpha)^\beta} \\ L_{10} &= \alpha (0.10536)^{1/\beta} \\ MTTF &= 7.46 \times L_{10} \approx 7 \times L_{10} \quad (90\% \text{ Confidence Level}) \end{aligned}$$

After we have verified the correlation between L_{10} and $MTTF$, we also need to know how long should a sample size be tested to determine with 90% confidence level that L_{10} greater than or equal to expectancy value at a test temperature without failure ($x = 0$). Here we introduce the Poisson Distribution to estimate.

$$\begin{aligned} P(x, t) &= \{(\lambda t)^x e^{-\lambda t} / x!\} \\ P(0, t) &= \{(\lambda t)^0 e^{-\lambda t} / 0!\} = e^{-\lambda t} \\ \therefore R(t) &= e^{-(t/\alpha)^\beta} \\ MTTF &= \alpha \Gamma(1 + 1/\beta) \\ \therefore t &= \alpha [(B_{rc} / c) / n]^{1/\beta} \\ t &= [MTTF / \Gamma(1 + 1/\beta)] \times [(B_{rc}) / n]^{1/\beta} \end{aligned}$$

where B_{rc} is Poisson Distribution Factor

Normally on the condition of 90% confidence level and 0 failure then $B_{rc} = 2.303$.

Then we introduce **Takes Martin Marietta Model** to estimate Life at different environment stress.

$$AF = [Va / Vu] \times 2^{(Ta - Tu)/10}$$

where

AF : Acceleration Factor
 Va : Actual Testing Voltage
 Vu : Rating Voltage
 Ta : Actual Testing Temperature
 Tu : Rating Temperature
 if $Va = Vu$
 then $AF(t) = 2^{(Ta - Tu)/10}$

Then we can define the **Required Test Time (t)** with zero failure is as below:

$$t = [MTTF / \Gamma(1 + 1/\beta)] \times [(B_{rc}) / n]^{1/\beta} / 2^{(Ta - Tu)/10}$$

where $MTTF$ is an expectancy value

Management Regulations for the Environment-Related Substances

SUBSTANCES	Allowable Content(ppm)		
	RoHS	SONY SS-00259	REACH
Cadmium and Cadmium compounds	1.Plastics, rubbers 2.Paints 3.Inks Solders Other homogeneous materials	N.D. N.D. N.D. N.D. N.D.	-- -- -- -- --
Lead and Lead compounds	1.Plastics, rubbers 2.Paints 3.Inks Other homogeneous materials	<50 N.D. N.D. N.D.	-- -- -- --
Mercury and Mercury compounds	All	N.D.	--
Hexavalent Chromium compounds Chromium (VI)	Metallic parts or metallic surface coating Other homogeneous materials	N.D. N.D.	-- --
PBBs ~ PBDEs	All	<1000	--
Di-isobutyl phthalate (DIBP)	All	<1000	--
Dibutyl phthalate (DBP)	All	<1000	--
Butyl Benzyl phthalate (BBP)	All	<1000	--
Di- (2-ethylhexyl) phthalate(DEHP)	All	<1000	--
Red phosphorus	All	N.D.	--
SVHC	All	<80	--
Total concentration of four heavy metals for product package (Concentration of Cadmium for Plastics (including Rubber) has to less than 5ppm)			
Concentration of lead for Steel Alloys		<3500	--
Concentration of lead for Aluminum Alloys		<4000	--
Concentration of lead for Copper Alloys		<40000	--
	--	--	<1000

Note:

1. Yen Sun Technology Corporation (Y.S. TECH) guarantees that all products we produce involved with all spare parts, materials, packing materials, manufacturing process and additives in the manufacturing process are fully comply with the requirements of Directive 2011/65/EU (RoHS 2.0) and 2015/863/EU.

2. Standards for Preconditioning and Measurement

1.Pre-conditioning

1. Cd/Pb/Hg:

1.1 For different material,digest the sample with appropriate acid*1.

1.2 Confirm the tested samples are totally dissolved.

1.3 Make up with deionized water.

1.4 Analyzed by ICP-OES.

2. Cr6+:

2.1 Metal:

2.1.1 50cm2 sample, boiling water extraction.

2.1.2 Cool and filter the extract.

2.1.3 Make up with deionized water and add diphenylcarbazide solution.

2.1.4 Visual observation*2.

2.1.5 Analyzed by UV-VIS.

2.2 Polymers / Electronics:

2.2.1 Soluble polymers:

(1) Weigh a sample.

(2) Add NMP, ultrasonic extraction.

(3) Alkaline digestion.

(4) Reaction with DCP.

(5) Make up with D.I. water.

(6) Analyzed by UV-VIS.

2.2.2 Insoluble/unknown polymers and electronics

(1)Weigh a sample.

(2) Add toluene and digestion solution.

(3) Heat sample in a microwave oven.

(4) Take aqueous phase for DCP reaction.

(5) Make up with D.I. water.

(6) Analyzed by UV-VIS.

3. PBBs/PBDEs

3.1 Weigh sample and add organic solvent.

3.2 By solvent extraction.

3.3 Concentrate the extract and make up with organic solvent.

3.4 Analyzed by GC-MS.

4. Phthalates:(DIBP, DBP, BBP, DEHP)

4.1 Sampling.

4.2 Weigh sample and add organic solvent.

4.3 By solvent extraction.

4.4 Analyzed by GC-MS.

5. Red phosphorus:

5.1 Sampling

5.2 Put sample into the sample cup

5.3 Analyzed by Pyrolyzer-GC-MS

6.REACH-SVHC

6.1 Sampling.

6.2 Sample pretreated by acid digestion, solvent extraction.

6.3 Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD.

*1: List of Appropriate Acid :

Material	Acid Added for Digestion
Polymers	HNO3,HCl,HF,H2O2,H3BO3
Metals	HNO3,HCl,HF
Electronics	HNO3,HCl,H2O2,HBF4

*2: If sample solution is significantly more intense than 0.13 µg/cm2 equivalent comparison standard, Chromium VI would be determined as detected, the result of visual observation is positive.

II. Measurement methods

Typical measurement methods are as follows,

1.Cd/Pb: IEC 62321-5:2013

2.Hg: IEC 62321-4:2013

3.Cr6+:

3.1 IEC 62321-7-1:2015 (boiling water extraction)

3.2 IEC 62321-7-2:2017 (solvent and alkaline extraction);

4.PBBs/PBDEs: IEC 62321-6:2015

5.Phthalates:(DIBP, DBP, BBP, DEHP): IEC 62321-8:2017

6.Red phosphorus: By Pyrolyzer-GC-MS analysis.

7.REACH-SVHC: Laboratory in-house method.

III.Environmental Logo



Environmental Concern & Keep Improving

Cooling Fan and Blower Application Notices Test Conditions and definitions

Most specifications of cooling fan are measured after 5 minutes rotating in an ambient of 25°C / 65% RH The operating voltage and temperature were defined after fan rotating continually at rated voltage. Starting Voltage was defined on power on/off condition and Rotational Speed was defined on full speed by its rated value. Except for the feature of the Lock Rotor Protection specifically stated, Y.S. Tech highly suggests not to stop the impellers of the working fans such interruption will cause adverse effect. Noise Level is different from abnormal noise. We estimate noise level by equation when noise level is lower than background noise (17dB). L10 of Life test is a deductive value under statistical method and it is different from product warranty.

Handling

Please be cautious when fan is being exercised or handled. Applying pressure to the impeller, handling the fan by lead wire, or dropping the fans to the production platform is resulting in damage.

Fan is to be stored in a dry/cool place. High levels of humidity are harmful to products. If fan is stocked at an ambient temperature under 5°C and over 24 hrs. Please stock fans to an ambient temperature over 20°C and remained over 24 hrs before using. All specifications include abnormal noise have to be measured after 30 minute running.

The correct polarity, Positive (+) and Negative (-), has to be clearly identified before connecting the fan to the power. Be aware of the connection with reverse polarity may lead to damage since no effective protection can be introduced against such errors.

With exception of suitability of some particular designs, any failure and problems regarding safety of the product caused by the introduction of powder, droplets of water or encroachment of insert in the hub are not guaranteed. It is also not well suited for corrosive environments that include liquids, gases, or matters.

After Service

A written request should be submitted to Y.S. Tech prior to approval if abnormality and deviation from specification is required. Meanwhile, send abnormal samples to Y.S. TECH for more detail analysis is necessary.

Other Reminding

Please be cautious. Y.S. Tech is not responsible for any excess resonance, vibration and subsequent noise caused by incorrect mounting of fans. Take necessary precaution handling fans when in operation. Finger guards are recommended to prevent personal injury. To avoid any unstable power, an "over 4.7 µF" capacitor has definitely be connected to fan externally whatever multiple fans are applied in parallel.

Conversion Tables and Equations

I . Air Flow Rate

m ³ /s	m ³ /min	l/s	l/min	m ³ /h	ft ³ /s	CFM
1	6 x 10	1 x 10 ³	6 x 10 ⁴	3.6 x 10 ³	3.531 x 10	2.118 x 10 ³
1.667 x 10 ⁻²	1	1.667 x 10	1 x 10 ³	6 x 10	5.885 x 10 ⁻¹	3.531 x 10
1 x 10 ⁻³	6 x 10 ⁻²	1	6 x 10	3.6	3.531 x 10 ⁻²	2.118
1.667 x 10 ⁻⁵	1 x 10 ⁻³	1.667 x 10 ⁻²	1	6 x 10 ⁻²	5.9 x 10 ⁻⁴	3.54 x 10 ⁻²
2.778 x 10 ⁻⁴	1.667 x 10 ⁻²	2.778 x 10 ⁻¹	1.667 x 10	1	9.81 x 10 ⁻³	5.886 x 10 ⁻¹
2.832 x 10 ⁻²	1.69833	2.832 x 10	1.6983 x 10 ³	1.019 x 10 ²	1	6 x 10
4.72 x 10 ⁻⁴	2.831 x 10 ⁻²	0.472	2.831 x 10	1.6983	1.667 x 10 ⁻²	1

II . Static Pressure

P _s = N/m ²	mm-H ₂ O	inch-H ₂ O	Kgf/cm ²	atm	bar	lbf/in ²
1	1.019 x 10 ⁻¹	4.017 x 10 ⁻³	1.019 x 10 ⁻⁵	9.869 x 10 ⁻⁶	1 x 10 ⁻⁵	1.450 x 10 ⁻⁴
9.80665	1	3.939 x 10 ⁻²	1 x 10 ⁻⁴	9.678 x 10 ⁻⁵	9.806 x 10 ⁻⁵	1.442 x 10 ⁻³
2.49 x 10 ²	25.4	1	2.54 x 10 ⁻³	2.46 x 10 ⁻³	2.49 x 10 ⁻³	3.61 x 10 ⁻²
9.807 x 10 ⁴	10 ⁴	3.937 x 10 ²	1	0.9678	0.980665	14.22334
1.0133 x 10 ⁵	1.0332 x 10 ⁴	4.071 x 10 ²	1.033323	1	1.01325	14.696
1 x 10 ⁵	1.0197 x 10 ⁴	4.018 x 10 ²	1.101972	0.986923	1	14.5038
6.895 x 10 ³	7.031 x 10 ²	27.686	7.031 x 10 ⁻²	6.805 x 10 ⁻²	6.895 x 10 ⁻²	1

III. System Allowable Temperature Rise (ΔT) at P_{fan} v.s. Q_{eff}

Temperature Rise		P _{fan} (Kwh)									
ΔT _c	ΔT _f	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
50	90	18	35	53	70	88	105	123	141	158	176
45	81	20	39	59	78	98	117	137	156	176	195
40	72	22	44	66	88	110	132	154	176	195	220
35	63	25	50	75	100	125	151	176	201	226	251
30	54	29	59	88	117	146	176	205	234	264	293
25	45	35	75	105	141	176	211	246	281	316	351
20	36	44	88	132	176	220	264	308	351	396	439
15	27	59	117	176	234	293	351	410	469	527	586
10	18	88	176	264	351	439	527	615	704	791	879
5	9	176	351	527	704	879	1055	1230	1406	1582	1758

IV. Acoustic Noise

$$\text{Sound Pressure Level (SPL, dB)} = 20 \log (P/P_0)$$

$$\text{where } P_0 = 20 \mu\text{Pa}$$

P_0 : the reference sound pressure of human hearing system

Similarity Algorithm of Acoustic Noise

ii) By Rotational Speed (rpm)

$$N_2 = N_1 + 50 \log (rpm_2 / rpm_1)$$

where

$$N_1 = \text{Noise level measured at } rpm_1$$

$$N_2 = \text{Noise level calculated at } rpm_2$$

i) By Measuring Distance

$$N_2 = N_1 + 20 \log (\text{Distance}_1 / \text{Distance}_2)$$

where

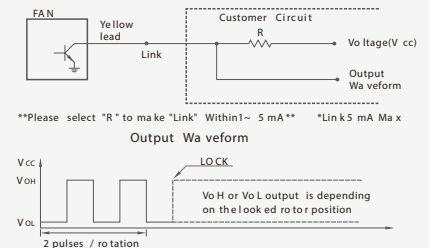
$$N_1 = \text{Noise level measured at } \text{Distance}_1$$

$$N_2 = \text{Noise level calculated at } \text{Distance}_2$$

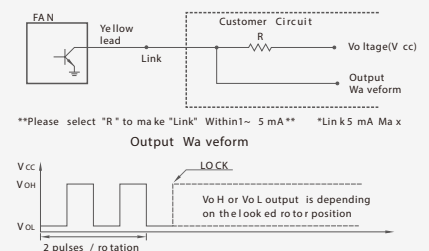
According to above equations, it is very clear the acoustic noise level will reduce 6 dB when the distance doubled. Comparatively, the noise level will also increase 6 dB when distance shorten by half.

Wave form of ic function

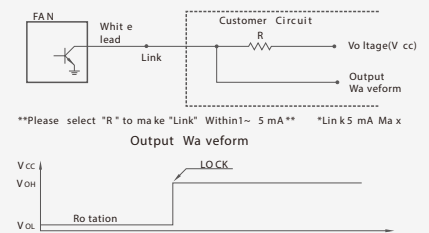
A:3rd Puls e Wi re



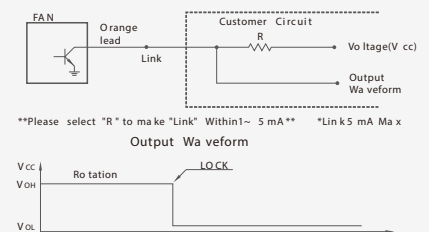
F:Ta chometer / Speed Sensor



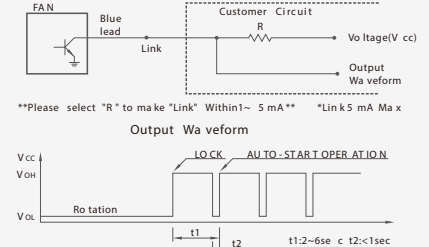
R:Alar m/ High



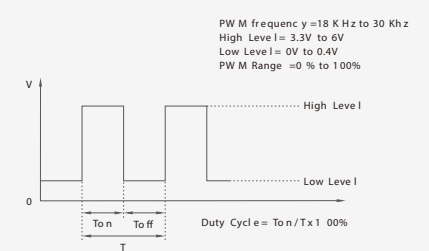
Q:Alar m/ Low



S:Alar m/ High-Low



W:PW M Cont rol Input



Heat Sink & Thermal Model

We are professional in:

「High Precision Machinery」

「Multi-Assembly & Flexibility Manufacture」

「Surface Coating & Coloring」

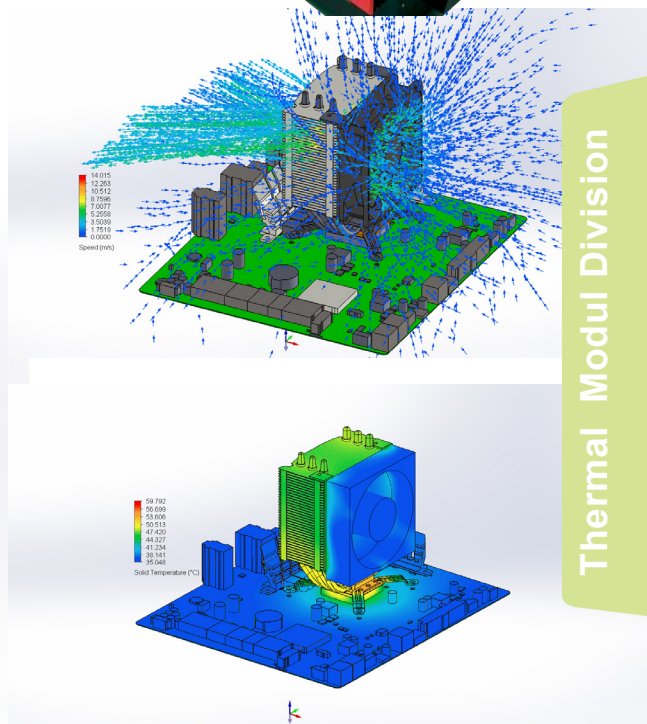


Technical Support

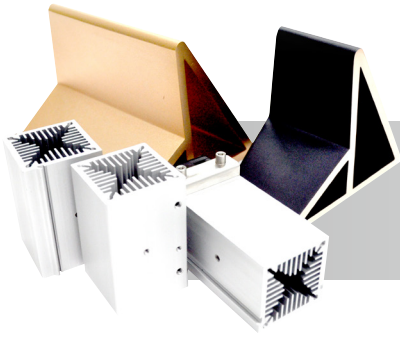
1. System-Based Thermal & Flow Analysis Simulation.
2. Thermal Resistant & Flow Testing
3. Acoustic Analysis & Testing
4. CMM Measurement & Analysis
5. Precision Machining(Tolerance Range : IT6~IT8)
6. Soldering Technology
7. Thermal Components Integration & Assembly
8. Coating, Plating & Anodizing



Product Application



Process and Material



Aluminum Extrusion
AL 6063 、 AL 6061



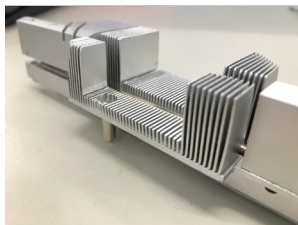
Die-Casting
ADC12 、 ADC10 、 A380



Punching
AL 1050 、 AL 1100
CU 1100



Soldering
Copper - Copper,
Copper - Aluminum,
Aluminum - Aluminum

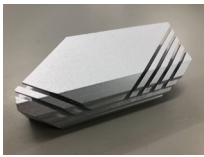


Skiving
AL 6063
CU 1100

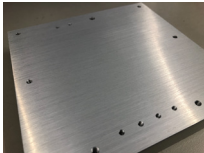


CNC
AL 6063 、 AL 6061 、 ADC10 、 ADC12 、 A380
CU 1100

Surface Finishing

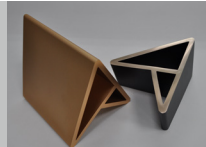


Mechanical surface finishing
Sand blasting

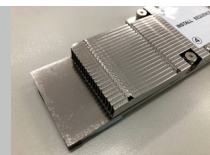


Hairline finishing

Chemical surface finishing
Aluminum Anodizing



Electro-less Nickel Plating

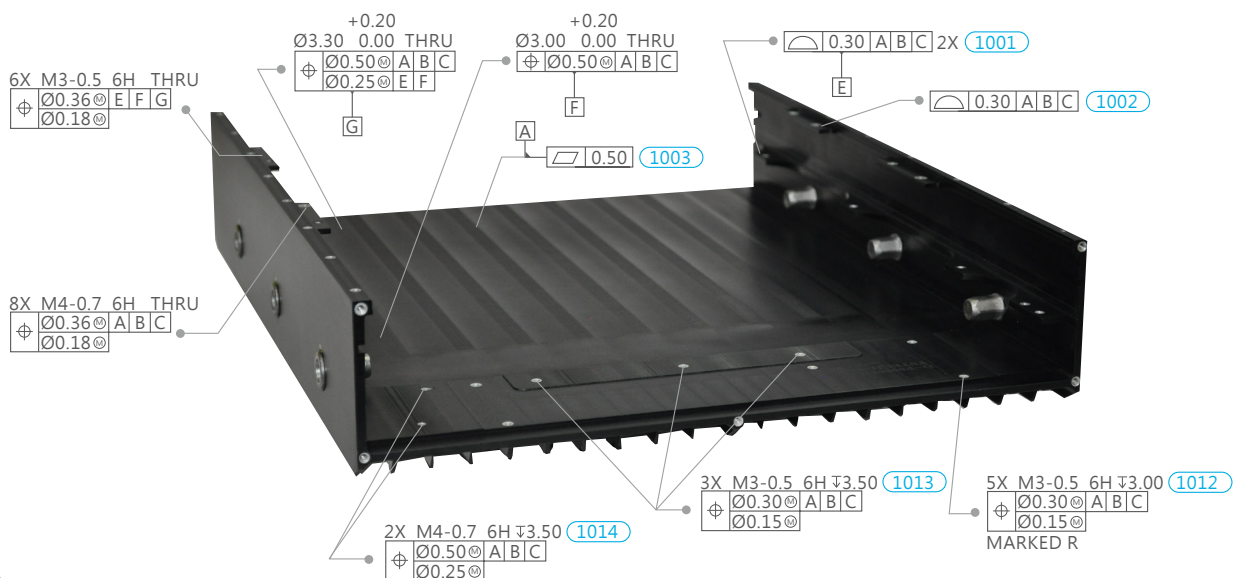


Anti-oxidation



Chromate

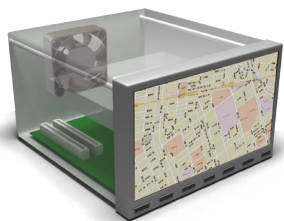
High Precision Machinery



The thermal modules and heatsink series are all customized design and manufacture. Please write down your specification and demand by the email address: ystech@ystech.com.tw or visit Y.S. Tech website, leave your information to us. We will contact with you as soon.



Automotive Applications



Telematics System
(Navigation, Head Unit)



Car Seat Heating /
Cooling System



Multimedia Entertainment System



Auto Air Purification



Wide range of industries application



Rack-Mount Fan Tray



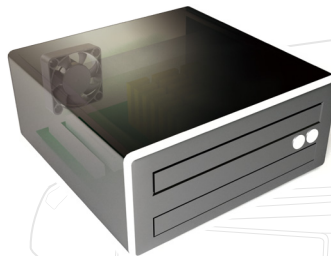
System Chassis Solutions



Network Storage / NAS



Head Lighting



Car Computer System



Audio Amplifier and DC/AC Inverter



Telecommunication Applications



Rack-Mount Ups Systems



Fast Ethernet Switch



1U~13U Network Storage and Server Systems



25x25x10mm

- Airflow: 2.0~3.3 CFM
- Static Pressure: 3.7~6.3 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1571 #28 AWG
- Weight: 7.5 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD052510LB-N	2B	05	4~5.5	7000	2.0	3.7	75	0.38	80000	4	18.0
FD052510MB-N	2B		4~5.5	8500	2.4	4.5	110	0.55	80000	3	22.5
FD052510HB-N	2B		4~5.5	10000	2.8	5.3	140	0.70	75000	2	26.0
FD052510EB-N	2B		4~5.5	12000	3.3	6.3	180	0.90	65000	1	30.0
FD052510LL-N	L		4~5.5	7000	2.0	3.7	80	0.40	50000	4	<17.0
FD052510ML-N	L	12	4~5.5	8500	2.4	4.5	80	0.40	50000	3	19.2
FD122510LB-N	2B		9~13.2	7000	2.0	3.7	40	0.48	80000	4	18.0
FD122510MB-N	2B		7~13.2	8500	2.4	4.5	50	0.60	80000	3	22.5
FD122510HB-N	2B		7~13.2	10000	2.8	5.3	65	0.78	75000	2	26.0
FD122510EB-N	2B		7~13.2	12000	3.3	6.3	70	0.84	65000	1	30.0
FD122510LL-N	L		9~13.2	7000	2.0	3.7	40	0.48	50000	4	<17.0
FD122510ML-N	L		7~13.2	8500	2.4	4.5	50	0.60	50000	3	19.2

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

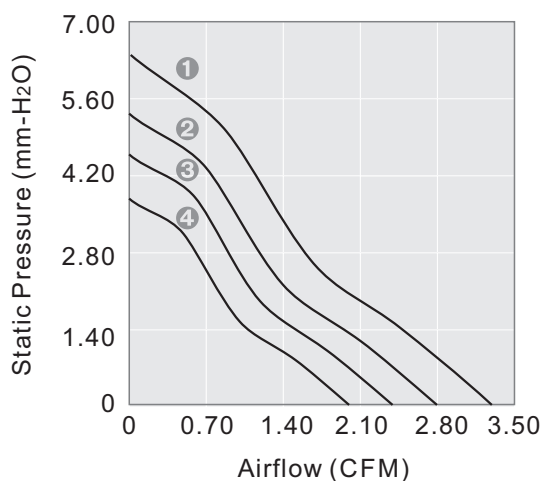
Bearing System Available

2B L S

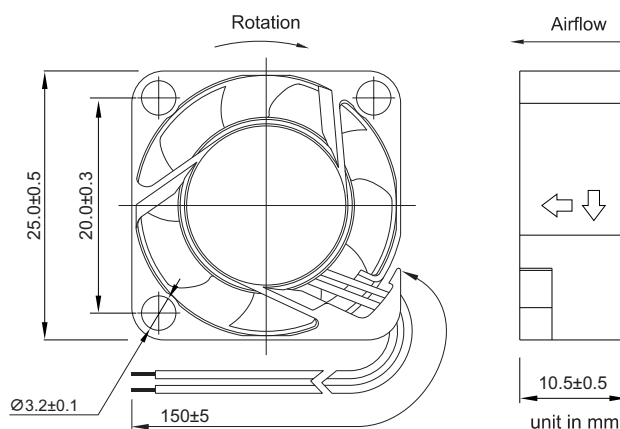
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department. Visit Y.S. TECH web site at <http://www.ystech.com.tw> for updated information. Customized Specifications are designed accordingly



30x30x10mm

- Airflow: 2.5~4.0 CFM
- Static Pressure: 2.0~5.2 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1571 #28 AWG
- Weight: 9 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD053010LB-N	2B	05	4~5.5	5800	2.5	2.0	50	0.25	80000	4	<17.0
FD053010MB-N	2B		4~5.5	6800	3.0	2.7	80	0.40	80000	3	18.0
FD053010HB-N	2B		4~5.5	7800	3.4	3.3	90	0.45	75000	2	21.5
FD053010EB-N	2B		4~5.5	10000	4.0	5.2	120	0.60	65000	1	28.0
FD053010LL-N	L		4~5.5	6000	2.6	2.0	80	0.40	50000	4	<17.0
FD053010ML-N	L		4~5.5	7000	2.9	2.8	105	0.53	50000	3	20.5
FD053010HL-N	L		4~5.5	8000	3.3	3.6	130	0.65	50000	2	23.2
FD053010EL-N	L		4~5.5	10000	4.0	5.2	190	0.95	50000	1	28.0
FD123010LB-N	2B	12	9~13.2	5800	2.5	2.0	35	0.42	80000	4	<17.0
FD123010MB-N	2B		7~13.2	6800	3.0	2.7	40	0.48	80000	3	18.0
FD123010HB-N	2B		7~13.2	7800	3.4	3.3	40	0.48	75000	2	21.5
FD123010EB-N	2B		7~13.2	10000	4.0	5.2	60	0.72	65000	1	28.0
FD123010LL-N	L		9~13.2	6000	2.5	2.0	35	0.42	50000	4	<17.0
FD123010ML-N	L		7~13.2	7000	2.9	2.8	50	0.60	50000	3	20.5
FD123010HL-N	L		7~13.2	8000	3.3	3.6	60	0.72	50000	2	23.2
FD123010EL-N	L		7~13.2	10000	4.0	5.2	80	0.96	50000	1	28.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

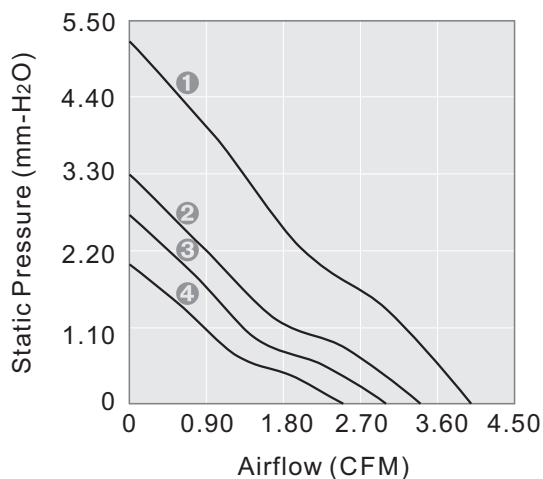
Bearing System Available

2B L S

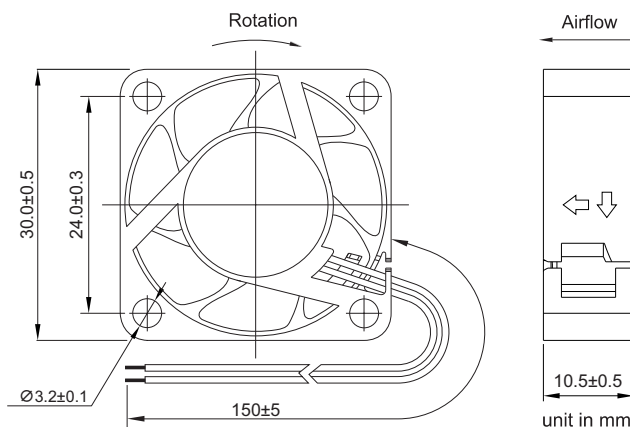
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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30x30x15mm

- Airflow: 3.8~6.1 CFM
- Static Pressure: 2.8~7.1 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1571 #28 AWG
- Weight: 13 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD053015LB-N	2B	05	4~5.5	7000	3.8	2.8	60	0.30	80000	4	<17.0
FD053015MB-N	2B		4~5.5	8000	4.4	3.7	85	0.42	80000	3	20.5
FD053015HB-N	2B		4~5.5	9000	4.9	4.4	110	0.55	75000	2	25.0
FD053015EB-N	2B		4~5.5	11000	5.7	6.3	200	1.00	65000	1	30.0
FD123015LB-N	2B	12	7~13.2	7000	3.8	2.8	30	0.36	80000	4	<17.0
FD123015MB-N	2B		7~13.2	8000	4.4	3.7	40	0.48	80000	3	20.5
FD123015HB-N	2B		7~13.2	9000	4.9	4.4	45	0.54	75000	2	25.0
FD123015EB-N	2B		7~13.2	11500	6.1	7.1	90	1.08	65000	1	30.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

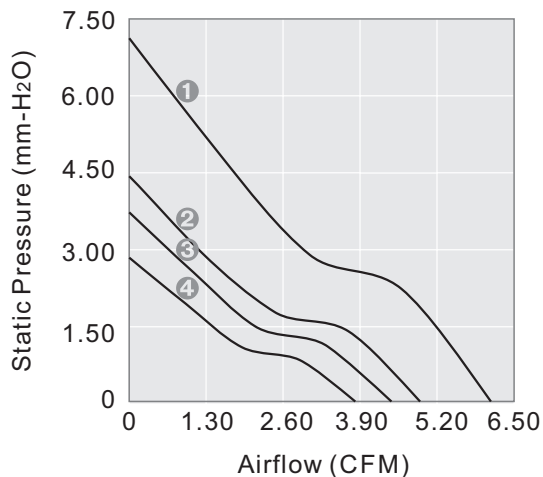
Bearing System Available

2B L S

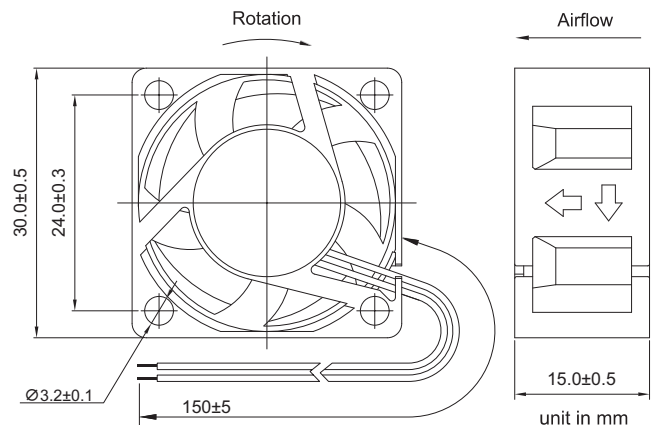
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

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36x36x28mm

- **Airflow: 18.74~24.99 CFM**
- **Static Pressure: 36.63~65.09 mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1061 #28 AWG**
- **Weight: 46.5 g**

	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
Model No.		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
FD123628MB-P	2B	12	7~13.2	17000	18.74	36.63	500	6.00	80000	4	56.0
FD123628HB-P	2B		7~13.2	19000	21.05	46.40	650	7.80	75000	3	59.5
FD123628EB-P	2B		7~13.2	21000	23.22	55.71	850	10.20	65000	2	61.0
FD123628EB-P	2B		7~13.2	23000	24.99	65.09	1000	12.00	65000	1	63.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

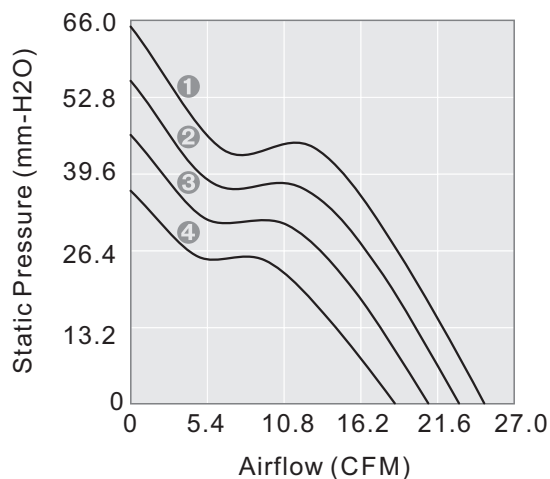
Bearing System Available

2B L S

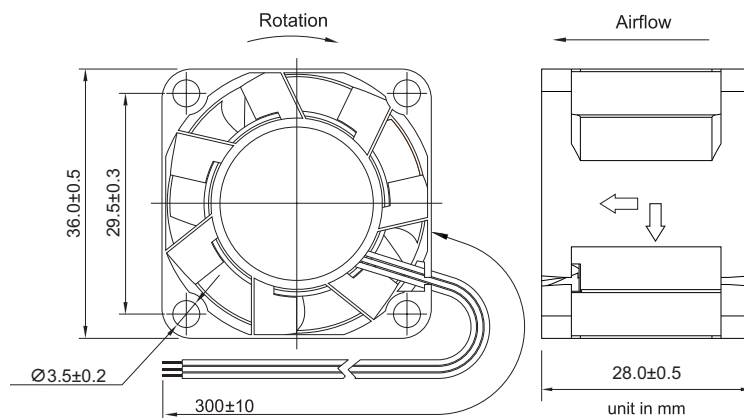
Function Available

N	A	I	F	R	Q	S	T	M	V	C	P	D	W	U
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PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department. Visit Y.S. TECH web site at <http://www.ystech.com.tw> for updated information. Customized Specifications are designed accordingly



38x38x28mm

- **Airflow: 13.73~20.86 CFM**
- **Static Pressure: 37.13~77.26 mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1061 #28 AWG**
- **Weight: 47.0 g**

[illegible]

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

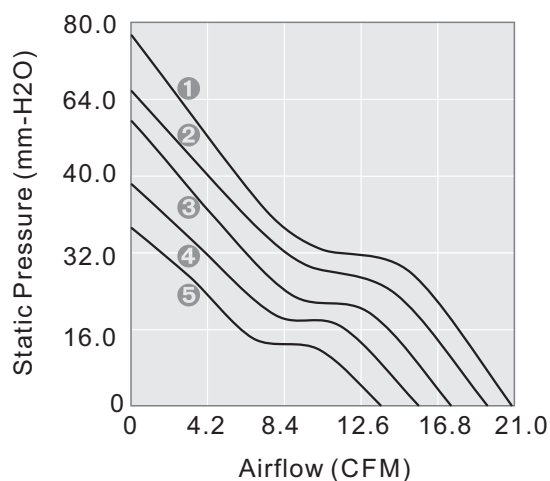
Bearing System Available

2B L S

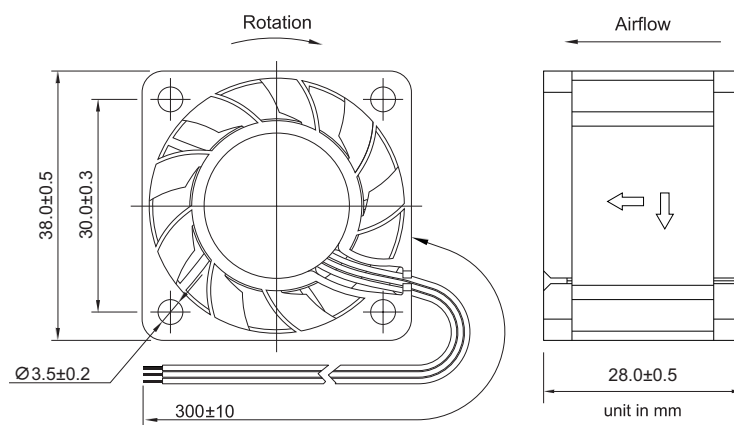
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

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38x38x48mm

- Airflow: 23.48~29.28 CFM
- Static Pressure: 53.9~79.1 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1061 #28 AWG
- Weight: 72.4 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD123848UB-P	2B	12	7~13.2	25000	29.28	79.1	830	9.96	60000	1	64.0
				15000			830	9.96			
FD123848EB-P	2B			23500	27.62	74.6	700	8.40	65000	2	62.5
				14500			700	8.40			
FD123848HB-P	2B			20000	23.48	53.9	450	5.40	65000	3	59.0
				12500			450	5.40			

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

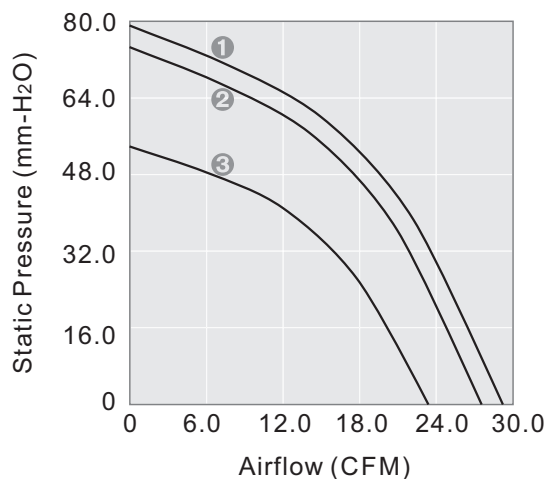
Bearing System Available

2B L S

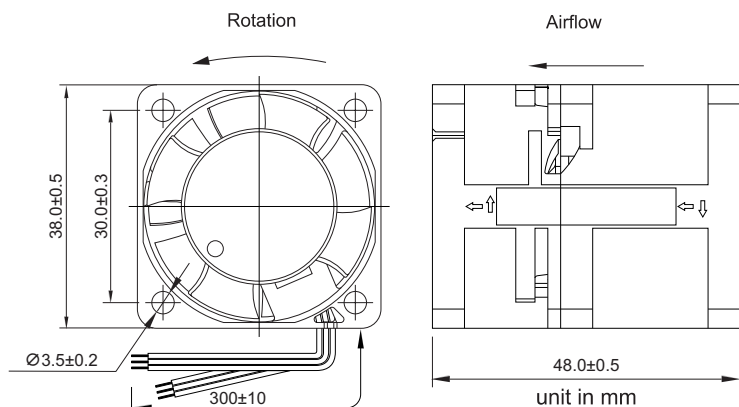
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x10mm

- Airflow: 4.5~9.2 CFM
- Static Pressure: 2.0~6.4 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 15 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD054010LB	2B	05	4~5.5	4500	4.5	2.0	90	0.45	80000	5	21.5
FD054010MB	2B		4~5.5	5500	5.6	2.9	130	0.65	80000	4	26.5
FD054010HB	2B		4~5.5	6500	6.6	4.1	170	0.85	75000	3	29.0
FD054010EB	2B		4~5.5	7500	8.1	5.4	250	1.25	65000	2	34.5
FD054010EB	2B		4~5.5	8000	8.5	6.1	300	1.50	65000	0	36.5
FD124010LB	2B	12	7~13.2	4500	4.5	2.0	45	0.54	80000	5	21.5
FD124010MB	2B		7~13.2	5500	5.3	2.9	65	0.78	80000	4	25.0
FD124010HB	2B		7~13.2	6500	6.6	4.1	75	0.90	75000	3	29.0
FD124010EB	2B		7~13.2	7500	8.1	5.4	100	1.20	65000	2	34.5
FD124010EB	2B		7~13.2	8500	9.2	6.4	120	1.44	65000	1	37.0
FD244010LB	2B	24	12~26.4	4500	4.5	2.0	50	1.20	80000	5	21.5
FD244010MB	2B		12~26.4	5500	5.3	2.9	60	1.44	80000	4	25.0
FD244010HB	2B		12~26.4	6500	6.6	4.1	70	1.68	75000	3	29.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

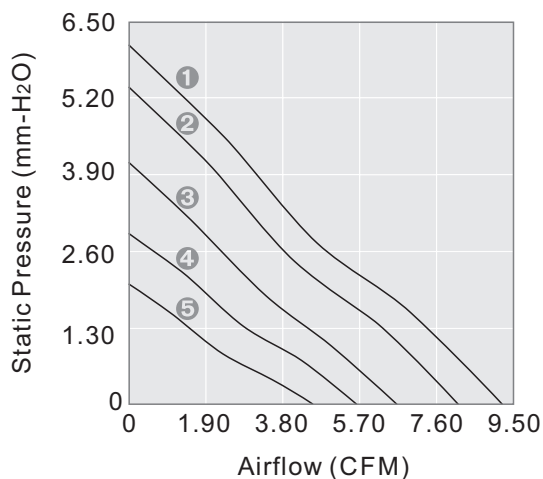
Bearing System Available

2B L S

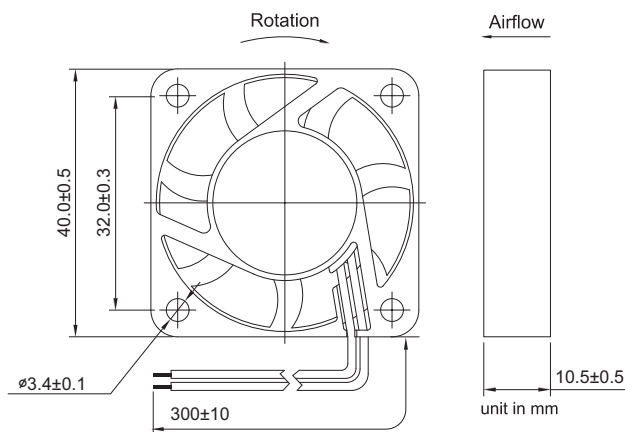
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x10mm

- Airflow: 5.08~8.71 CFM
- Static Pressure: 1.69~5.08 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 13.6 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD054010LL-N	L	05	4~5.5	5000	5.08	1.69	70	0.35	50000	4	17.5
FD054010ML-N	L		4~5.5	6000	6.09	2.64	120	0.60	50000	3	21.5
FD054010HL-N	L		4~5.5	7500	7.69	3.64	180	0.90	50000	2	25.0
FD124010LB-N	2B	12	8~13.2	5000	5.08	1.69	25	0.30	80000	4	17.5
FD124010MB-N	2B		8~13.2	6000	6.09	2.64	40	0.48	80000	3	21.5
FD124010HB-N	2B		7~13.2	7500	7.69	3.64	60	0.72	75000	2	25.0
FD124010EB-N	2B		7~13.2	8500	8.71	5.09	80	0.96	65000	1	28.0
FD124010LL-N	L		7~13.2	5000	5.08	1.69	30	0.42	50000	4	17.5
FD124010ML-N	L		7~13.2	6000	6.09	2.64	50	0.60	50000	3	21.5
FD124010HL-N	L		7~13.2	7500	7.69	3.64	75	0.90	50000	2	25.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

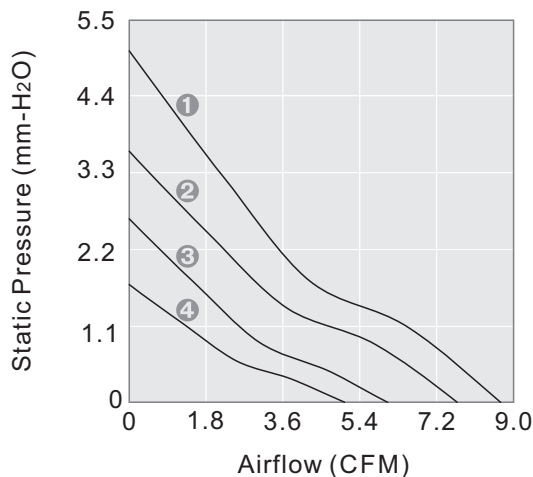
Bearing System Available

2B L S

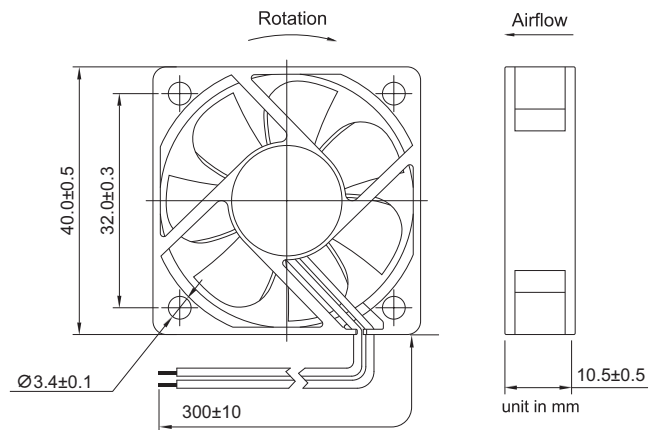
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x15mm

- Airflow: 5.6~14.6 CFM
- Static Pressure: 2.6~14.6 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 26 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD124015LB-N	2B	12	7~13.2	5000	5.6	2.6	90	1.08	80000	6	24.0
FD124015MB-N	2B		7~13.2	6000	6.6	3.5	100	1.20	80000	5	29.3
FD124015HB-N	2B		7~13.2	7000	8.2	5.1	130	1.56	75000	4	33.2
FD124015EB-N	2B		7~13.2	8300	9.4	7.1	190	2.28	65000	3	36.8
FD124015EB-N	2B		7~13.2	9500	11.2	9.1	240	2.88	65000	2	40.8
FD124015UB-N	2B		7~13.2	11000	14.6	14.6	280	3.36	65000	1	42.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

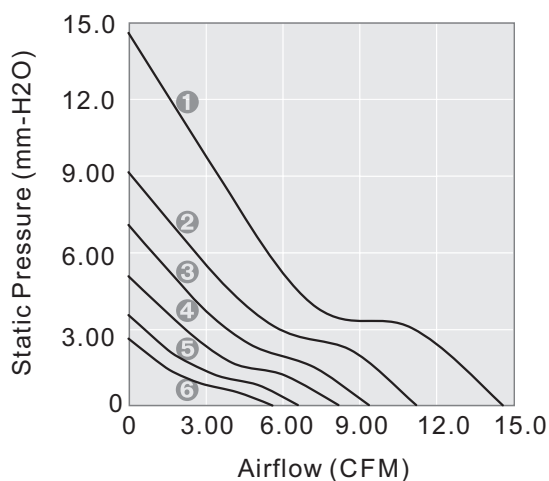
Bearing System Available

2B L S

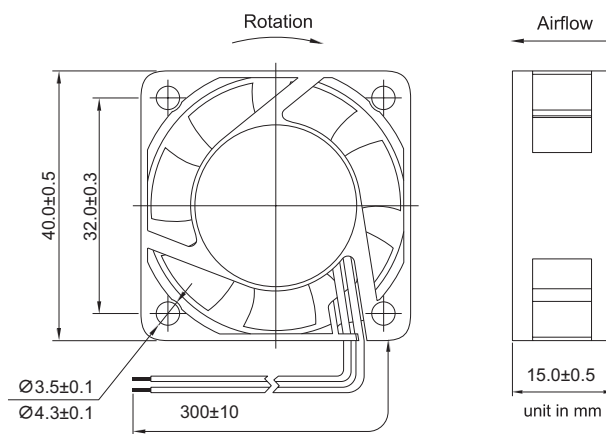
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x20mm

- Airflow: 5.7~12.0 CFM
- Static Pressure: 3.2~11.5 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 24 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD054020LL-H	L	05	4~5.5	5000	5.7	3.2	250	1.25	50000	5	20.0
FD054020ML-H	L		4~5.5	6300	7.2	5.2	350	1.75	80000	4	25.5
FD054020HL-H	L		4~5.5	7600	9.0	6.4	530	2.65	75000	3	29.5
FD124020LB-H	2B	12	7~13.2	5000	5.7	3.2	70	0.84	80000	5	20.0
FD124020MB-H	2B		7~13.2	6300	7.2	5.2	100	1.20	80000	4	25.5
FD124020HB-H	2B		7~13.2	7600	9.0	6.4	140	1.68	75000	3	29.5
FD124020EB-H	2B	24	7~13.2	8900	10.5	9.2	170	2.04	65000	2	33.5
FD124020UB-H	2B		7~13.2	10000	12.0	11.5	210	2.52	65000	1	37.5
FD244020LB-H	2B		12~26.4	5000	5.7	3.2	40	0.96	80000	5	20.0
FD244020MB-H	2B	24	12~26.4	6300	7.2	5.2	50	1.20	80000	4	25.5
FD244020HB-H	2B		12~26.4	7600	9.0	6.4	70	1.68	75000	3	29.5
FD244020EB-H	2B		12~26.4	8900	10.5	9.2	100	2.40	65000	2	33.5
FD244020UB-H	2B		12~26.4	10000	12.0	11.5	130	3.12	65000	1	37.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

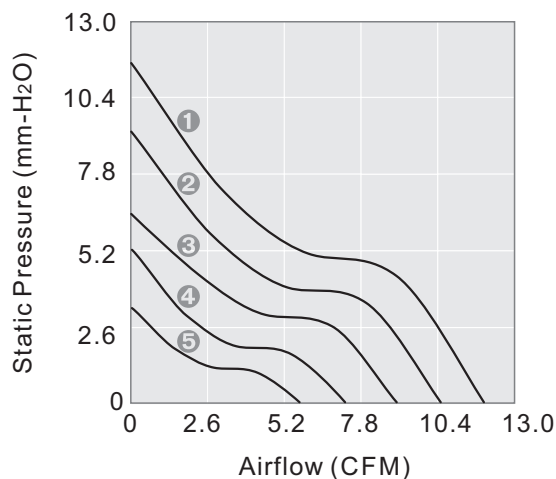
Bearing System Available

2B L S

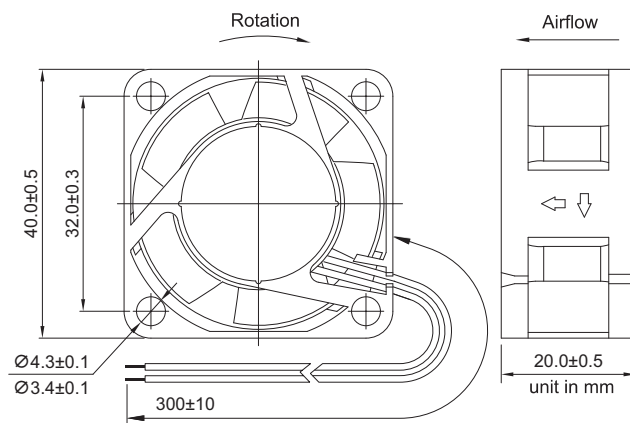
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x20mm

- Airflow: 5.42~11.36 CFM
- Static Pressure: 2.21~10.12 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1061 #26 AWG
- Weight: 26.9 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD054020LL-N	L	05	4~5.5	4500	6.08	2.81	60	0.30	50000	4	<17.0
FD054020ML-N	L		4~5.5	6000	8.06	5.02	100	0.50	50000	3	22.0
FD054020HL-N	L		4~5.5	7500	10.04	7.87	170	0.85	50000	2	26.5
FD054020EB-N	2B		4~5.5	8500	11.36	10.12	210	1.05	65000	1	29.5
FD124020LL-N	L	12	7~13.2	4000	5.42	2.21	30	0.36	50000	5	<17.0
FD124020LL-N	L		7~13.2	4500	6.08	2.81	40	0.48	50000	4	<17.0
FD124020ML-N	L		7~13.2	6000	8.06	5.02	60	0.72	50000	3	22.0
FD124020HL-N	L		7~13.2	7500	10.04	7.87	110	1.32	50000	2	26.5
FD124020EB-N	2B		7~13.2	8500	11.36	10.12	140	1.68	65000	1	29.5
FD244020LL-N	L	24	15~26.4	4500	6.08	2.81	30	0.72	50000	4	<17.0
FD244020ML-N	L		12~26.4	6000	8.06	5.02	45	1.08	50000	3	22.0
FD244020HL-N	L		12~26.4	7500	10.04	7.87	60	1.44	50000	2	26.5
FD244020EB-N	2B		12~26.4	8500	11.36	10.12	85	2.04	65000	1	29.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

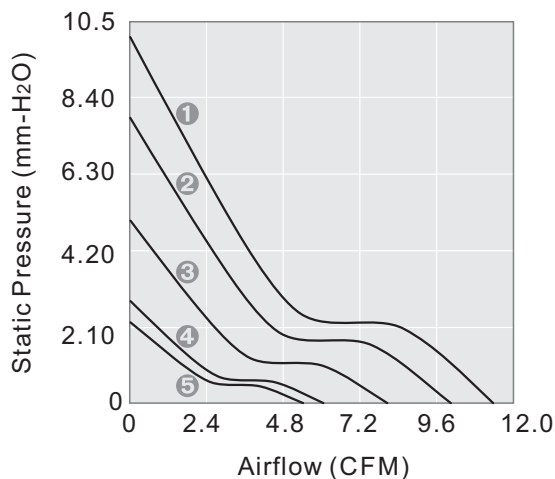
Bearing System Available

2B L S

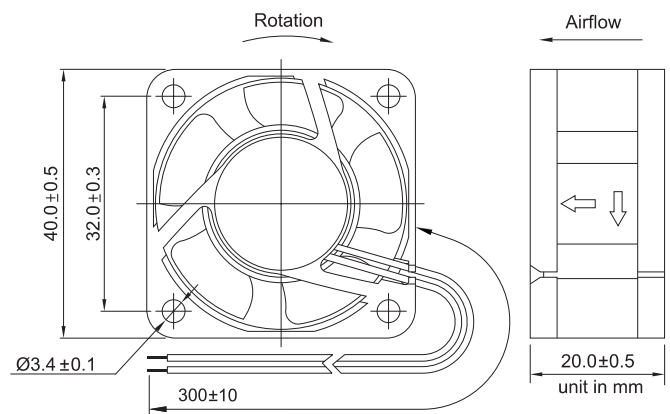
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x28mm

- Airflow: 23.61~33.68 CFM
- Static Pressure: 44.66~62.52 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1061 #28 AWG
- Weight: 48.1 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD124028MB-E	2B	VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD124028HB-E	2B	12	7~13.2	17000	23.61	44.66	600	7.20	80000	4	52.5
FD124028EB-E	2B		7~13.2	19000	26.26	50.78	900	10.80	75000	3	56.0
FD124028EB-E	2B		7~13.2	21000	29.57	56.02	1200	14.40	65000	2	58.0
FD124028EB-E	2B		7~13.2	23500	33.68	62.52	1800	21.60	65000	1	61.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

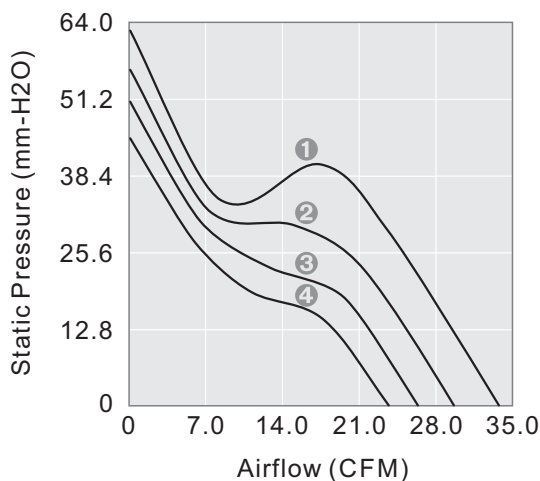
Bearing System Available

2B L S

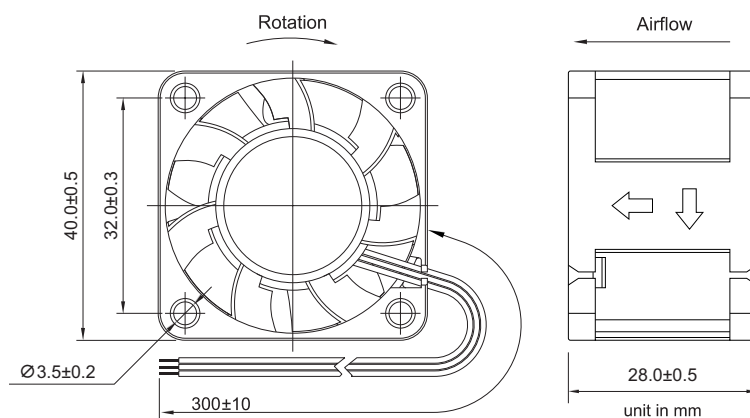
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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45x45x10mm

- Airflow: 8.0~10.3 CFM
- Static Pressure: 2.5~4.8 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 17 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD054510LS	S	05	4~5.5	4900	7.6	2.5	150	0.75	30000	3	28.5
FD054510MS	S		4~5.5	5300	8.5	3.0	170	0.85	30000	2	30.5
FD054510HS	S		4~5.5	6300	10.0	4.0	240	1.20	25000	1	35.5
FD054510LB	2B		4~5.5	5100	8.49	3.1	150	0.75	80000	3	29.0
FD054510MB	2B		4~5.5	5500	8.7	3.4	170	0.85	80000	2	31.5
FD054510HB	2B	12	4~5.5	6500	10.3	4.8	240	1.20	75000	1	37.0
FD124510LS	S		7~13.2	4900	7.6	2.5	90	1.08	30000	3	28.5
FD124510MS	S		7~13.2	5300	8.5	3.0	120	1.44	30000	2	30.5
FD124510HS	S		7~13.2	6300	10.0	4.0	140	1.68	25000	1	35.5
FD124510LB	2B		7~13.2	5100	8.49	3.1	90	1.08	80000	3	29.0
FD124510MB	2B		7~13.2	5500	8.7	3.4	120	1.44	80000	2	31.5
FD124510HB	2B		7~13.2	6500	10.3	4.8	140	1.68	75000	1	37.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

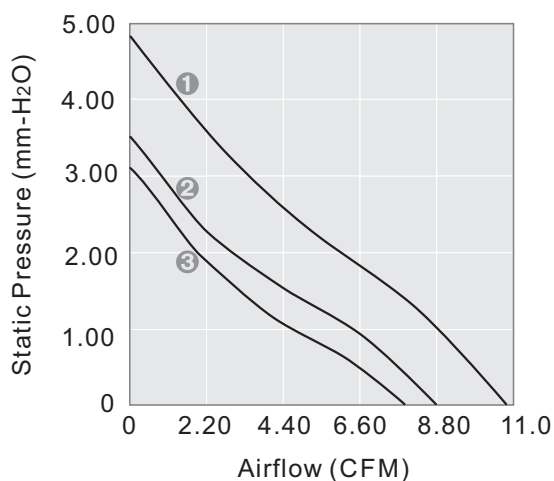
Bearing System Available

2B L S

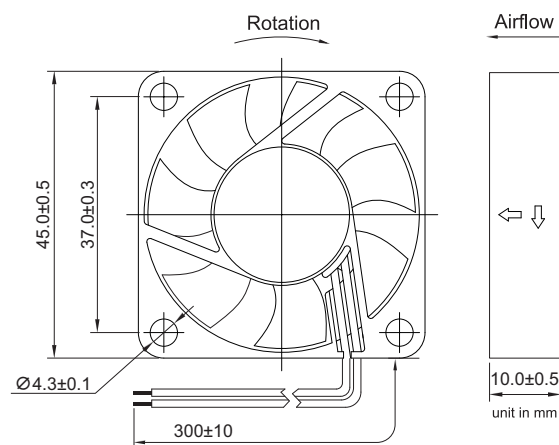
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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50x50x10mm

- Airflow: 8.3~13.5 CFM
- Static Pressure: 1.0~3.2 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 18 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD055010LL-N	L	05	4.5~5.5	3500	8.3	1.0	85	0.43	50000	3	21.8
FD055010ML-N	L		4.5~5.5	4500	10.9	2.0	140	0.70	50000	2	27.3
FD055010HL-N	L		4.5~5.5	5500	13.5	3.2	240	1.20	50000	1	31.7
FD125010LB-N	2B	12	7~13.2	3500	8.3	1.0	60	0.72	80000	3	21.8
FD125010MB-N	2B		7~13.2	4500	10.9	2.0	90	1.08	80000	2	27.3
FD125010HB-N	2B		7~13.2	5500	13.5	3.2	125	1.50	75000	1	31.7
FD125010LL-N	L	12	7~13.2	3500	8.3	1.0	60	0.72	50000	3	21.8
FD125010ML-N	L		7~13.2	4500	10.9	2.0	100	1.20	50000	2	27.3
FD125010HL-N	L		7~13.2	5500	13.5	3.2	180	2.16	50000	1	31.7
FD125010LS-N	S	12	7~13.2	3500	8.3	1.0	60	0.72	30000	3	21.8
FD125010MS-N	S		7~13.2	4500	10.9	2.0	90	1.08	30000	2	27.3
FD125010HS-N	S		7~13.2	5500	13.5	3.2	125	1.50	25000	1	31.7

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

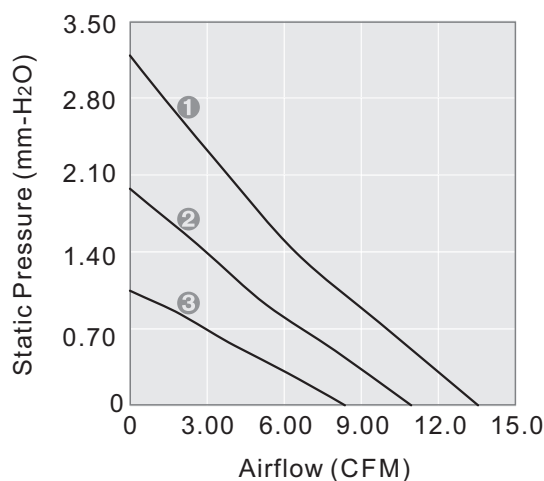
Bearing System Available

2B L S

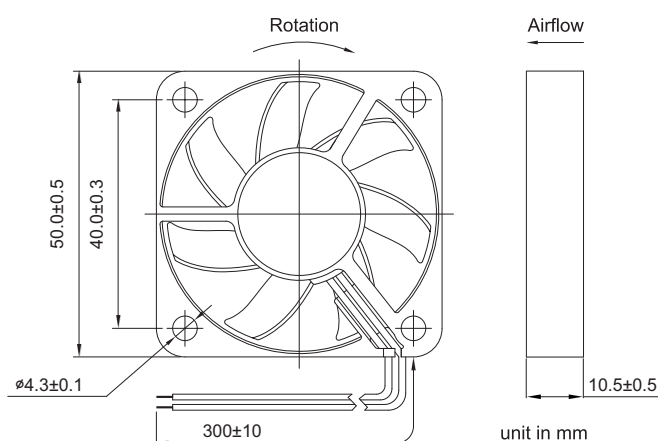
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

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50x50x15mm

- Airflow: 12.0~17.1 CFM
- Static Pressure: 2.0~4.4 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 27 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD055015LB	2B	05	4~5.5	3800	12.0	2.0	180	0.90	80000	4	24.5
FD055015MB	2B		4~5.5	4500	13.1	3.2	250	1.25	80000	3	29.5
FD055015HB	2B		4~5.5	5000	15.5	3.6	285	1.43	75000	2	31.5
FD125015LB	2B	12	7~13.2	3800	12.0	2.0	85	1.02	80000	4	24.5
FD125015MB	2B		7~13.2	4500	13.1	3.2	130	1.56	80000	3	30.0
FD125015HB	2B		7~13.2	5000	15.5	3.6	170	2.04	75000	2	31.5
FD125015EB	2B	24	7~13.2	5500	17.1	4.4	220	2.64	65000	1	36.5
FD245015LB	2B		12~26.4	3800	12.0	2.0	70	1.68	80000	4	24.5
FD245015MB	2B		12~26.4	4500	13.1	3.2	80	1.92	80000	3	30.0
FD245015HB	2B		12~26.4	5000	15.5	3.6	90	2.16	75000	2	31.5
FD245015EB	2B		12~26.4	5500	17.1	4.4	110	2.64	65000	1	36.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

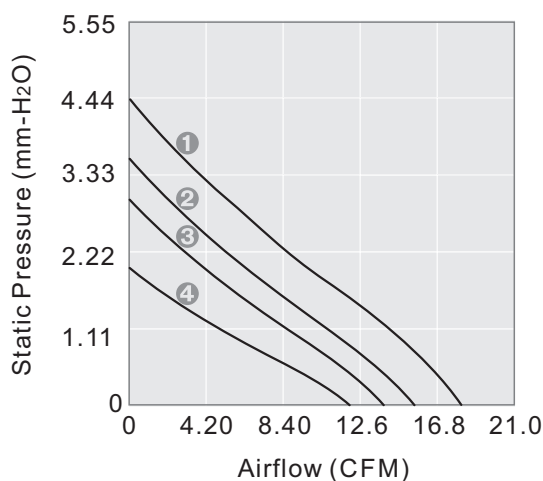
Bearing System Available

2B L S

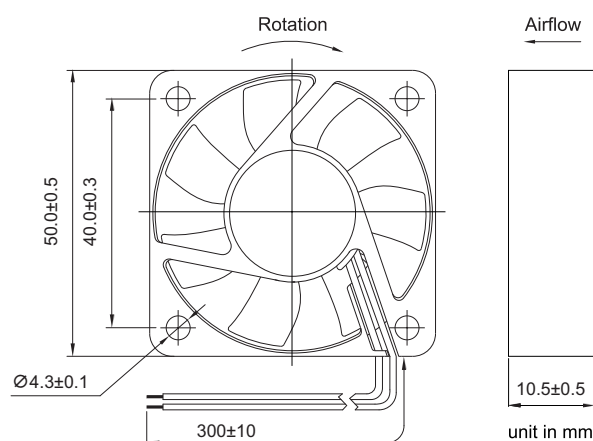
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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50x50x15mm

- **Airflow: 11.0 CFM**
- **Static Pressure: 3.6 mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1569 #26 AWG**
- **Weight: 30.5 g**

[illegible]

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

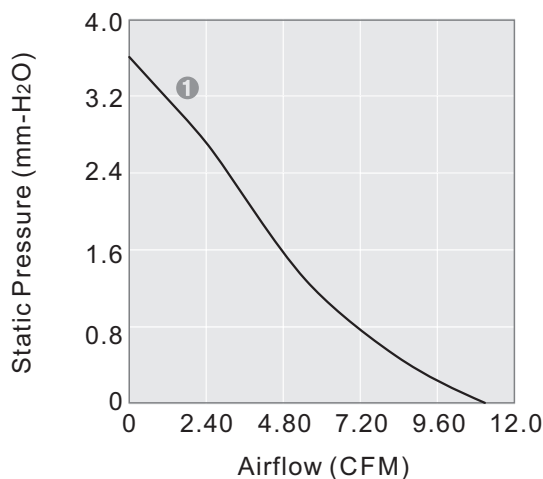
Bearing System Available

2B L S

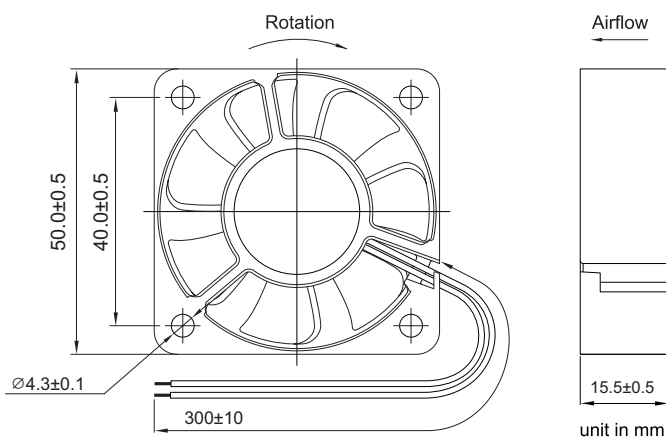
Function Available

N	A	I	F	R	Q	S	T	M	V	C	P	D	W	U
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PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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50x50x20mm

- Airflow: 8.9~14.0 CFM
- Static Pressure: 2.1~5.5 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 36.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD125020LS	S	12	7~13.2	3500	8.9	2.1	60	0.72	30000	3	22.5
FD125020MS	S		7~13.2	4300	11.0	4.0	90	1.08	30000	2	25.0
FD125020HS	S		7~13.2	5300	13.2	4.7	110	1.32	25000	1	30.0
FD125020LL	L		7~13.2	3500	8.9	2.1	75	0.90	50000	3	22.5
FD125020ML	L		7~13.2	4300	11.0	4.0	100	1.20	50000	2	25.0
FD125020HL	L		7~13.2	5300	13.2	4.7	130	1.56	50000	1	30.0
FD125020LB	2B		7~13.2	3900	10.0	2.5	60	0.72	80000	3	23.5
FD125020MB	2B		7~13.2	4800	12.2	4.0	90	1.08	80000	2	28.0
FD125020HB	2B		7~13.2	5600	14.0	5.5	110	1.32	75000	1	32.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

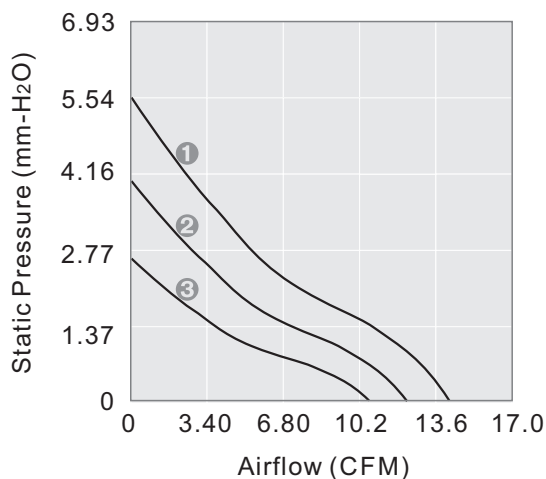
Bearing System Available

2B L S

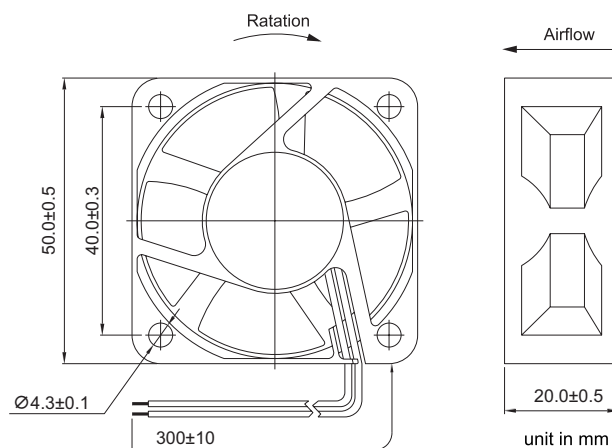
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x10mm

- Airflow: 17.3~23.3 CFM
- Static Pressure: 2.1~4.0 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 26.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD056010LB	2B	05	4~5.5	3800	17.3	2.1	260	1.30	80000	3	33.0
FD126010LB	2B		7~13.2	3800	17.3	2.1	140	1.68	80000	3	33.0
FD126010MB	2B		7~13.2	4500	21.0	3.0	170	2.04	80000	2	38.0
FD126010HB	2B		7~13.2	5200	23.3	4.0	240	2.88	75000	1	41.0
FD126010HL	L	12	7~13.2	5200	23.3	4.0	175	2.10	50000	1	41.0
FD126010LS	S		7~13.2	3800	17.3	2.1	140	1.68	30000	3	37.5
FD126010MS	S		7~13.2	4500	21.0	3.0	170	2.04	30000	2	38.0
FD126010HS	S		7~13.2	5200	23.3	4.0	240	2.88	25000	1	41.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

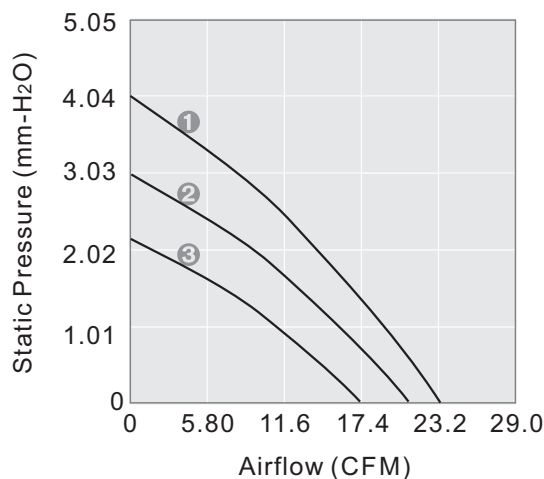
Bearing System Available

2B L S

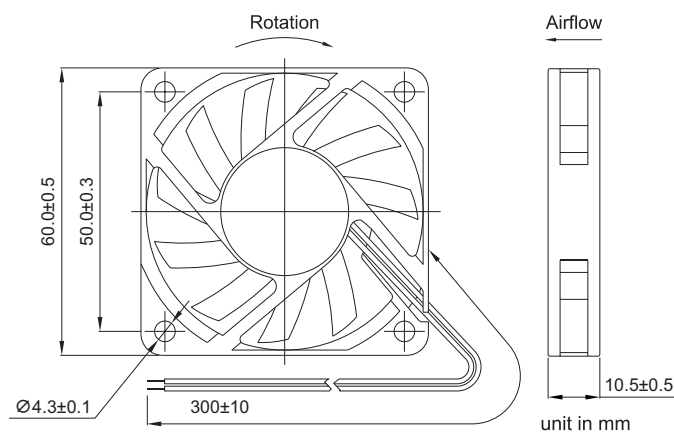
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x15mm

- Airflow: 15.1~30.4 CFM
- Static Pressure: 2.0~6.9 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 26.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD056015LS	S	05	4~5.5	3000	14.3	1.7	110	0.55	30000	5	24.0
FD056015MS	S		4~5.5	3900	19.8	3.7	210	1.05	30000	4	33.5
FD056015HS	S		4~5.5	4700	23.9	4.5	320	1.60	25000	3	38.0
FD126015LB	2B	12	7~13.2	3200	15.2	2.0	100	1.20	80000	5	25.0
FD126015MB	2B		7~13.2	4000	20.3	3.9	160	1.92	80000	4	34.0
FD126015HB	2B		7~13.2	4700	23.9	4.5	220	2.64	75000	3	38.0
FD126015EB	2B		7~13.2	5200	26.4	5.0	270	3.24	65000	2	40.0
FD126015EB	2B		7~13.2	6000	30.4	6.9	400	4.80	65000	1	43.0
FD126015LS	S		7~13.2	3000	14.3	1.7	80	0.96	30000	5	24.0
FD126015MS	S	24	7~13.2	3800	19.3	3.5	140	1.68	30000	4	33.0
FD126015HS	S		7~13.2	4700	23.9	4.5	220	2.64	25000	3	38.0
FD126015ES	S		7~13.2	5000	25.4	4.6	250	3.00	20000	2	39.0
FD246015LB	2B		12~26.4	3200	15.2	2.0	70	1.68	80000	5	25.0
FD246015MB	2B		12~26.4	4000	20.3	3.9	110	2.64	80000	4	34.0
FD246015HB	2B		12~26.4	4700	23.9	4.5	145	3.48	75000	3	38.0
FD246015EB	2B	24	12~26.4	5200	26.4	5.0	180	4.32	65000	2	40.0
FD246015LS	S		12~26.4	3000	14.3	1.7	90	2.16	30000	5	24.0
FD246015MS	S		12~26.4	3800	19.3	3.5	110	2.64	30000	4	32.8
FD246015HS	S		12~26.4	4500	23.6	3.9	120	2.88	25000	3	34.8
FD246015ES	S		12~26.4	5000	25.4	4.6	180	4.32	20000	2	39.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

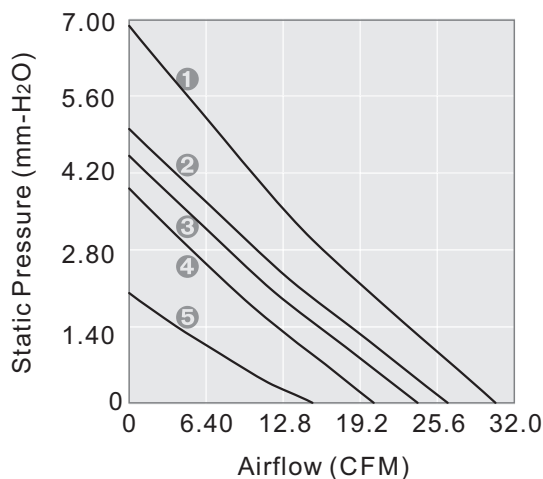
Voltage Available

Bearing System Available

05 12 24 48

2B L S

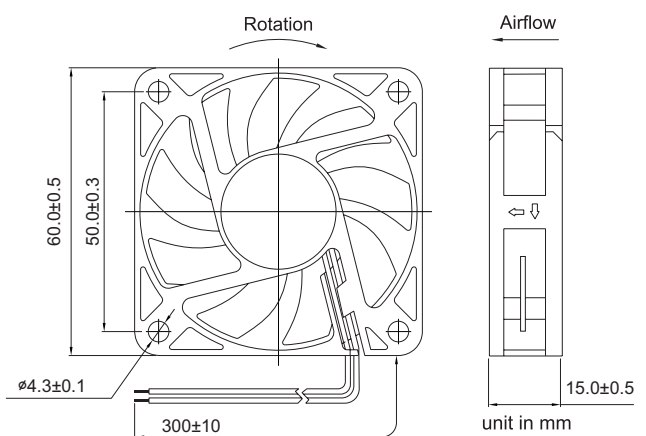
PERFORMANCE P-Q CURVE



Function Available

N A I F R Q S T M V C P D W U

OUTLINE DIMENSIONS



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60x60x15mm

- Airflow: 14.1~27.0 CFM
- Static Pressure: 2.0~6.5 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 33.5 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD056015LL-N	L	05	4~5.5	3300	14.1	2.0	130	0.65	50000	5	22.0
FD056015ML-N	L		4~5.5	4100	18.0	3.0	200	1.00	50000	4	28.4
FD056015HL-N	L		4~5.5	4800	20.9	3.9	360	1.80	50000	3	33.0
FD126015LB-N	2B	12	7~13.2	3300	14.1	2.0	55	0.66	80000	5	22.0
FD126015MB-N	2B		7~13.2	4100	18.0	3.0	100	1.20	80000	4	28.4
FD126015HB-N	2B		7~13.2	4800	20.9	3.9	130	1.56	75000	3	33.0
FD126015EB-N	2B		7~13.2	5300	23.5	5.0	150	1.80	65000	2	35.0
FD126015EB-N	2B		7~13.2	6100	27.0	6.5	230	2.76	65000	1	38.0
FD126015LL-N	L		7~13.2	3300	14.1	2.0	70	0.84	50000	5	22.0
FD126015ML-N	L		7~13.2	4100	18.0	3.0	100	1.20	50000	4	28.4
FD126015HL-N	L		7~13.2	4800	20.9	3.9	130	1.56	50000	3	33.0
FD126015EL-N	L		7~13.2	5300	23.5	5.0	150	1.80	50000	2	35.0
FD246015LB-N	2B	24	12~26.4	3300	14.1	2.0	25	0.60	80000	5	22.0
FD246015MB-N	2B		12~26.4	4100	18.0	3.0	40	0.96	80000	4	28.4
FD246015HB-N	2B		12~26.4	4800	20.9	3.9	55	1.32	75000	3	33.0
FD246015EB-N	2B		12~26.4	5300	23.5	5.0	70	1.68	65000	2	35.0
FD246015LL-N	L		12~26.4	3300	14.1	2.0	25	0.60	50000	5	22.0
FD246015ML-N	L		12~26.4	4100	18.0	3.0	40	0.96	50000	4	28.4
FD246015HL-N	L		12~26.4	4800	20.9	3.9	55	1.32	50000	3	33.0
FD246015EL-N	L		12~26.4	5300	23.5	5.0	70	1.68	50000	2	35.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

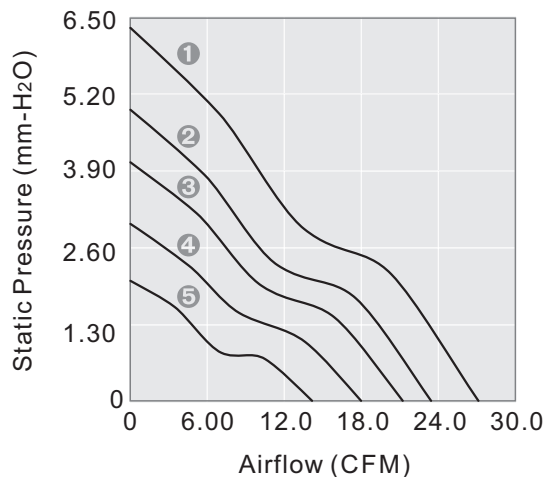
Bearing System Available

2B L S

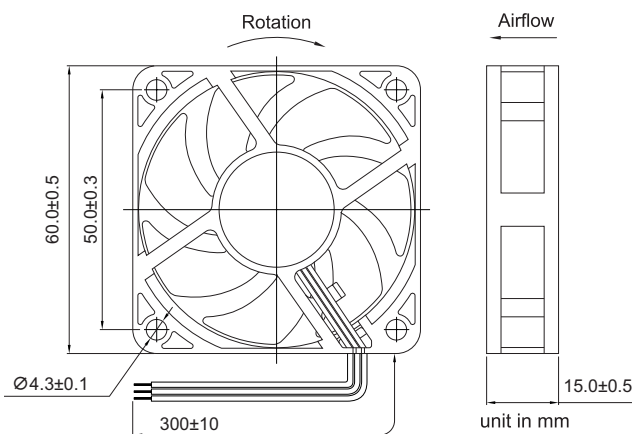
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x20mm

- Airflow: 17.0~29.1 CFM
- Static Pressure: 2.4~7.0 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 44.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD126020LB	2B	12	7~13.2	3000	17.0	2.4	80	0.96	80000	4	26.0
FD126020MB	2B		7~13.2	3600	20.0	3.4	110	1.32	80000	3	30.0
FD126020HB	2B		7~13.2	4200	22.9	4.4	160	1.92	75000	2	35.0
FD126020EB	2B		7~13.2	5300	29.1	7.0	280	3.36	65000	1	41.0
FD126020LS	S		7~13.2	2800	15.2	2.0	80	0.96	30000	4	25.0
FD126020MS	S		7~13.2	3400	18.0	2.7	110	1.32	30000	3	28.0
FD126020HS	S		7~13.2	4000	21.8	4.0	160	1.92	25000	2	35.0
FD126020ES	S		7~13.2	5300	29.2	7.0	250	3.00	25000	1	41.0
FD246020LB	2B	24	12~26.4	3000	17.0	2.4	40	0.96	80000	4	26.0
FD246020MB	2B		12~26.4	3600	20.0	3.4	70	1.68	80000	3	30.0
FD246020HB	2B		12~26.4	4200	22.9	4.4	80	1.92	75000	2	35.0
FD246020MS	S		12~26.4	3400	18.0	2.7	70	1.68	30000	3	28.0
FD246020HS	S		12~26.4	4000	21.8	4.0	80	1.92	25000	2	35.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

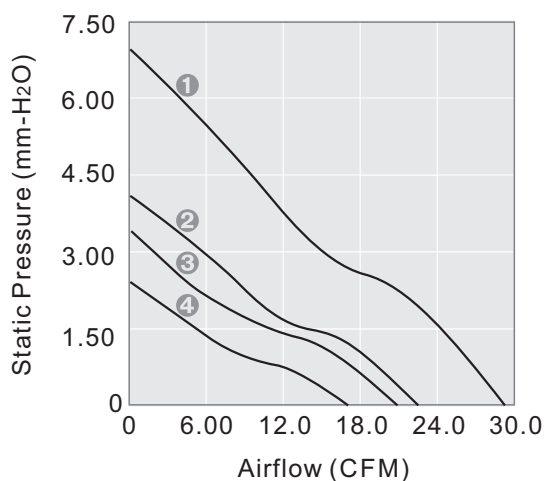
Bearing System Available

2B L S

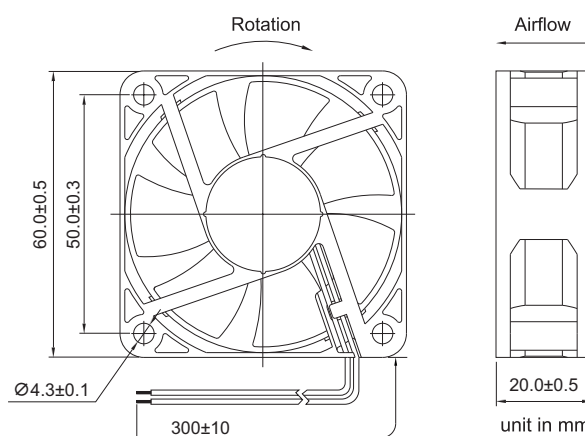
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x25mm

- Airflow: 15.8~40.1 CFM
- Static Pressure: 2.4~14.2 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 56 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD126025LB	2B	12	7~13.2	2800	15.8	2.4	80	0.96	80000	5	23.5
FD126025MB	2B		7~13.2	3700	20.0	3.8	120	1.44	80000	4	29.5
FD126025HB	2B		7~13.2	4300	25.4	5.5	150	1.80	75000	3	34.0
FD126025EB	2B		7~13.2	5200	29.3	6.3	210	2.52	65000	2	40.5
FD126025EB	2B		7~13.2	6800	40.1	14.2	330	3.96	65000	1	48.0
FD246025LB	2B	24	12~26.4	2800	15.8	2.4	50	1.20	80000	5	23.5
FD246025MB	2B		12~26.4	3700	20.0	3.8	70	1.68	80000	4	29.5
FD246025HB	2B		12~26.4	4300	25.4	5.5	90	2.16	75000	3	34.0
FD246025EB	2B		12~26.4	5200	29.3	6.3	110	2.64	65000	2	40.5
FD246025EB	2B		12~26.4	6800	40.1	14.2	210	5.04	65000	1	48.0
FD486025LB	2B	48	24~56.0	2800	15.8	2.4	30	1.44	80000	5	23.5
FD486025MB	2B		24~56.0	3700	20.0	3.8	45	2.16	80000	4	29.5
FD486025HB	2B		24~56.0	4300	25.4	5.5	50	2.40	75000	3	34.0
FD486025EB	2B		24~56.0	5200	29.3	6.3	80	3.84	65000	2	40.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

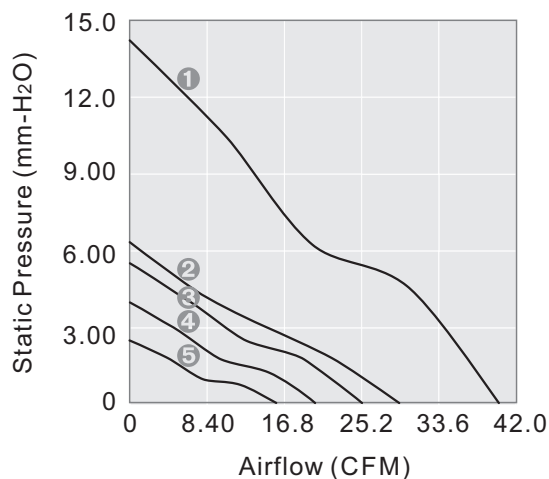
Bearing System Available

2B L S

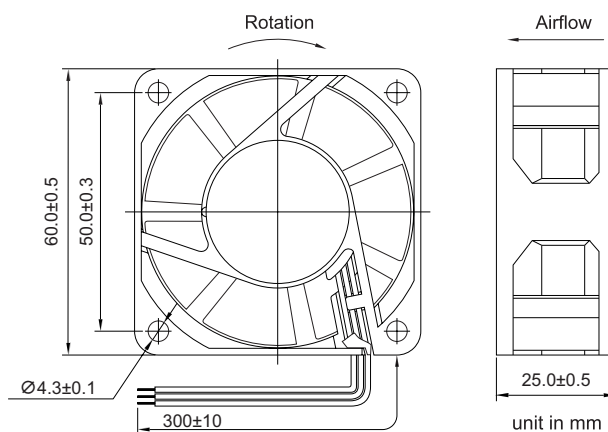
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

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60x60x25mm

- Airflow: 14.4~50.2 CFM
- Static Pressure: 5.0~27.6 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 56 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD126025LB-W	2B		7~13.2	3000	14.4	5.0	50	0.60	80000	9	25.0
FD126025MB-W	2B		7~13.2	4100	19.7	7.5	80	0.96	80000	8	31.0
FD126025HB-W	2B		7~13.2	5100	24.5	9.3	120	1.44	75000	7	36.0
FD126025EB-W	2B		7~13.2	5600	26.9	10.2	150	1.80	65000	6	38.1
FD126025UB-W	2B	12	7~13.2	6500	31.2	11.8	190	2.28	65000	5	41.0
FD126025UB-W	2B		7~13.2	7500	35.9	13.2	300	3.60	65000	4	44.5
FD126025UB-W	2B		7~13.2	8500	40.6	17.4	420	5.04	65000	3	47.0
FD126025UB-W	2B		7~13.2	9500	45.4	22.2	630	7.56	65000	2	49.5
FD126025UB-W	2B		7~13.2	10500	50.2	27.6	900	10.80	65000	1	51.5
FD246025LB-W	2B		12~26.4	3000	14.4	5.0	35	0.84	80000	9	25.0
FD246025MB-W	2B		12~26.4	4100	19.7	7.5	55	1.32	80000	8	31.0
FD246025HB-W	2B	24	12~26.4	5100	24.5	9.3	75	1.80	75000	7	36.0
FD246025EB-W	2B		12~26.4	6500	31.2	11.8	110	2.64	65000	5	41.0
FD246025UB-W	2B		12~26.4	10500	50.2	27.6	410	9.84	65000	1	51.5
FD486025LB-W	2B		24~56.0	3000	14.4	5.0	30	1.44	80000	9	25.0
FD486025MB-W	2B		24~56.0	4100	19.7	7.5	40	1.92	80000	8	31.0
FD486025HB-W	2B	48	24~56.0	5100	24.5	9.3	55	2.64	75000	7	36.0
FD486025EB-W	2B		24~56.0	6800	32.7	12.4	80	3.84	65000	5	42.0
FD486025UB-W	2B		24~56.0	10500	50.2	27.6	240	11.52	65000	1	51.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

Bearing System Available

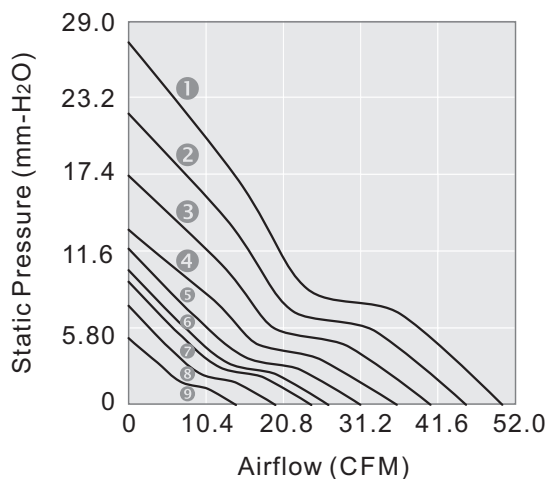
05 12 24 48

2B L S

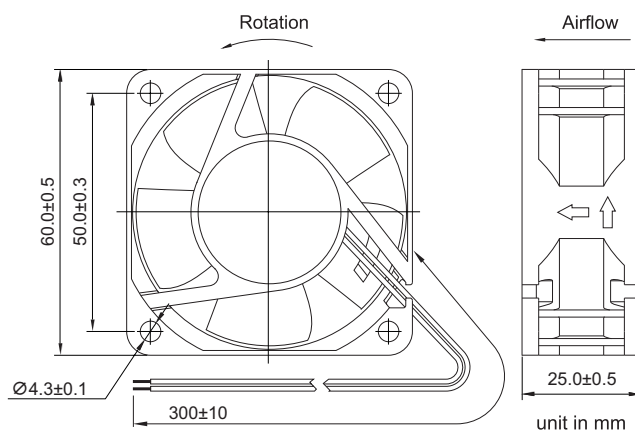
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x38mm

- Airflow: 26.7~45.5 CFM
- Static Pressure: 8.1~22.9 mm-H₂O
- Blade / Housing: Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 115.6 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD126038LB-P	2B	12	7~13.2	4500	26.7	8.1	190	2.28	80000	4	41.0
FD126038MB-P	2B		7~13.2	5500	32.6	12.2	260	3.12	80000	3	47.0
FD126038HB-P	2B		7~13.2	6500	38.5	16.5	450	5.40	75000	2	51.0
FD126038EB-P	2B		7~13.2	7500	45.5	22.9	720	8.64	65000	1	55.0
FD246038LB-P	2B	24	12~26.4	4500	26.7	8.1	110	2.64	80000	4	41.0
FD246038MB-P	2B		12~26.4	5500	32.6	12.2	170	4.08	80000	3	47.0
FD246038HB-P	2B		12~26.4	6500	38.5	16.5	250	6.00	75000	2	51.0
FD246038EB-P	2B		12~26.4	7500	45.5	22.9	360	8.64	65000	1	55.0
FD486038LB-P	2B	48	24~56.0	4500	26.7	8.1	70	3.36	80000	4	41.0
FD486038MB-P	2B		24~56.0	5500	32.6	12.2	90	4.32	80000	3	47.0
FD486038HB-P	2B		24~56.0	6500	38.5	16.5	130	6.24	75000	2	51.0
FD486038EB-P	2B		24~56.0	7500	45.5	22.9	190	9.12	65000	1	55.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

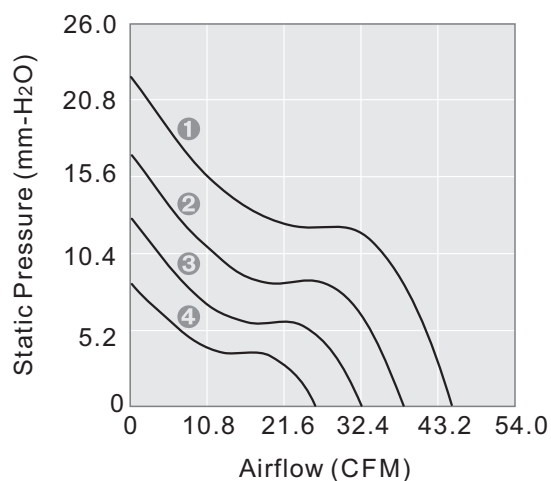
Bearing System Available

2B L S

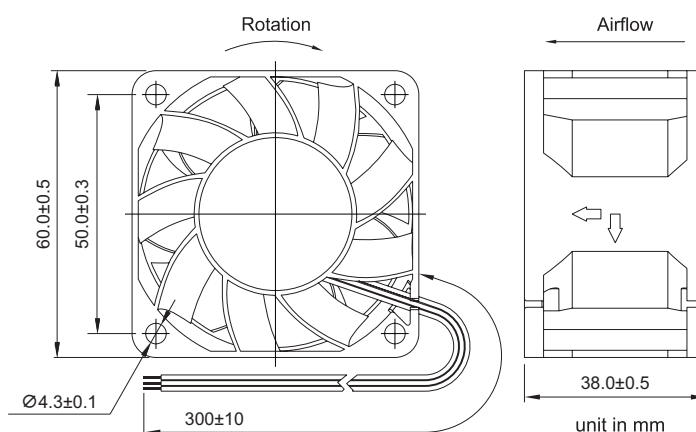
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x15mm

- Airflow: 23.5~50.2 CFM
- Static Pressure: 1.4~5.8 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 50.0 g

DC AXIAL FAN

DC BLOWER

XTREME SERIES

AC AXIAL FAN

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128015LB	2B		7~13.2	2100	23.5	1.4	70	0.84	80000	5	19.0
FD128015MB	2B		7~13.2	2600	29.1	1.9	100	1.20	80000	4	27.0
FD128015HB	2B		7~13.2	3200	35.8	2.7	190	2.28	75000	3	33.0
FD128015EB	2B		7~13.2	3900	43.6	4.3	250	3.00	65000	2	38.5
FD128015EB	2B	12	7~13.2	4500	50.2	5.8	380	4.56	65000	1	42.0
FD128015LL	L		7~13.2	2100	23.5	1.4	90	1.08	50000	5	19.0
FD128015ML	L		7~13.2	2600	29.1	1.9	140	1.68	50000	4	27.0
FD128015HL	L		7~13.2	3200	35.8	2.7	250	3.00	50000	3	30.5
FD128015EL	L		7~13.2	3900	43.6	4.3	330	3.96	50000	2	35.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

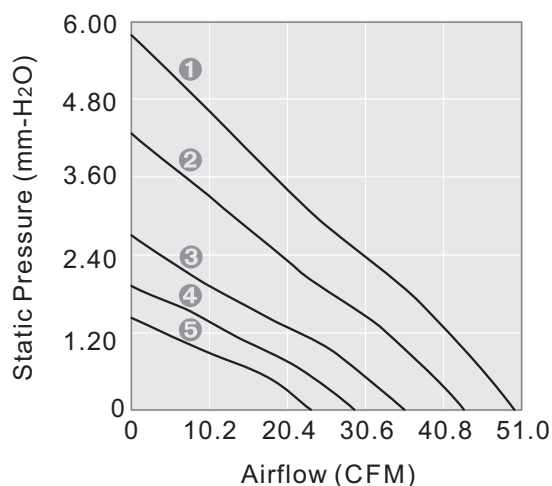
Bearing System Available

2B L S

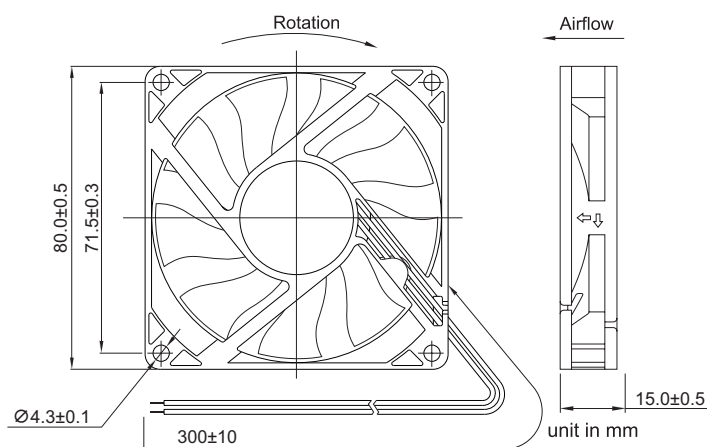
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x20mm

- Airflow: 22.7~45.2 CFM
- Static Pressure: 1.3~4.4 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 85.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD128020LB	2B	VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128020MB	2B		7~13.2	2100	23.3	1.4	100	1.20	80000	4	22.9
FD128020HB	2B		7~13.2	2600	31.0	2.2	110	1.32	80000	3	27.0
FD128020EB	2B		7~13.2	3100	36.9	3.2	150	1.80	75000	2	33.5
FD128020LL	L	12	7~13.2	3600	45.2	4.4	200	2.40	65000	1	38.0
FD128020LL	L		7~13.2	1900	22.8	1.3	50	0.60	50000	4	22.5
FD128020ML	L		7~13.2	2400	28.9	1.9	80	0.96	50000	3	25.0
FD128020HL	L		7~13.2	2900	34.5	2.7	130	1.56	50000	2	29.1
FD128020LS	S	24	7~13.2	1900	22.7	1.3	60	0.72	30000	4	22.5
FD128020MS	S		7~13.2	2400	28.9	1.9	90	1.08	30000	3	25.0
FD128020HS	S		7~13.2	2900	34.5	2.7	130	1.56	25000	2	29.5
FD248020LB	2B		12~26.4	2100	23.3	1.4	50	1.20	80000	4	22.9
FD248020MB	2B		12~26.4	2600	31.0	2.2	66	1.58	80000	3	27.0
FD248020HB	2B		12~26.4	3100	36.9	3.2	100	2.40	75000	2	33.5
FD248020MS	S		12~26.4	2400	28.9	1.9	70	1.68	30000	3	25.0
FD248020HS	S		12~26.4	2900	34.5	2.7	100	2.40	25000	2	29.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

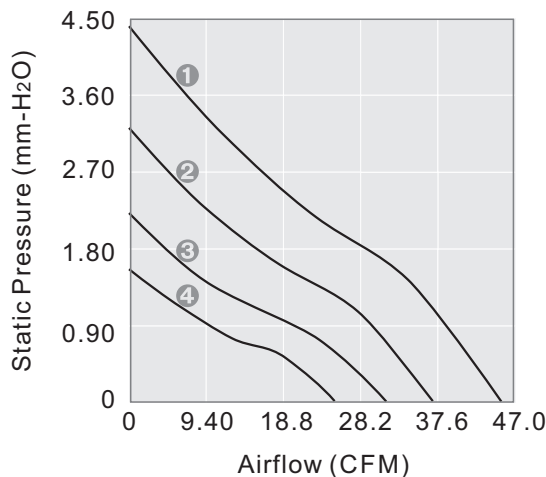
Bearing System Available

2B L S

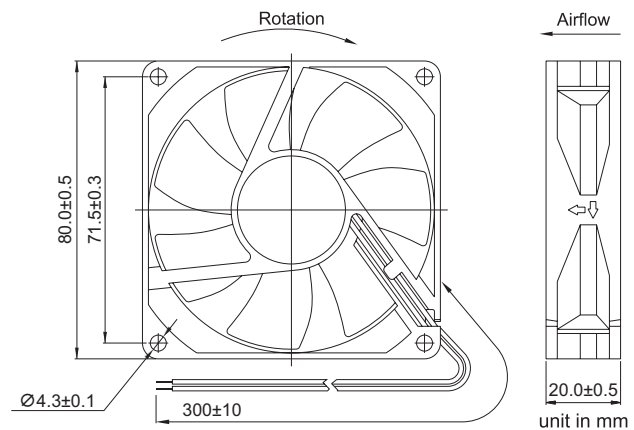
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x25mm

- Airflow: 27.9~59.8 CFM
- Static Pressure: 1.3~5.4 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 88 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128025LS	S	12	7~13.2	1900	27.9	1.3	100	1.20	30000	5	22.5
FD128025MS	S		7~13.2	2400	35.4	2.1	160	1.92	30000	4	27.5
FD128025HS	S		7~13.2	2900	43.7	2.9	230	2.76	25000	3	33.5
FD128025ES	S		7~13.2	3200	47.4	3.6	260	3.12	20000	2	36.0
FD128025LB	2B		7~13.2	2000	30.0	1.5	100	1.20	80000	5	23.5
FD128025MB	2B		7~13.2	2500	37.0	2.1	160	1.92	80000	4	30.0
FD128025HB	2B	24	7~13.2	3000	45.2	3.1	230	2.76	75000	3	34.5
FD128025EB	2B		7~13.2	3300	48.5	3.8	260	3.12	65000	2	37.0
FD128025EB	2B		7~13.2	4000	59.8	5.4	450	5.40	65000	1	43.0
FD248025LB	2B		12~26.4	2000	30.0	1.5	60	1.44	80000	5	23.5
FD248025MB	2B		12~26.4	2500	37.0	2.2	80	1.92	80000	4	30.0
FD248025HB	2B		12~26.4	3000	45.2	3.1	130	3.12	75000	3	34.5
FD248025EB	2B	48	12~26.4	3300	48.5	3.8	150	3.60	65000	2	37.0
FD488025LB	2B		24~56.0	2000	30.0	1.5	30	1.44	80000	5	23.5
FD488025MB	2B		24~56.0	2500	37.0	2.2	50	2.40	80000	4	30.0
FD488025HB	2B		24~56.0	3000	45.2	3.1	90	4.08	75000	3	34.5
FD488025EB	2B		24~56.0	3300	48.5	3.8	110	5.28	65000	2	37.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

Bearing System Available

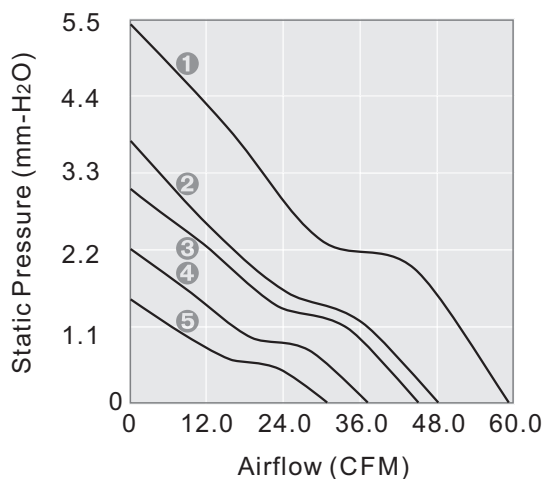
05 12 24 48

2B L S

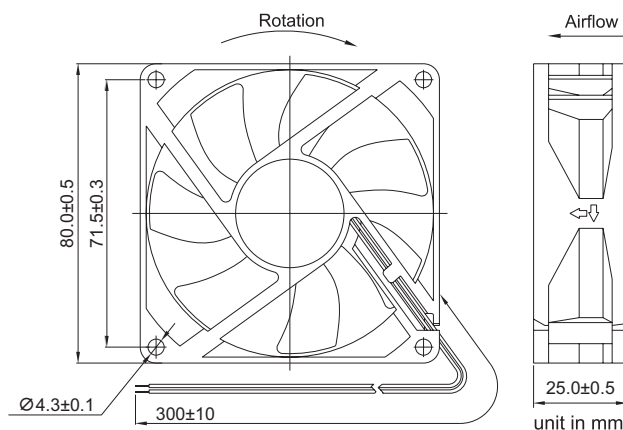
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x25mm

- Airflow: 31.4~54.5 CFM
- Static Pressure: 2.0~5.9 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 88 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD128025LB-E	2B	VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128025MB-E	2B	12	7~13.2	2000	31.4	2.0	100	1.20	80000	5	26.6
FD128025HB-E	2B		7~13.2	2300	36.2	2.6	130	1.56	80000	4	29.6
FD128025EB-E	2B		7~13.2	2700	42.3	3.5	190	2.28	75000	3	33.1
FD128025EB-E	2B		7~13.2	3100	48.4	4.6	280	3.36	65000	2	36.1
FD128025EB-E	2B		7~13.2	3500	54.5	5.9	300	3.60	65000	1	38.7
FD248025LB-E	2B	24	12~26.4	2000	31.4	2.0	55	1.32	80000	5	26.6
FD248025MB-E	2B		12~26.4	2300	36.2	2.6	70	1.68	80000	4	29.6
FD248025HB-E	2B		12~26.4	2700	42.3	3.5	90	2.16	75000	3	33.1
FD248025EB-E	2B		12~26.4	3100	48.4	4.6	130	3.12	65000	2	36.1
FD248025EB-E	2B		12~26.4	3500	54.5	5.9	140	3.36	65000	1	38.7
FD488025LB-E	2B	48	24~56.0	2000	31.4	2.0	40	1.92	80000	5	26.6
FD488025MB-E	2B		24~56.0	2300	36.2	2.6	50	2.40	80000	4	29.6
FD488025HB-E	2B		24~56.0	2700	42.3	3.5	70	3.36	75000	3	33.1
FD488025EB-E	2B		24~56.0	3100	48.4	4.6	90	4.32	65000	2	36.1
FD488025EB-E	2B		24~56.0	3500	54.5	5.9	110	5.28	65000	1	38.7

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

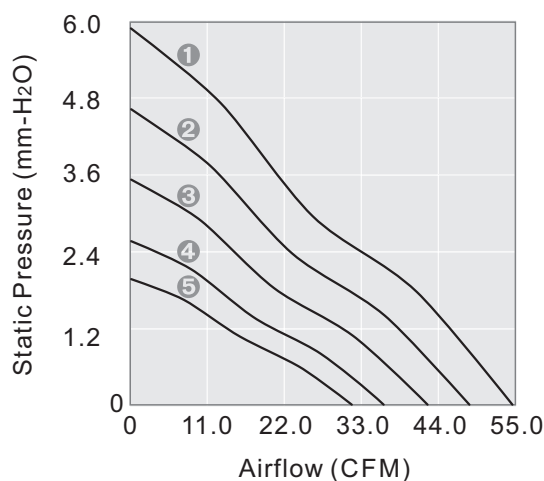
Bearing System Available

2B L S

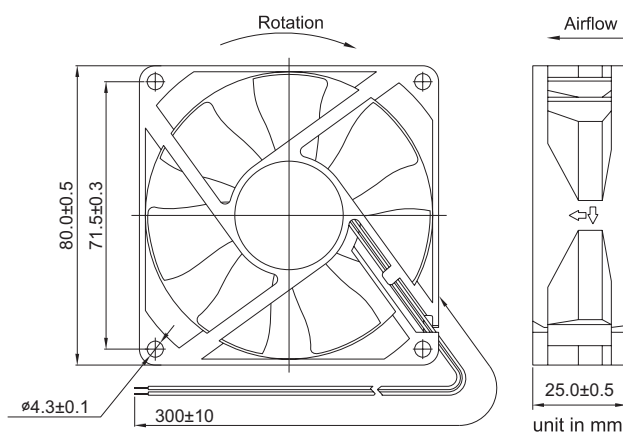
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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Visit Y.S. TECH web site at <http://www.ystech.com.tw> for updated information. Customized Specifications are designed accordingly



80x80x25mm

- Airflow: 26.3~59.6 CFM
- Static Pressure: 2.0~8.8 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 100 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128025LS-N	S	12	7~13.2	2100	26.3	2.0	80	0.96	30000	6	26.0
FD128025MS-N	S		7~13.2	2600	32.7	3.1	130	1.56	30000	5	29.5
FD128025HS-N	S		7~13.2	3200	40.4	3.9	200	2.40	25000	4	35.5
FD128025ES-N	S		7~13.2	3500	46.0	5.2	250	3.00	20000	3	38.5
FD128025LB-N	2B		7~13.2	2300	28.8	2.2	80	0.96	80000	6	27.0
FD128025MB-N	2B		7~13.2	2900	36.9	3.6	130	1.56	80000	5	32.0
FD128025HB-N	2B		7~13.2	3400	41.7	4.5	140	1.68	75000	4	37.5
FD128025EB-N	2B		7~13.2	3700	48.5	5.8	250	3.00	65000	3	39.5
FD128025EB-N	2B		7~13.2	4500	59.6	8.8	280	3.36	65000	2	44.0
FD128025UB-N	2B		7~13.2	5500	64.1	12.5	500	6.00	65000	1	48.0
FD248025LB-N	2B	24	12~26.4	2300	28.8	2.2	60	1.44	80000	6	27.0
FD248025MB-N	2B		12~26.4	2900	36.9	3.6	80	1.92	80000	5	32.0
FD248025HB-N	2B		12~26.4	3400	41.7	4.5	100	2.40	75000	4	37.5
FD248025EB-N	2B		12~26.4	3700	48.5	5.8	110	2.64	65000	3	39.5
FD248025EB-N	2B		12~26.4	4500	59.6	8.8	200	4.80	65000	2	44.0
FD488025MB-N	2B	48	24~56.0	2900	36.9	3.6	45	2.16	80000	5	32.0
FD488025HB-N	2B		24~56.0	3400	41.7	4.5	80	3.84	75000	4	37.5
FD488025EB-N	2B		24~56.0	3700	48.5	5.9	90	4.08	75000	3	39.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

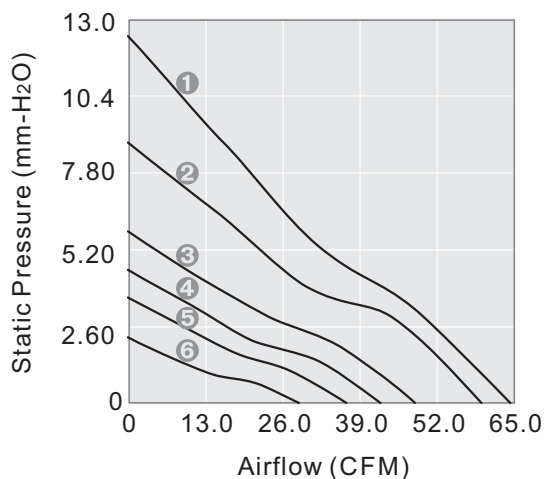
Bearing System Available

2B L S

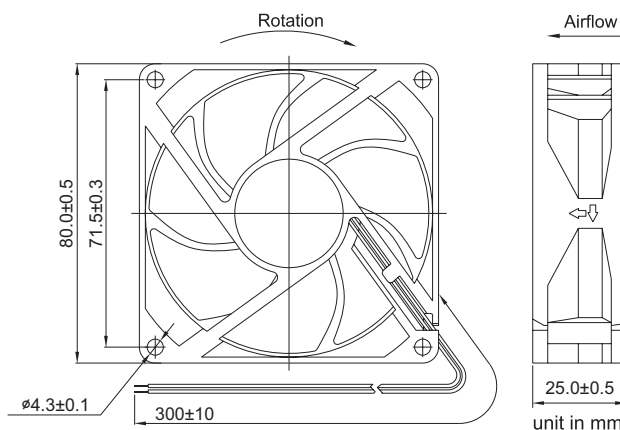
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department. Visit Y.S. TECH web site at <http://www.ystech.com.tw> for updated information. Customized Specifications are designed accordingly



80x80x25mm

- Airflow: 47.4~80.0 CFM
- Static Pressure: 6.8~17.2 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 103.5 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128025LB-H	2B	12	7~13.2	3800	47.4	6.8	180	2.16	80000	5	39.5
FD128025MB-H	2B		7~13.2	4400	55.7	9.0	260	3.12	80000	4	43.5
FD128025HB-H	2B		7~13.2	5000	62.3	11.3	330	3.96	75000	3	46.7
FD128025EB-H	2B		7~13.2	5600	70.0	14.2	480	5.76	65000	2	50.0
FD128025EB-H	2B		7~13.2	6200	80.0	17.2	600	7.20	65000	1	53.5
FD248025LB-H	2B	24	12~26.4	3800	47.4	6.8	100	2.40	80000	5	39.5
FD248025MB-H	2B		12~26.4	4400	55.7	9.0	130	3.12	80000	4	43.5
FD248025HB-H	2B		12~26.4	5000	62.3	11.3	180	4.32	75000	3	46.7
FD248025EB-H	2B		12~26.4	5600	70.0	14.2	220	5.28	65000	2	50.0
FD248025EB-H	2B		12~26.4	6200	80.0	17.2	330	7.92	65000	1	53.5
FD488025LB-H	2B	48	24~56.0	3800	47.4	6.8	65	3.12	80000	5	39.5
FD488025MB-H	2B		24~56.0	4400	55.7	9.0	85	4.08	80000	4	43.5
FD488025HB-H	2B		24~56.0	5000	62.3	11.3	100	4.80	75000	3	46.7
FD488025EB-H	2B		24~56.0	5600	70.0	14.2	130	6.24	65000	2	50.0
FD488025EB-H	2B		24~56.0	6200	80.0	17.2	160	7.68	65000	1	53.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

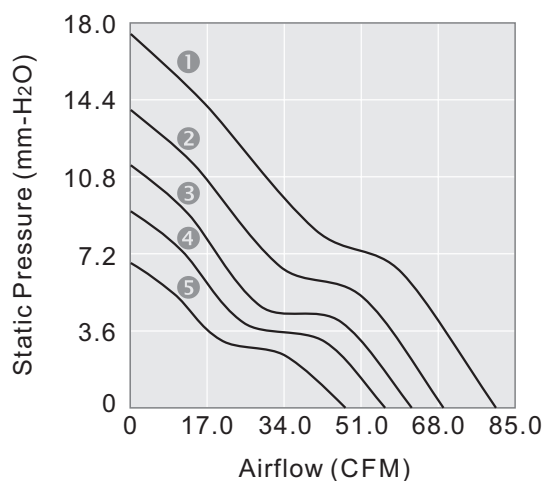
Bearing System Available

2B L S

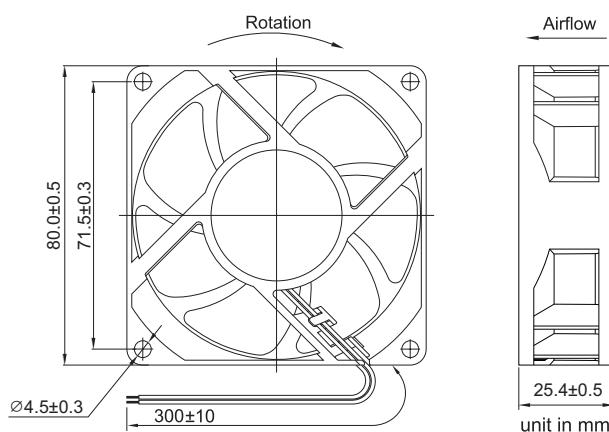
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x32mm

- Airflow: 57.3~98.6 CFM
- Static Pressure: 20.4~47.0 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 150.6 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128032LB-E	2B	12	7~13.2	6600	57.3	20.4	350	4.20	80000	5	49.6
FD128032MB-E	2B		7~13.2	7600	66.8	30.6	450	5.40	80000	4	53.5
FD128032HB-E	2B		7~13.2	8600	75.4	32.0	650	7.80	75000	3	56.7
FD128032EB-E	2B		7~13.2	9600	85.0	38.7	800	9.60	65000	2	58.6
FD128032UB-E	2B		7~13.2	11000	98.6	47.0	1240	14.88	65000	1	61.9
FD248032LB-E	2B	24	12~26.4	6600	57.3	20.4	180	4.32	80000	5	49.6
FD248032MB-E	2B		12~26.4	7600	66.8	30.6	260	6.24	80000	4	53.5
FD248032HB-E	2B		12~26.4	8600	75.4	32.0	340	8.16	75000	3	56.7
FD248032EB-E	2B		12~26.4	9600	85.0	38.7	420	10.08	65000	2	58.6
FD248032UB-E	2B		12~26.4	11000	98.6	47.0	700	16.80	65000	1	61.9

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

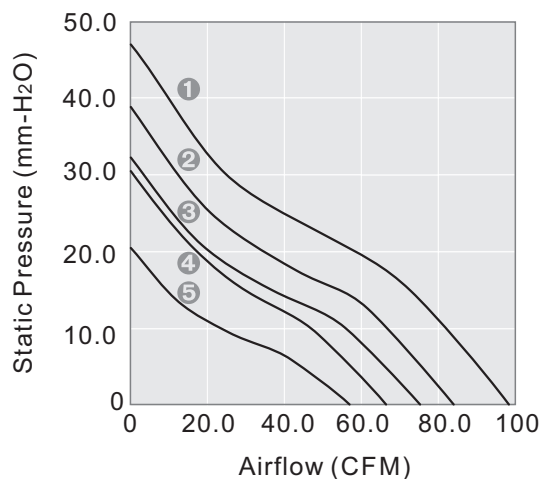
Bearing System Available

2B L S

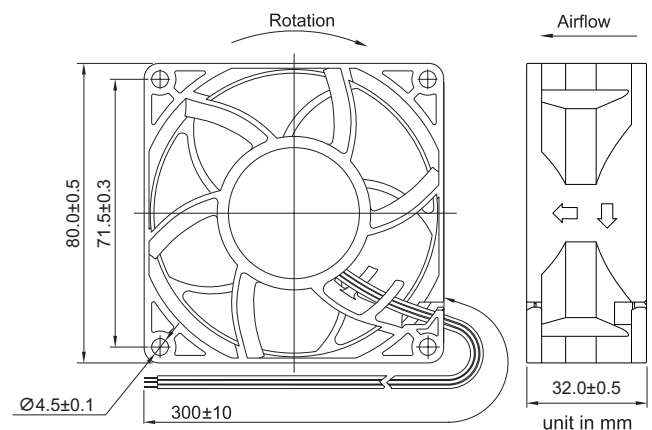
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x38mm

- Airflow: 55.2~135.0 CFM
- Static Pressure: 23.3~145.0 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1061 #22 AWG
- Weight: 220.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD128038LB-E	2B	12	7~14.0	7000	55.2	23.3	550	6.60	80000	5	50.0
FD128038MB-E	2B		7~14.0	9000	70.9	39.6	950	11.40	80000	4	56.0
FD128038HB-E	2B		7~14.0	11000	87.1	63.0	1550	18.60	75000	3	60.8
FD128038EB-E	2B		7~14.0	14000	111.6	102.1	2900	34.80	65000	2	67.5
FD128038UB-E	2B		7~14.0	17000	135.0	145.0	4800	57.60	65000	1	69.5
FD248038LB-E	2B	24	10~30.0	7000	55.2	23.3	300	7.20	80000	5	50.0
FD248038MB-E	2B		10~30.0	9000	70.9	39.6	450	10.80	80000	4	56.0
FD248038HB-E	2B		10~30.0	11000	87.1	63.0	730	16.80	75000	3	60.8
FD248038EB-E	2B		10~30.0	14000	111.6	102.1	1300	31.20	65000	2	67.5
FD248038UB-E	2B		10~30.0	17000	135.0	145.0	2300	55.20	65000	1	69.5
FD488038LB-E	2B	48	24~75.0	7000	55.2	23.3	200	9.60	80000	5	50.0
FD488038MB-E	2B		24~75.0	9000	70.9	39.6	270	12.96	80000	4	56.0
FD488038HB-E	2B		24~75.0	11000	87.1	63.0	360	17.28	75000	3	60.8
FD488038EB-E	2B		24~75.0	14000	111.6	102.1	700	33.60	65000	2	67.5
FD488038UB-E	2B		24~75.0	17000	135.0	145.0	1200	57.60	65000	1	69.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

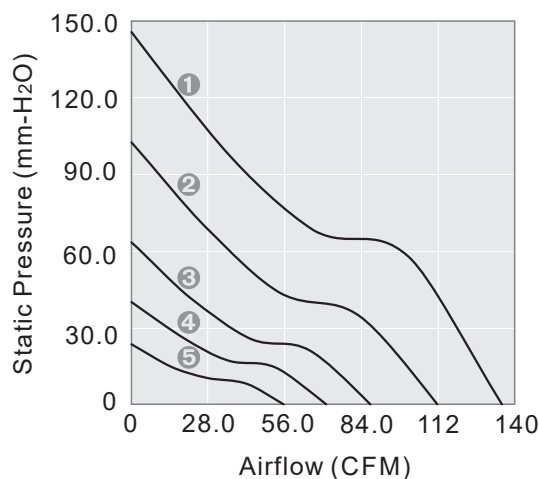
Bearing System Available

2B L S

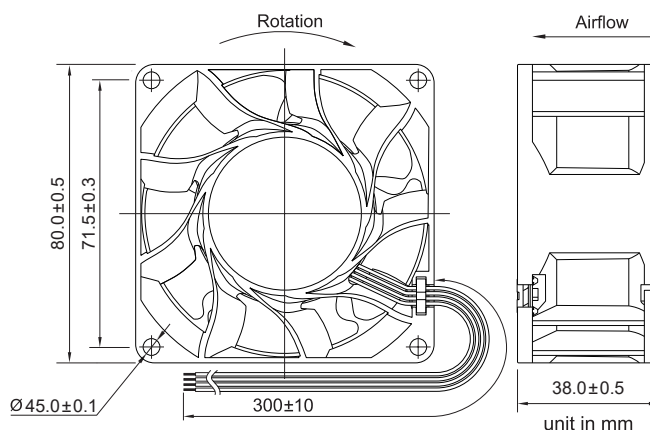
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25mm

- Airflow: 45.8~73.4 CFM
- Static Pressure: 3.1~7.2 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 100.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD129225LS	S	12	7~13.2	2400	45.8	3.1	150	1.80	30000	5	32.5
FD129225MS	S		7~13.2	2800	53.5	4.3	220	2.64	30000	4	38.0
FD129225HS	S		7~13.2	3100	58.6	5.2	260	3.12	25000	3	40.0
FD129225ES	S		7~13.2	3500	67.3	5.9	340	4.08	20000	2	43.0
FD129225ES	S		7~13.2	3800	73.4	7.3	470	5.64	20000	1	45.5
FD129225LB	2B		7~13.2	2400	45.8	3.1	150	1.80	80000	5	32.5
FD129225MB	2B		7~13.2	2800	53.5	4.3	220	2.64	80000	4	38.0
FD129225HB	2B		7~13.2	3100	58.6	5.2	260	3.12	75000	3	40.0
FD129225EB	2B		7~13.2	3500	67.3	5.9	340	4.08	65000	2	43.0
FD129225EB	2B		7~13.2	3800	73.4	7.2	470	5.64	65000	1	45.5
FD249225LB	2B	24	12~26.4	2400	45.8	3.1	90	2.16	80000	5	32.5
FD249225MB	2B		12~26.4	2800	53.5	4.3	120	2.88	80000	4	38.0
FD249225HB	2B		12~26.4	3100	58.6	5.2	160	3.84	75000	3	40.0
FD249225EB	2B		12~26.4	3500	67.3	5.9	200	4.80	65000	2	43.0
FD249225EB	2B		12~26.4	3800	73.4	7.3	270	6.48	65000	1	45.5
FD489225LB	2B		24~56.0	2400	45.8	3.1	55	2.64	80000	5	32.5
FD489225MB	2B	48	24~56.0	2800	53.5	4.3	80	3.84	80000	4	38.0
FD489225HB	2B		24~56.0	3100	58.6	5.2	100	4.80	75000	3	40.0
FD489225EB	2B		24~56.0	3500	67.3	5.9	150	7.20	65000	2	43.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

Bearing System Available

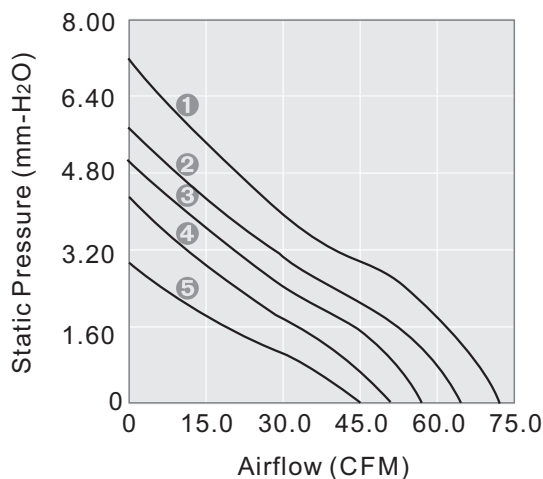
05 12 24 48

2B L S

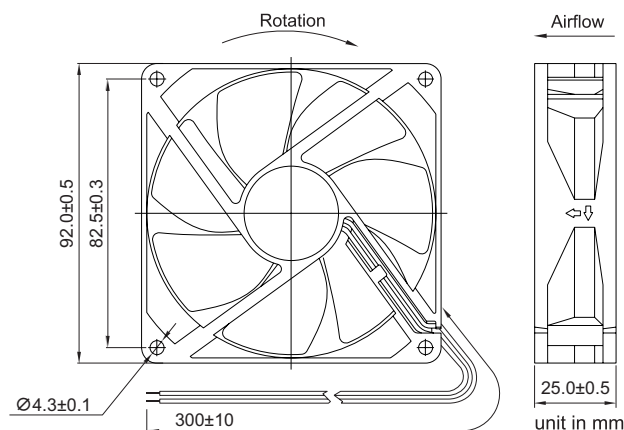
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25mm

- Airflow: 38.1~75.0 CFM
- Static Pressure: 1.5~4.8 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 100.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD129225LS-N	S	VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD129225MS-N	S		7~13.2	1800	38.1	1.5	100	1.20	30000	5	25.0
FD129225HS-N	S		7~13.2	2300	48.7	2.2	160	1.92	30000	4	32.0
FD129225ES-N	S		7~13.2	2700	61.4	2.7	200	2.40	25000	3	36.5
FD129225LS-N	S		7~13.2	3000	63.1	3.3	260	3.12	20000	2	39.0
FD129225LB-N	2B	12	7~13.2	1900	40.2	1.7	100	1.20	80000	5	25.0
FD129225MB-N	2B		7~13.2	2400	50.8	2.4	160	1.92	80000	4	33.0
FD129225HB-N	2B		7~13.2	2800	63.7	3.0	230	2.76	75000	3	37.5
FD129225EB-N	2B		7~13.2	3100	66.3	3.7	260	3.12	65000	2	40.0
FD129225EB-N	2B		7~13.2	3500	75.0	4.8	360	4.32	65000	1	42.5
FD249225LB-N	2B	24	12~26.4	1900	40.2	1.7	60	1.44	80000	5	25.0
FD249225MB-N	2B		12~26.4	2400	50.8	2.4	80	1.92	80000	4	33.0
FD249225HB-N	2B		12~26.4	2800	63.7	3.0	130	3.12	75000	3	37.5
FD249225EB-N	2B		12~26.4	3600	81.9	3.9	190	4.56	65000	1	47.5
FD489225LB-N	2B	48	24~56.0	1900	40.2	1.7	30	1.44	80000	5	25.0
FD489225MB-N	2B		24~56.0	2400	50.8	2.4	55	2.64	80000	4	33.0
FD489225HB-N	2B		24~56.0	2800	63.7	3.0	70	3.36	75000	3	37.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

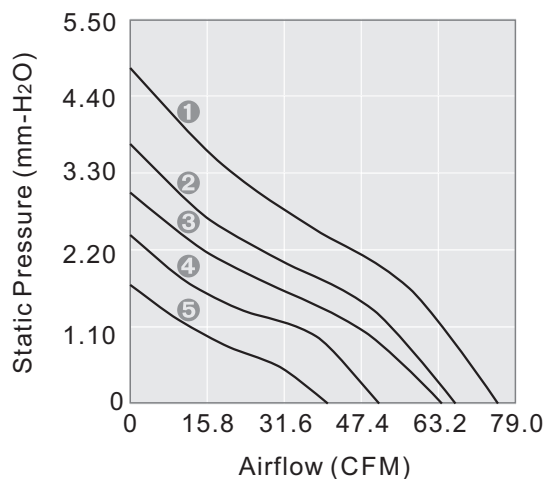
Bearing System Available

2B L S

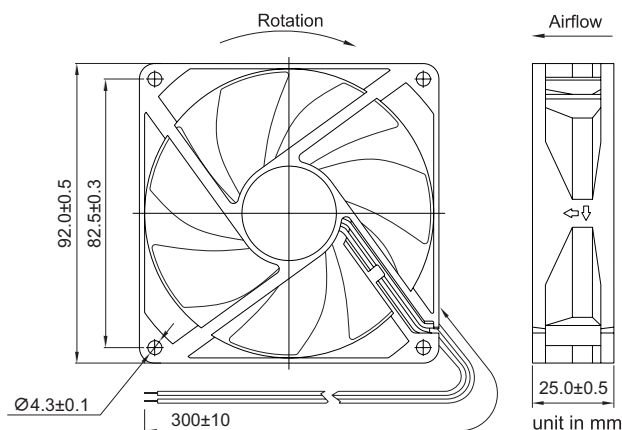
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25mm

- Airflow: 76.2~109.3 CFM
- Static Pressure: 9.2~16.4 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 117.6 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD129225L B-S	2B	12	7~13.2	3800	76.2	9.2	350	4.20	80000	4	44.0
FD129225MB-S	2B		7~13.2	4300	87.8	11.6	450	5.40	80000	3	47.0
FD129225HB-S	2B		7~13.2	4800	100.3	15.0	650	7.80	75000	2	49.0
FD129225EB-S	2B		7~13.2	5300	109.3	16.4	900	10.8	65000	1	51.0
FD249225L B-S	2B	24	12~26.4	3800	76.2	9.2	190	4.56	80000	4	44.0
FD249225MB-S	2B		12~26.4	4300	87.8	11.6	260	6.24	80000	3	47.0
FD249225HB-S	2B		12~26.4	4800	100.3	15.0	350	8.40	75000	2	49.0
FD249225EB-S	2B		12~26.4	5300	109.3	16.4	450	10.8	65000	1	51.0
FD489225L B-S	2B	48	24~56.0	3800	76.2	9.2	110	5.28	80000	4	44.0
FD489225MB-S	2B		24~56.0	4300	87.8	11.6	130	6.24	80000	3	47.0
FD489225HB-S	2B		24~56.0	4800	100.3	15.0	170	8.16	75000	2	49.0
FD489225EB-S	2B		24~56.0	5300	109.3	16.4	220	10.6	65000	1	51.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

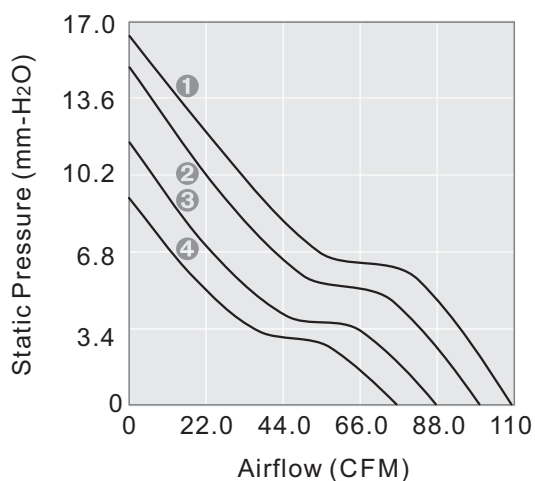
Bearing System Available

2B L S

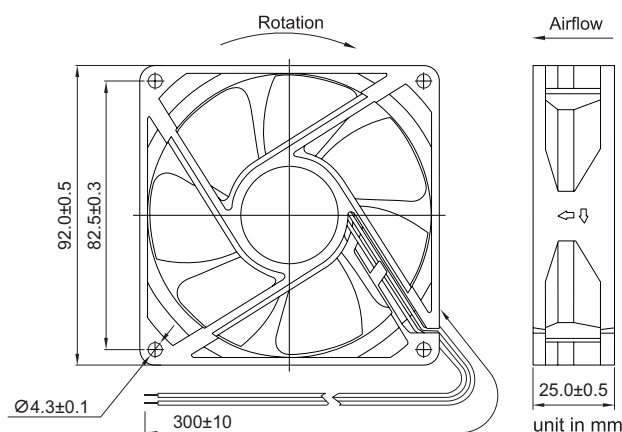
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25mm

- Airflow: 25.9~92.5 CFM
- Static Pressure: 2.1~20.7 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 117.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD129225LB-Q	2B	12	7~13.2	2000	25.9	2.1	35	0.42	80000	6	16.7
FD129225MB-Q	2B		7~13.2	3000	39.6	4.6	85	1.02	80000	5	28.2
FD129225HB-Q	2B		7~13.2	4000	50.3	6.9	145	1.74	75000	4	35.0
FD129225EB-Q	2B		7~13.2	5000	64.8	10.3	300	3.60	65000	3	41.3
FD129225UB-Q	2B		7~13.2	6000	78.3	15.7	490	5.88	65000	2	46.5
FD129225SB-Q	2B		7~13.2	7000	92.5	20.7	750	9.00	60000	1	50.3
FD249225LB-Q	2B	24	12~26.4	2000	25.9	2.1	45	1.08	80000	6	16.7
FD249225MB-Q	2B		12~26.4	3000	39.6	4.6	70	1.68	80000	5	28.2
FD249225HB-Q	2B		12~26.4	4000	50.3	6.9	100	2.40	75000	4	35.0
FD249225EB-Q	2B		12~26.4	5000	64.8	10.3	160	3.84	65000	3	41.3
FD249225UB-Q	2B		12~26.4	6000	78.3	15.7	230	5.52	65000	2	46.5
FD249225SB-Q	2B		12~26.4	7000	92.5	20.7	340	8.16	60000	1	50.3
FD489225LB-Q	2B	48	24~56.0	2000	25.9	2.1	35	1.68	80000	6	16.7
FD489225MB-Q	2B		24~56.0	3000	39.6	4.6	45	2.16	80000	5	28.2
FD489225HB-Q	2B		24~56.0	4000	50.3	6.9	70	3.36	75000	4	35.0
FD489225EB-Q	2B		24~56.0	5000	64.8	10.3	90	4.32	65000	3	41.3
FD489225UB-Q	2B		24~56.0	6000	78.3	15.7	130	6.24	65000	2	46.5
FD489225SB-Q	2B		24~56.0	7000	92.5	20.7	180	8.64	60000	1	50.3

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

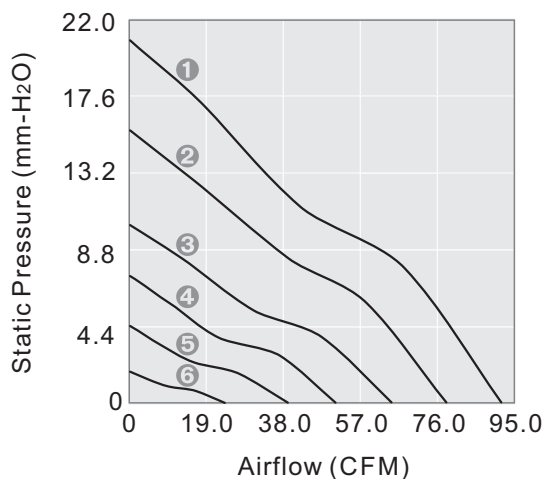
Bearing System Available

2B L S

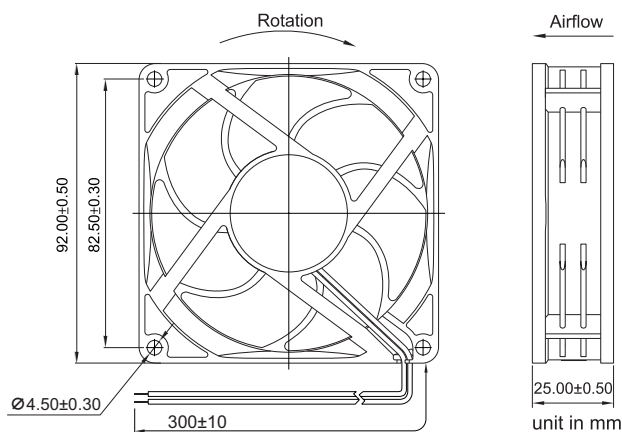
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

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Visit Y.S. TECH web site at <http://www.ystech.com.tw> for updated information. Customized Specifications are designed accordingly



92x92x38mm

- Airflow: 56.6~192.9 CFM
- Static Pressure: 13.2~103.7 mm-H₂O
- Blade / Housing: Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1061 #22 AWG
- Weight: 233.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD129238LB-E	2B	12	7~14.0	4000	56.6	13.2	270	3.24	80000	5	39.5
FD129238MB-E	2B		7~14.0	6000	84.6	29.1	600	7.20	80000	4	51.5
FD129238HB-E	2B		7~14.0	8000	113.6	48.9	1100	13.20	75000	3	57.5
FD129238EB-E	2B		7~14.0	10500	150.9	66.9	2400	28.80	65000	2	65.0
FD129238UB-E	2B		7~14.0	12500	184.5	79.0	4400	52.80	65000	1	67.5
FD249238LB-E	2B	24	10~30.0	4000	56.6	13.2	180	4.32	80000	5	39.5
FD249238MB-E	2B		10~30.0	6000	84.6	29.1	320	7.68	80000	4	51.5
FD249238HB-E	2B		10~30.0	8000	113.6	48.9	540	12.96	75000	3	57.5
FD249238EB-E	2B		10~30.0	10500	150.9	66.9	1050	25.20	65000	2	65.0
FD249238UB-E	2B		10~30.0	13500	192.9	103.7	2200	52.80	65000	1	68.5
FD489238LB-E	2B	48	24~75.0	4000	56.6	13.2	80	3.84	80000	5	39.5
FD489238MB-E	2B		24~75.0	6000	84.6	29.1	180	8.64	80000	4	51.5
FD489238HB-E	2B		24~75.0	8000	113.6	48.9	280	13.44	75000	3	57.5
FD489238EB-E	2B		24~75.0	10500	150.9	66.9	540	25.92	65000	2	65.0
FD489238UB-E	2B		24~75.0	13500	192.9	103.7	1100	52.80	65000	1	68.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

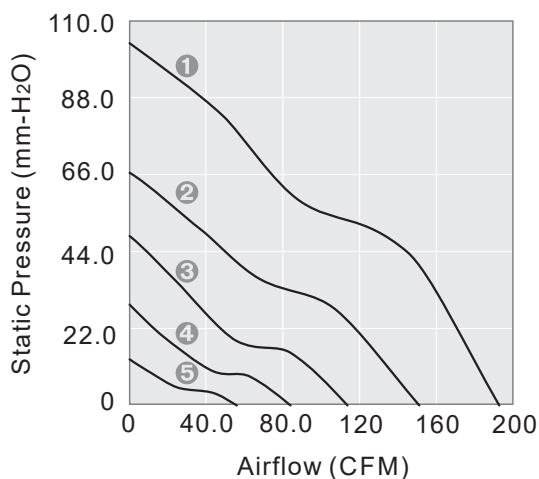
Bearing System Available

2B L S

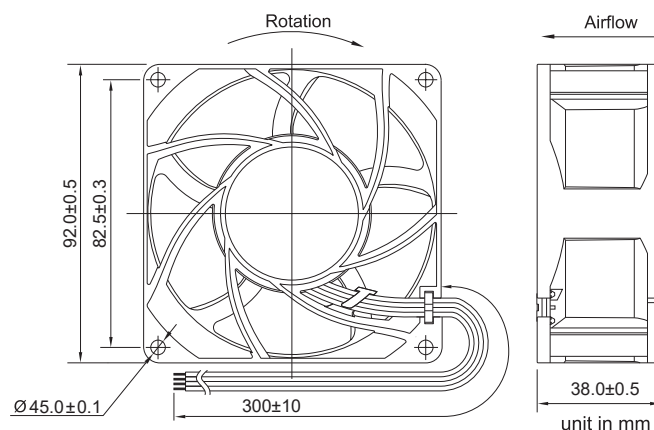
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x25mm

- Airflow: 61.2 CFM
- Static Pressure: 2.3 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 118 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
KM121225LB	2B	12	7~13.2	2000	61.2	2.3	180	2.16	80000	1	31.5
KM121225LB	2B		7~13.2	1200	38.4	1.4	70	0.84	80000	2	17.5
KM121225LL	L		7~13.2	1200	38.4	1.4	65	0.78	50000	2	17.5
KM121225LL	L		7~13.2	800	25.6	1.0	40	0.48	50000	3	16.5
KM121225LS	S		7~13.2	2000	61.2	2.3	180	2.16	30000	1	31.5
KM121225LS	S		7~13.2	1200	38.4	1.4	70	0.84	30000	2	17.5
KM121225LS	S		7~13.2	800	25.6	1.0	40	0.48	30000	3	16.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

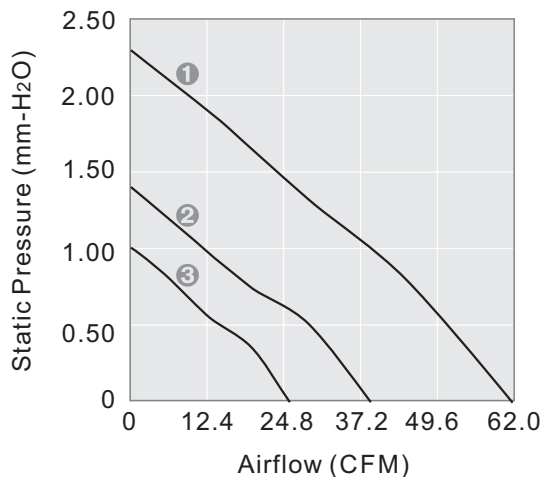
Bearing System Available

2B L S

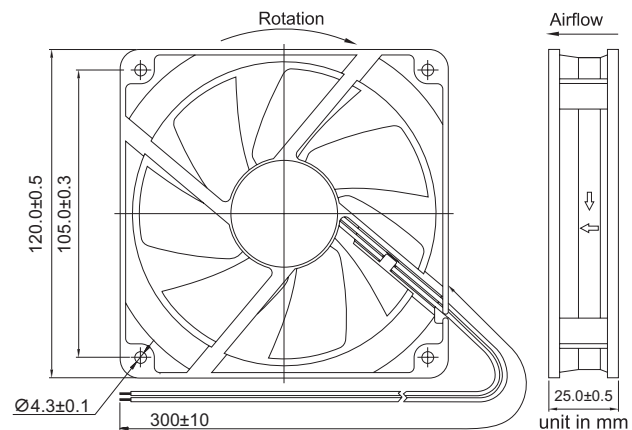
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x25mm

- Airflow: 73.0~208.4 CFM
- Static Pressure: 2.6~18.0 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 160 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121225LB	2B	12	7~13.2	1800	73.0	2.6	180	2.16	80000	8	34.0
FD121225MB	2B		7~13.2	2200	87.8	3.9	290	3.48	80000	7	40.5
FD121225HB	2B		7~13.2	2600	106.1	5.8	460	5.52	75000	6	44.0
FD121225EB	2B		7~13.2	3000	123.1	7.6	570	6.84	65000	5	49.0
FD121225EB	2B		7~13.2	3500	144.6	8.4	650	7.80	65000	4	51.5
FD121225EB	2B		7~13.2	4100	169.5	12.0	950	11.40	65000	3	55.0
FD121225UB	2B		7~13.2	4600	190.2	16.2	1300	15.60	65000	2	57.5
FD121225SB	2B		7~13.2	5200	208.4	18.0	1900	22.80	60000	1	59.5
FD241225LB	2B	24	12~26.4	1800	73.0	2.6	100	2.40	80000	8	34.0
FD241225MB	2B		12~26.4	2200	87.8	3.9	160	3.84	80000	7	40.5
FD241225HB	2B		12~26.4	2600	106.1	5.8	280	6.72	75000	6	44.0
FD241225EB	2B		12~26.4	3500	144.6	8.4	380	9.12	65000	4	51.5
FD241225UB	2B		12~26.4	4600	190.2	16.2	660	15.84	65000	2	57.5
FD241225SB	2B		12~26.4	5200	208.4	18.0	1000	24.00	60000	1	59.5
FD481225LB	2B	48	24~56.0	1800	73.0	2.6	70	3.36	80000	8	34.0
FD481225MB	2B		24~56.0	2200	87.8	3.9	75	3.60	80000	7	40.5
FD481225HB	2B		24~56.0	2600	106.1	5.8	130	6.24	75000	6	44.0
FD481225EB	2B		24~56.0	3500	144.6	8.4	200	9.60	65000	4	51.5
FD481225UB	2B		24~56.0	4600	190.2	16.2	330	15.84	65000	2	57.5
FD481225SB	2B		24~56.0	5200	208.4	18.0	520	24.96	60000	1	59.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

Bearing System Available

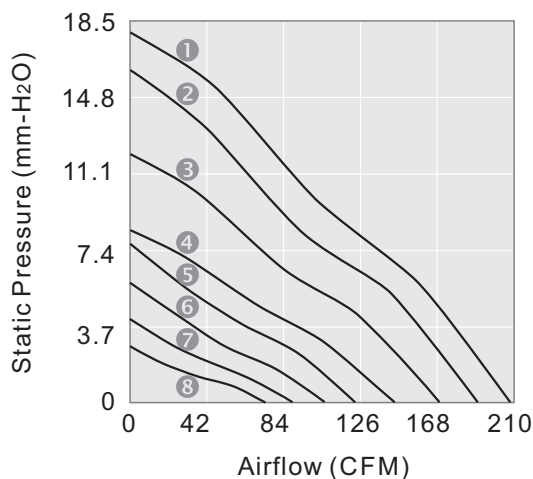
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2B L S

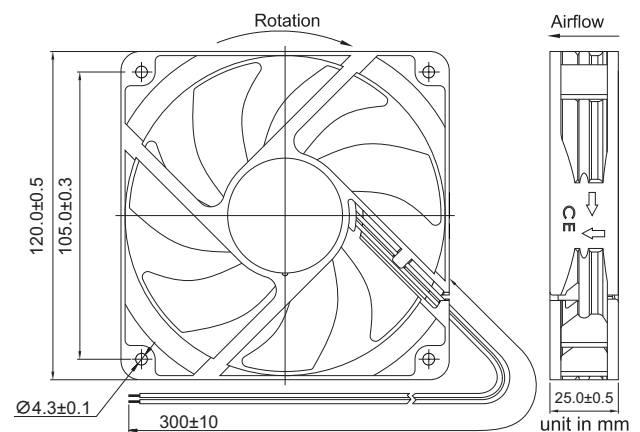
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x25mm

- Airflow: 56.5~181.0 CFM
- Static Pressure: 3.1~24.3mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 205 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD121225LB-Q	2B	VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121225MB-Q	2B	12	7~13.2	2000	56.5	3.1	130	1.56	80000	4	29.3
FD121225HB-Q	2B		7~13.2	2800	81.8	6.0	220	2.64	80000	3	39.1
FD121225EB-Q	2B		7~13.2	4400	127.9	14.1	550	6.60	75000	2	51.4
FD121225EB-Q	2B		7~13.2	6000	181.0	24.3	1300	15.60	65000	1	60.5
FD241225LB-Q	2B	24	12~26.4	2000	56.5	3.1	85	2.04	80000	4	29.3
FD241225MB-Q	2B		12~26.4	2800	81.8	6.0	130	3.12	80000	3	39.1
FD241225HB-Q	2B		12~26.4	4400	127.9	14.1	320	7.68	75000	2	51.4
FD241225EB-Q	2B		12~26.4	6000	181.0	24.3	700	16.80	65000	1	60.5
FD481225LB-Q	2B	48	24~56.0	2000	56.5	3.1	60	2.88	80000	4	29.3
FD481225MB-Q	2B		24~56.0	2800	81.8	6.0	85	4.08	80000	3	39.1
FD481225HB-Q	2B		24~56.0	4400	127.9	14.1	180	8.64	75000	2	51.4
FD481225EB-Q	2B		24~56.0	6000	181.0	24.3	400	19.20	65000	1	60.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

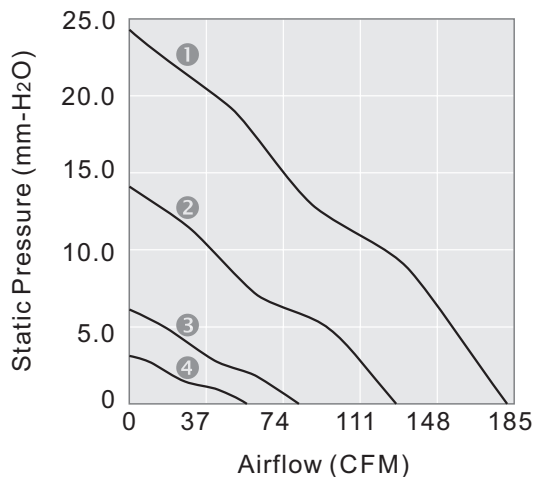
Bearing System Available

2B L S

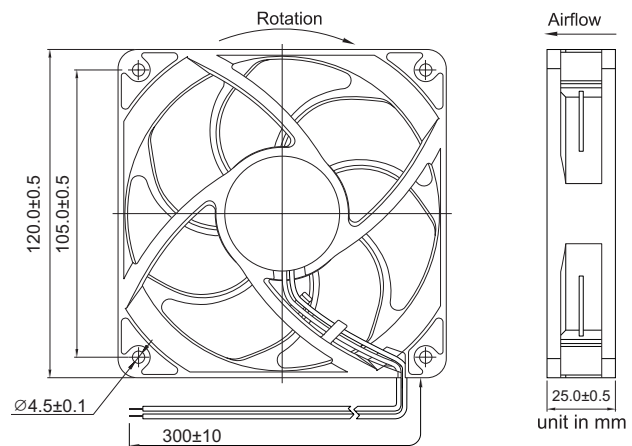
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x32mm

- Airflow: 87.7~234.3 CFM
- Static Pressure: 4.2~24.4 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 219 g

DC AXIAL FAN

DC BLOWER

XTREME SERIES

AC AXIAL FAN

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121232LB	2B	12	7~13.2	2100	87.7	4.2	330	3.96	80000	9	39.0
FD121232MB	2B		7~13.2	2500	99.3	6.1	450	5.40	80000	8	42.5
FD121232HB	2B		7~13.2	2900	115.0	8.0	580	6.96	75000	7	47.5
FD121232EB	2B		7~13.2	3300	137.3	9.4	840	10.08	65000	6	49.0
FD121232EB	2B		7~13.2	3500	157.7	11.8	700	8.40	65000	5	55.0
FD121232EB	2B		7~13.2	4100	184.8	13.8	1100	13.20	65000	4	58.5
FD121232UB	2B	24	7~13.2	4600	207.3	18.2	1600	19.20	65000	3	61.0
FD121232SB	2B		7~13.2	4900	220.8	21.2	2200	26.40	60000	2	62.0
FD241232LB	2B		12~26.4	2100	87.7	4.2	150	3.60	80000	9	39.0
FD241232MB	2B		12~26.4	2500	99.3	6.1	200	4.80	80000	8	42.5
FD241232HB	2B		12~26.4	2900	115.0	8.0	290	6.96	75000	7	47.5
FD241232EB	2B		12~26.4	3500	157.7	11.8	360	8.64	65000	5	55.0
FD241232UB	2B	48	12~26.4	4600	207.3	18.2	750	18.00	65000	3	61.0
FD241232SB	2B		12~26.4	5200	234.3	24.4	1000	24.00	60000	1	63.5
FD481232LB	2B		24~56.0	2100	83.3	4.3	90	4.32	80000	9	39.5
FD481232MB	2B		24~56.0	2500	99.3	6.1	130	6.24	80000	8	42.5
FD481232HB	2B		24~56.0	2900	115.0	8.0	190	9.12	75000	7	47.0
FD481232EB	2B		24~56.0	3500	157.7	11.8	210	10.08	65000	5	55.0
FD481232UB	2B		24~56.0	4600	207.3	18.2	450	21.60	65000	3	61.0
FD481232SB	2B		24~56.0	5200	234.3	24.4	600	28.80	60000	1	63.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

Bearing System Available

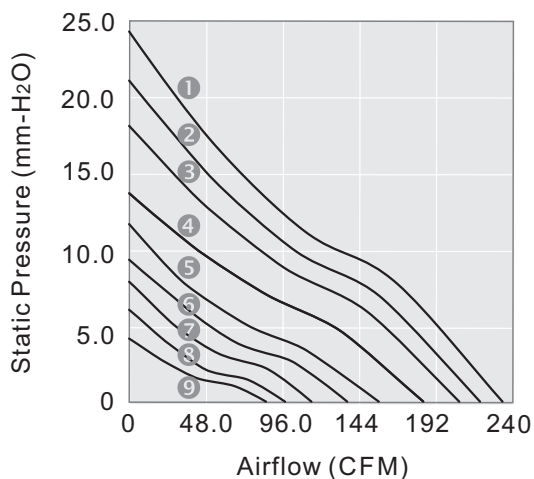
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2B L S

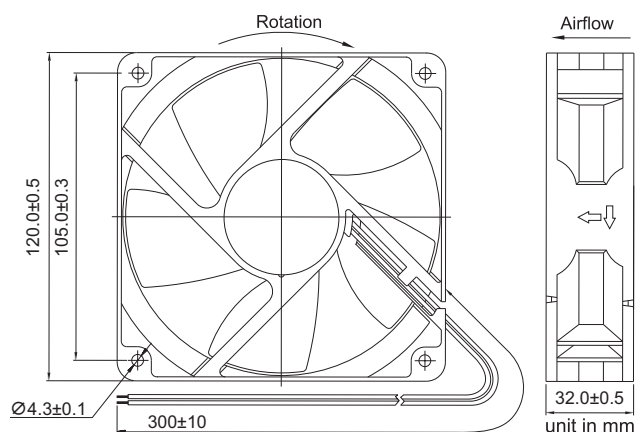
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS

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120x120x38mm

- Airflow: 89.5~212.6 CFM
- Static Pressure: 3.9~19.8 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 220 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121238LB	2B	12	7~13.2	2000	89.5	3.9	320	3.84	80000	7	36.0
FD121238MB	2B		7~13.2	2400	107.0	5.8	400	4.80	80000	6	41.0
FD121238HB	2B		7~13.2	2800	125.5	7.6	660	7.92	75000	5	45.0
FD121238EB	2B		7~13.2	3000	135.0	8.6	830	9.96	65000	4	47.0
FD121238EB	2B		7~13.2	3500	161.1	10.4	750	9.00	65000	3	55.5
FD121238EB	2B		7~13.2	4100	189.2	15.1	1250	15.00	65000	2	59.0
FD121238UB	2B	24	7~13.2	4600	212.6	19.8	1750	21.00	65000	1	61.5
FD241238LB	2B		12~26.4	2000	89.5	3.9	150	3.60	80000	7	36.0
FD241238MB	2B		12~26.4	2400	107.0	5.8	250	6.00	80000	6	41.0
FD241238HB	2B		12~26.4	2800	125.5	7.6	310	7.44	75000	5	45.0
FD241238EB	2B		12~26.4	3000	135.0	8.6	410	9.84	65000	4	47.0
FD241238EB	2B		12~26.4	3500	161.1	10.4	410	9.84	75000	3	55.5
FD241238EB	2B	48	12~26.4	4100	189.2	15.1	620	14.88	65000	2	59.0
FD241238UB	2B		12~26.4	4600	212.6	19.8	860	20.64	65000	1	61.5
FD481238LB	2B		24~56.0	2000	89.5	3.9	120	5.76	80000	7	36.0
FD481238MB	2B		24~56.0	2400	107.0	5.8	140	6.72	80000	6	41.0
FD481238HB	2B		24~56.0	2800	125.5	7.6	180	8.64	75000	5	45.0
FD481238EB	2B		24~56.0	3000	135.0	8.6	210	10.08	65000	4	47.0
FD481238EB	2B	48	24~56.0	3500	161.1	10.4	240	11.52	65000	3	55.5
FD481238EB	2B		24~56.0	4100	189.2	15.1	340	16.32	65000	2	59.0
FD481238UB	2B		24~56.0	4600	212.6	19.8	470	22.56	60000	1	61.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

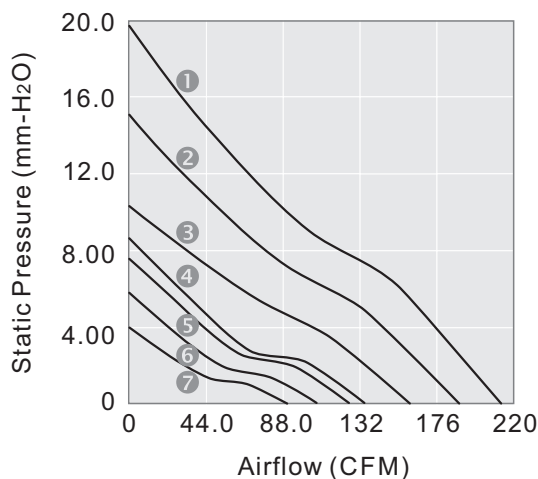
Voltage Available

Bearing System Available

05 12 24 48

2B L S

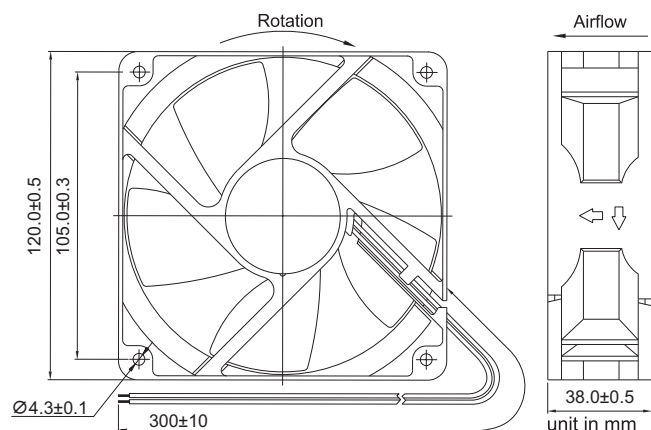
PERFORMANCE P-Q CURVE



Function Available

N A I F R Q S T M V C P D W U

OUTLINE DIMENSIONS



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120x120x38mm

- Airflow: 77.9~200.7 CFM
- Static Pressure: 3.6~20.6mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 276 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121238LB-Q	2B	12	7~13.2	2000	77.9	3.6	150	1.80	80000	4	31.4
FD121238MB-Q	2B		7~13.2	3000	115.3	7.4	330	3.96	80000	3	43.3
FD121238HB-Q	2B		7~13.2	4000	158.1	13.3	750	9.00	75000	2	52.0
FD121238EB-Q	2B		7~13.2	5000	200.7	20.6	1600	19.20	65000	1	57.4
FD241238LB-Q	2B	24	12~26.4	2000	77.9	3.6	100	2.40	80000	4	31.4
FD241238MB-Q	2B		12~26.4	3000	115.3	7.4	200	4.80	80000	3	43.3
FD241238HB-Q	2B		12~26.4	4000	158.1	13.3	360	8.64	75000	2	52.0
FD241238EB-Q	2B		12~26.4	5000	200.7	20.6	750	18.00	65000	1	57.4
FD481238LB-Q	2B	48	24~56.0	2000	77.9	3.6	70	3.36	80000	4	31.4
FD481238MB-Q	2B		24~56.0	3000	115.3	7.4	120	5.76	80000	3	43.3
FD481238HB-Q	2B		24~56.0	4000	158.1	13.3	200	9.60	75000	2	52.0
FD481238EB-Q	2B		24~56.0	5000	200.7	20.6	380	18.24	65000	1	57.4

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

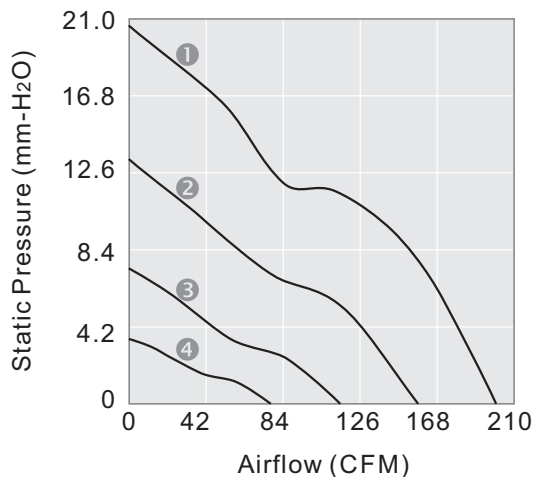
Bearing System Available

2B L S

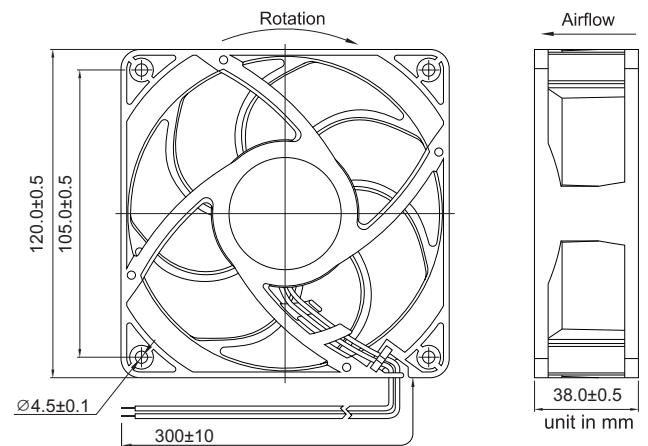
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

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119x119x38.5mm

- Airflow: 88.0~174.7 CFM
- Static Pressure: 8.4~28.9 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 250.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121238LB-R	2B	12	7~13.2	2800	88.0	8.4	270	3.24	80000	6	45.5
FD121238MB-R	2B		7~13.2	3200	100.9	10.5	380	4.56	80000	5	47.0
FD121238HB-R	2B		7~13.2	3600	113.9	13.0	520	6.24	75000	4	51.0
FD121238EB-R	2B		7~13.2	4000	127.0	16.0	730	8.76	65000	3	55.0
FD121238EB-R	2B		7~13.2	4500	142.0	20.0	980	11.76	65000	2	58.5
FD241238LB-R	2B	24	12~26.4	2800	88.0	8.4	145	3.48	80000	6	45.5
FD241238MB-R	2B		12~26.4	3200	100.9	10.5	195	4.68	80000	5	47.0
FD241238HB-R	2B		12~26.4	3600	113.9	13.0	270	6.48	75000	4	51.0
FD241238EB-R	2B		12~26.4	4000	127.0	16.0	370	8.88	65000	3	55.0
FD241238EB-R	2B		12~26.4	4500	142.0	20.0	520	12.48	65000	2	58.5
FD481238LB-R	2B	48	24~56.0	2800	88.0	8.4	100	4.80	80000	6	45.5
FD481238MB-R	2B		24~56.0	3200	100.9	10.5	130	6.24	80000	5	47.0
FD481238HB-R	2B		24~56.0	3600	113.9	13.0	170	8.16	75000	4	51.0
FD481238EB-R	2B		24~56.0	4000	127.0	16.0	200	9.60	65000	3	55.0
FD481238EB-R	2B		24~56.0	4500	142.0	20.0	270	12.96	65000	2	58.5
FD481238EB-R	2B		24~56.0	5500	174.7	28.9	560	26.88	65000	1	65.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

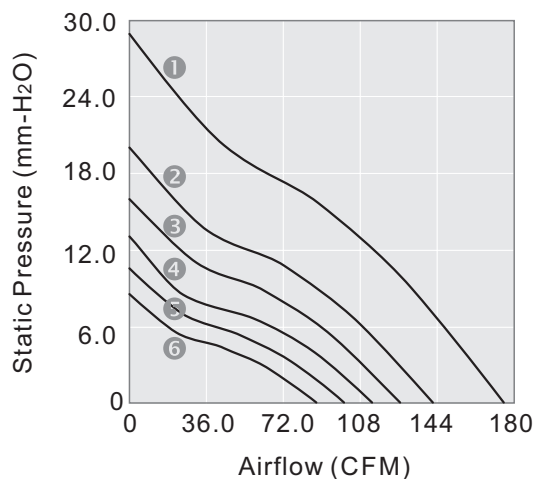
Bearing System Available

2B L S

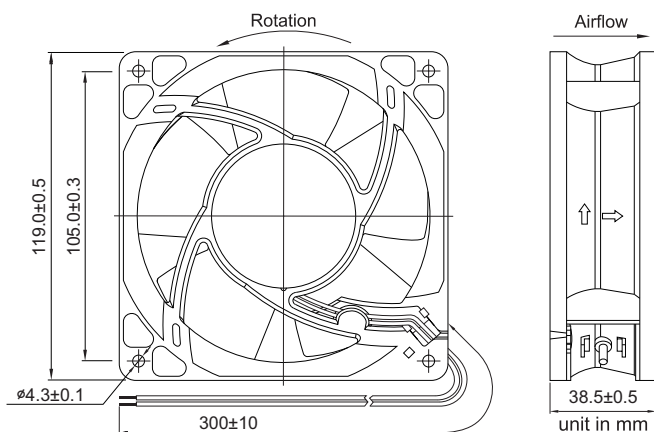
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x38mm

- Airflow: 155.8~275.9 CFM
- Static Pressure: 19.3~60.4 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 425 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121238LB-E	2B	12	7~13.2	4000	155.8	19.3	1200	14.40	80000	4	54.0
FD121238MB-E	2B		7~13.2	5000	194.0	30.8	2200	26.40	75000	3	60.4
FD121238HB-E	2B		7~13.2	6000	236.4	48.1	3500	42.00	65000	2	64.9
FD241238LB-E	2B	24	12~30.0	4000	155.8	19.3	680	16.32	80000	4	54.0
FD241238MB-E	2B		12~30.0	5000	194.0	30.8	950	22.80	75000	3	60.4
FD241238HB-E	2B		12~30.0	6000	235.4	41.5	1700	40.80	65000	2	64.9
FD241238EB-E	2B	48	12~30.0	7000	275.9	60.4	2700	64.80	65000	1	69.2
FD481238LB-E	2B		35~60.0	4000	155.8	19.3	370	17.76	80000	4	54.0
FD481238MB-E	2B		35~60.0	5000	194.0	30.8	550	26.40	75000	3	60.4
FD481238HB-E	2B	48	35~60.0	6000	235.4	41.5	800	38.40	65000	2	64.9
FD481238EB-E	2B		35~60.0	7000	275.9	60.4	1300	62.40	65000	1	69.2

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

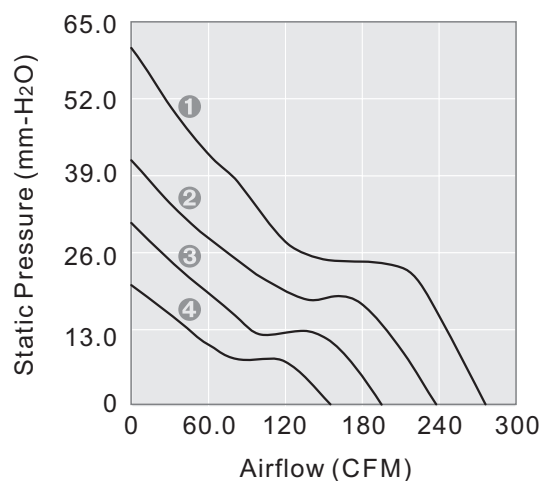
Bearing System Available

2B L S

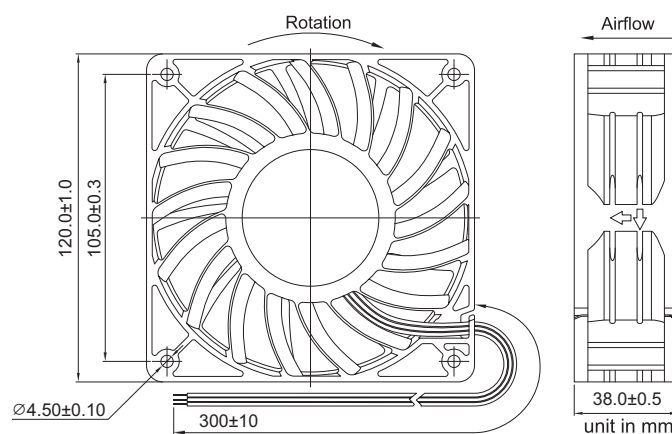
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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140x140x25mm

- Airflow: 62.1~115.3 CFM
- Static Pressure: 1.3~4.0mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1061 #24 AWG
- Weight: 182g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD121425LL-N	L	12	7~13.2	1050	62.1	1.3	70	0.84	50000	3	21.7
FD121425ML-N	L		7~13.2	1450	87.1	2.5	170	2.04	50000	2	31.6
FD121425HL-N	L		7~13.2	1850	115.3	4.0	370	4.44	50000	1	40.6
FD121425LB-N	2B		7~13.2	1050	62.1	1.3	70	0.84	80000	3	21.7
FD121425MB-N	2B		7~13.2	1450	87.1	2.5	170	2.04	80000	2	31.6
FD121425HB-N	2B		7~13.2	1850	115.3	4.0	370	4.44	75000	1	40.6

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

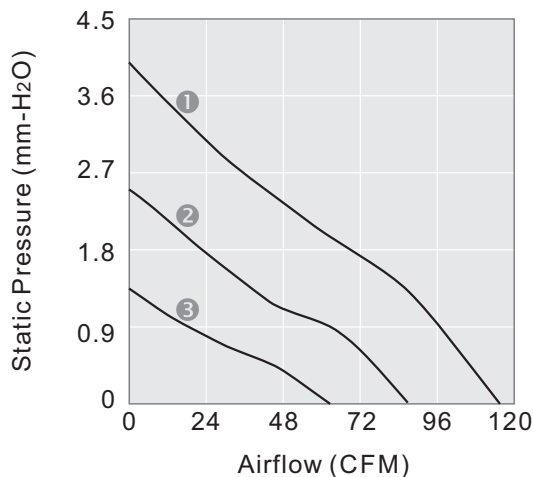
Bearing System Available

2B L S

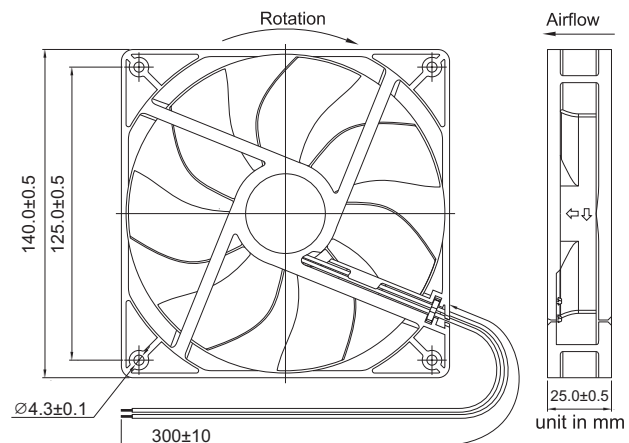
Function Available

N A T F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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172x150x51mm

- Airflow: 247.5~464.0 CFM
- Static Pressure: 16.7~52.0 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.P.O.
Frame: Die-Casting Aluminum
- Lead Wire: UL1007 #22 AWG
- Weight: 1080 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD121751LB	2B	12	7~13.2	3000	247.5	16.7	1800	21.60	80000	6	57.2
FD121751MB	2B		7~13.2	3500	294.4	23.7	2800	33.60	80000	5	62.1
FD241751LB	2B		12~26.4	3000	247.5	16.7	850	20.40	80000	6	57.2
FD241751MB	2B	24	12~26.4	3500	294.4	23.7	1250	30.00	80000	5	62.1
FD241751HB	2B		12~26.4	4000	335.4	29.8	1850	40.40	75000	4	63.0
FD241751EB	2B		12~26.4	4500	379.7	37.1	2700	64.80	65000	3	67.3
FD481751LB	2B	48	24~56.0	3000	247.5	16.7	440	21.12	80000	6	57.2
FD481751MB	2B		24~56.0	3500	294.4	23.7	650	31.20	80000	5	62.1
FD481751HB	2B		24~56.0	4000	335.4	29.8	950	45.60	75000	4	63.0
FD481751EB	2B		24~56.0	4500	379.7	37.1	1250	60.00	65000	3	67.3
FD481751EB	2B		24~56.0	5000	419.9	46.3	1650	79.20	65000	2	71.1
FD481751EB	2B		24~56.0	5500	464.0	52.0	2400	115.2	65000	1	73.1

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

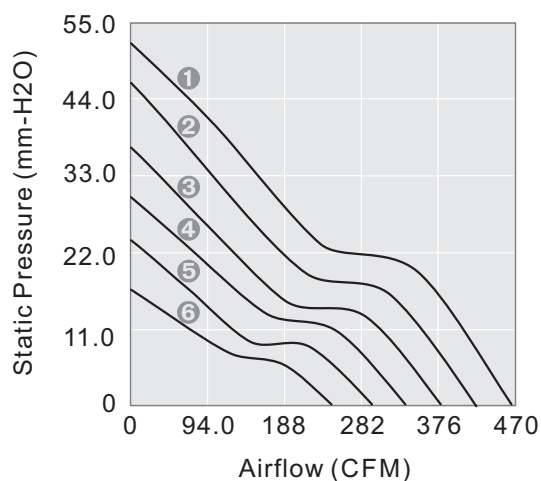
Bearing System Available

2B L S

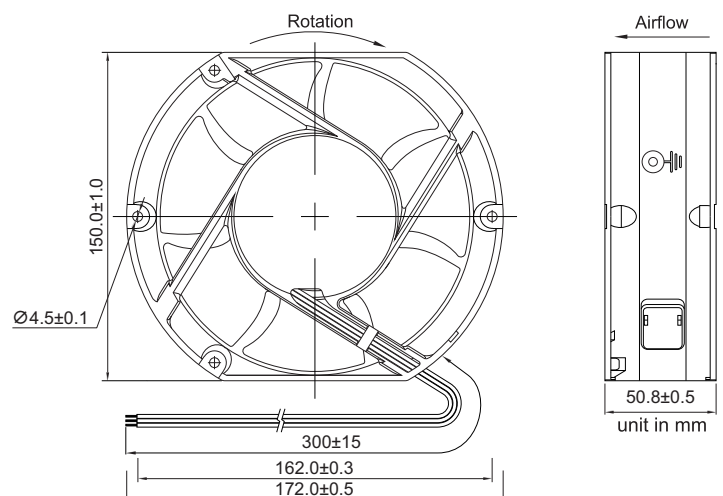
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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50x50x15mm

- Airflow: 3.9~6.3 CFM
- Static Pressure: 12.0~26.2 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 28 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
BD055115LB	2B	05	4~5.5	4500	3.9	12.0	170	0.85	80000	4	37.5
BD055115MB	2B		4~5.5	5500	4.7	16.2	350	1.75	80000	3	42.0
BD125115LB	2B		7~13.2	4500	3.9	12.0	95	1.14	80000	4	37.5
BD125115MB	2B		7~13.2	5500	4.7	16.2	160	1.92	80000	3	42.0
BD125115HB	2B	12	7~13.2	6500	5.5	20.9	230	2.76	75000	2	45.5
BD125115EB	2B		7~13.2	7500	6.3	26.2	290	3.48	65000	1	48.5
BD125115LL	L		7~13.2	4500	3.9	12.0	100	1.20	50000	4	37.5
BD125115ML	L		7~13.2	5500	4.7	16.2	150	1.80	50000	3	42.0
BD125115HL	L		7~13.2	6500	5.5	20.9	220	2.64	50000	2	45.5
BD125115EL	L		7~13.2	7500	6.3	26.2	290	3.48	50000	1	48.5
BD245115LB	2B	24	12~26.4	4500	3.9	12.0	60	1.44	80000	4	37.5
BD245115MB	2B		12~26.4	5500	4.7	16.2	85	2.04	80000	3	42.0
BD245115HB	2B		12~26.4	6500	5.5	20.9	120	2.88	75000	2	45.5
BD245115EB	2B		12~26.4	7500	6.3	26.2	180	4.32	65000	1	48.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

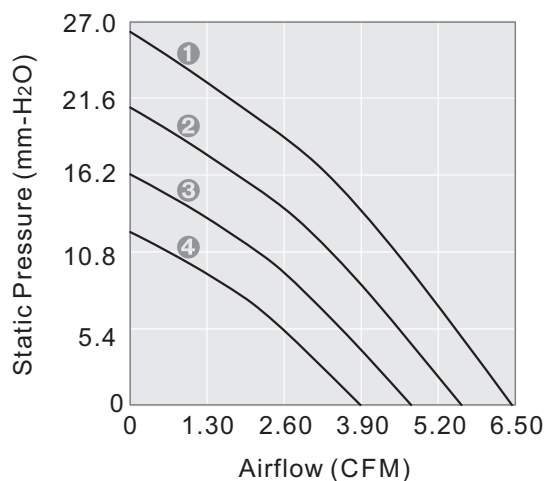
Bearing System Available

2B L S

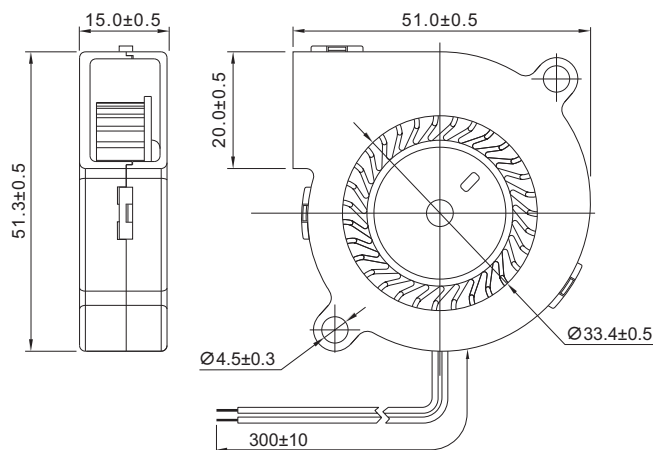
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x18mm

- **Airflow: 6.7~8.2 CFM**
- **Static Pressure: 17.6~22.0 mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 41 g**

[illegible]

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

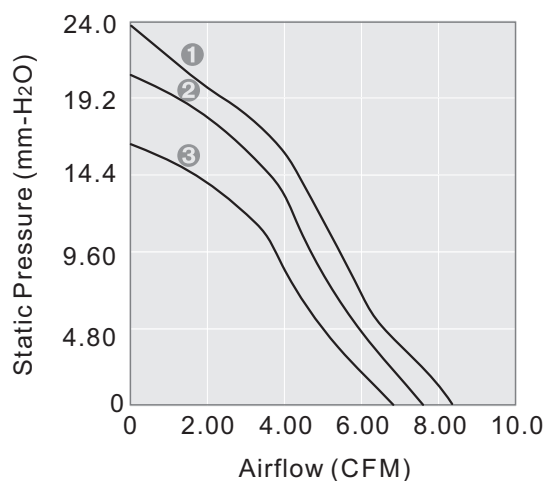
Bearing System Available

2B L S

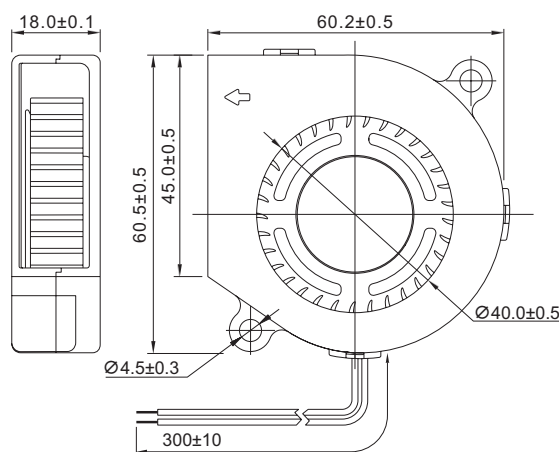
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x25mm

- Airflow: 6.5~10.6 CFM
- Static Pressure: 6.1~15.3 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 63.6 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
BD126025LB	2B	12	7~13.2	3000	6.5	6.1	110	1.32	80000	3	31.5
BD126025MB	2B		7~13.2	3700	8.1	8.4	180	2.16	80000	2	35.8
BD126025HB	2B		7~13.2	4500	10.6	15.3	230	2.76	75000	1	41.0
BD246025LB	2B	24	12~26.4	3000	6.5	6.1	45	1.08	80000	3	31.5
BD246025MB	2B		12~26.4	3700	8.1	8.4	70	1.68	80000	2	35.8
BD246025HB	2B		12~26.4	4500	10.6	15.3	110	2.64	75000	1	41.5

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05122448

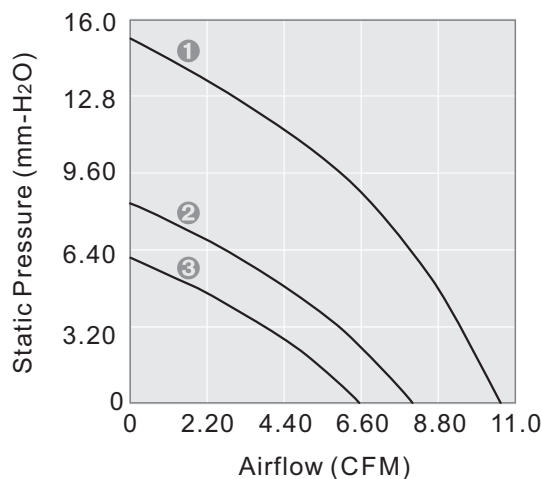
Bearing System Available

2B L S

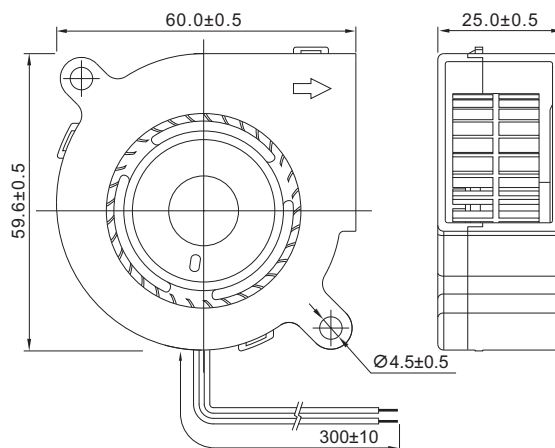
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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75x75x30mm

- Airflow: 9.7~17.3 CFM
- Static Pressure: 5.5~21.8 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #26 AWG
- Weight: 88.9 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
BD127530LB	2B	12	7~13.2	2400	9.7	5.5	110	1.32	80000	5	37.0
BD127530MB	2B		7~13.2	3000	12.2	10.3	190	2.28	80000	4	42.0
BD127530HB	2B		7~13.2	3400	14.0	13.7	270	3.24	75000	3	44.5
BD127530EB	2B		7~13.2	4000	16.5	20.3	360	4.32	65000	2	48.0
BD127530EB	2B		7~13.2	4200	17.3	21.8	430	5.16	65000	1	49.5
BD127530LS	S		7~13.2	2300	9.3	5.1	180	2.16	30000	5	36.0
BD127530MS	S		7~13.2	2900	11.8	9.8	210	2.52	30000	4	41.0
BD127530HS	S		7~13.2	3300	13.6	13.1	300	3.60	25000	3	43.5
BD247530LB	2B	24	12~26.4	2400	9.7	5.5	60	1.44	80000	5	37.0
BD247530MB	2B		12~26.4	3000	12.2	10.3	110	2.64	80000	4	42.0
BD247530HB	2B		12~26.4	3400	14.0	13.7	150	3.60	75000	3	44.5
BD247530EB	2B		12~26.4	4000	16.5	20.3	200	4.80	65000	2	48.0
BD247530LS	S		12~26.4	2400	9.7	5.5	110	2.64	30000	5	37.0
BD247530MS	S		12~26.4	3000	12.2	10.3	150	3.60	30000	4	42.0
BD247530HS	S		12~26.4	3400	14.0	13.7	190	4.56	25000	3	44.5
BD247530ES	S		12~26.4	4000	16.5	20.3	200	4.80	20000	2	48.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

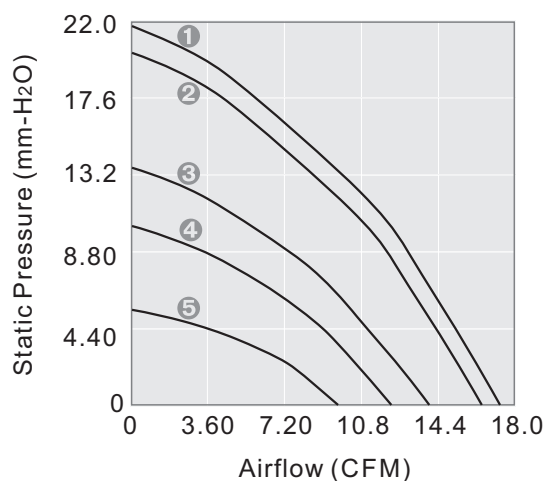
Bearing System Available

2B L S

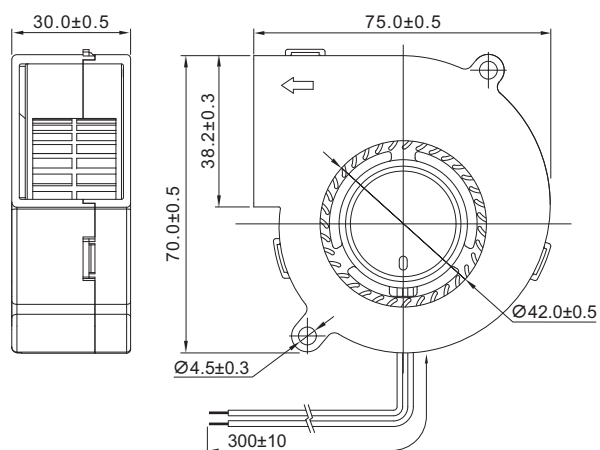
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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97x97x33mm

- Airflow: 25.6~32.4 CFM
- Static Pressure: 22.1~28.1 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 156.7 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
BD129733LB	2B	12	7~13.2	2600	25.6	22.1	400	4.80	80000	6	40.0
BD129733MB	2B		7~13.2	2900	28.5	24.7	480	5.76	80000	5	42.5
BD129733HB	2B		7~13.2	3300	32.4	28.1	740	8.88	75000	4	48.5
BD129733EB	2B		7~13.2	3700	34.2	29.4	850	10.20	65000	3	53.0
BD129733UB	2B		7~13.2	4500	42.6	56.0	1400	16.80	65000	2	58.0
BD249733LB	2B	24	12~26.4	2600	25.6	22.1	210	5.04	80000	6	40.0
BD249733MB	2B		12~26.4	2900	28.5	24.7	280	6.72	80000	5	42.5
BD249733HB	2B		12~26.4	3300	32.4	28.1	420	10.08	75000	4	48.5
BD249733EB	2B		12~26.4	3700	34.2	29.4	400	9.60	65000	3	53.0
BD249733UB	2B		12~26.4	4500	42.6	56.0	680	16.32	65000	2	58.0
BD249733SB	2B		12~26.4	5300	48.9	81.5	1300	31.20	60000	1	62.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

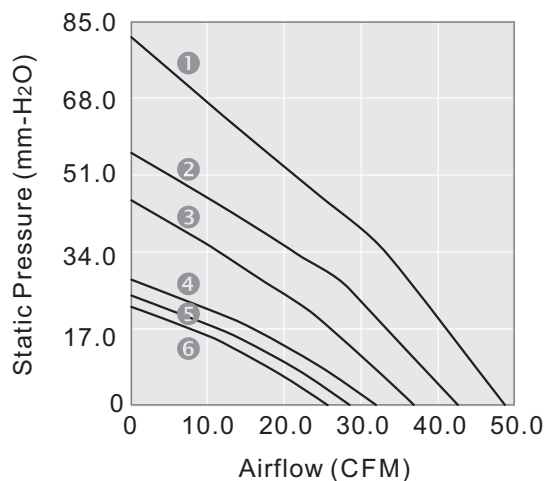
Bearing System Available

2B L S

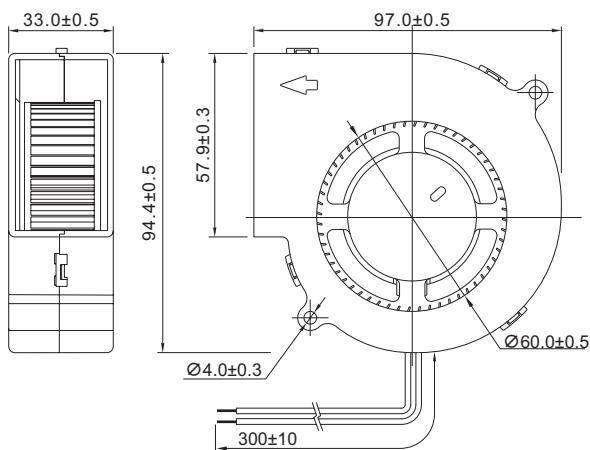
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

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97x97x33mm

- Airflow: 37.8~58.4CFM
- Static Pressure: 34.7~139.6mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 200.0 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
BD129733LB-N	2B	12	7~13.2	4500	37.8	34.7	900	10.80	80000	5	54.8
BD129733MB-N	2B		7~13.2	4850	40.7	44.1	1200	14.40	80000	4	56.7
BD129733HB-N	2B		7~13.2	5250	44.8	55.8	1600	19.20	75000	3	58.4
BD129733EB-N	2B		7~13.2	5750	48.2	86.6	2700	32.40	65000	2	60.6
BD129733UB-N	2B		7~13.2	6850	58.4	139.6	4200	50.40	65000	1	64.8
BD249733LB-N	2B	24	12~26.4	4500	37.8	34.7	500	12.00	80000	5	54.8
BD249733MB-N	2B		12~26.4	4850	40.7	44.1	600	14.40	80000	4	56.7
BD249733HB-N	2B		12~26.4	5250	44.8	55.8	800	19.20	75000	3	58.4
BD249733EB-N	2B		12~26.4	5750	48.2	86.6	1200	28.80	65000	2	60.6
BD249733UB-N	2B		12~26.4	6850	58.4	139.6	2000	48.00	65000	1	64.8

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

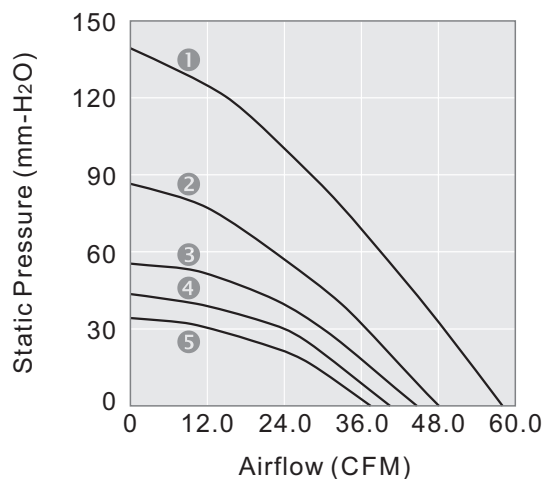
Bearing System Available

2B L S

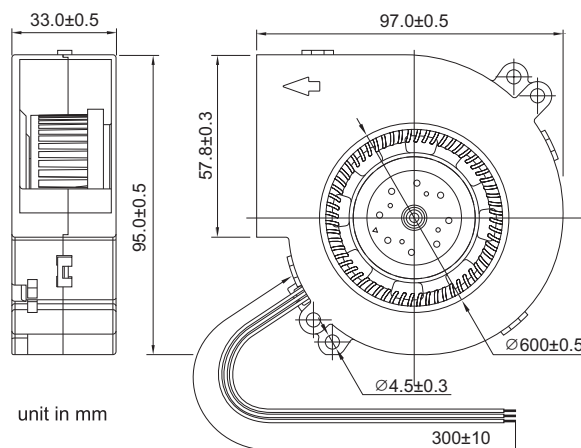
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x32mm

- Airflow: 23.0~47.5 CFM
- Static Pressure: 8.0~41.7 mm-H₂O
- Blade / Housing:
Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 258.5 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
BD121232LB	2B	12	7~13.2	1700	23.0	8.0	150	1.80	80000	5	42.5
BD121232MB	2B		7~13.2	2100	29.5	13.8	250	3.00	80000	4	49.5
BD121232HB	2B		7~13.2	2600	37.2	24.7	700	8.40	75000	3	57.0
BD121232EB	2B		7~13.2	2900	41.4	29.0	900	10.80	65000	2	59.0
BD121232UB	2B		7~13.2	3500	47.5	41.7	1500	18.00	65000	1	62.0
BD241232LB	2B	24	12~26.4	1700	23.0	8.0	120	2.88	80000	5	42.5
BD241232MB	2B		12~26.4	2100	29.5	13.8	180	4.32	80000	4	49.5
BD241232HB	2B		12~26.4	2600	37.2	24.7	260	6.24	75000	3	57.0
BD241232EB	2B		12~26.4	2900	41.4	29.0	450	10.80	65000	2	59.0
BD241232UB	2B		12~26.4	3500	47.5	41.7	830	19.92	65000	1	62.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

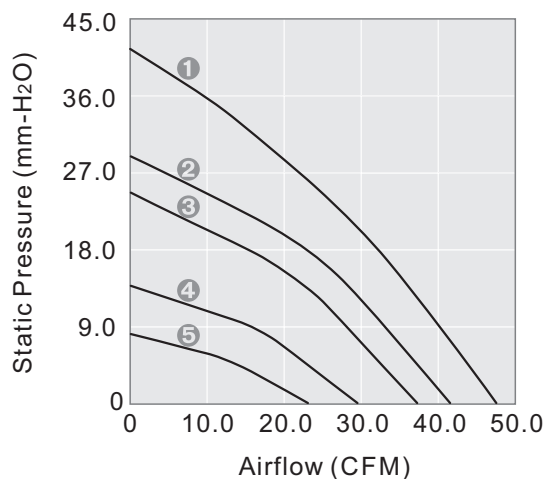
Bearing System Available

2B L S

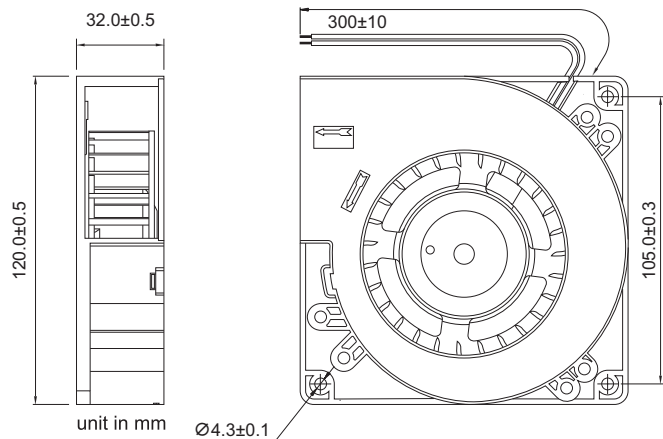
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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79.6x78.2x24.3mm

- **Airflow: 13.69CFM**
- **Static Pressure: 45.97mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0
- **Lead Wire: UL1569 #22 AWG**
- **Weight: 80.0 g**

[illegible]

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

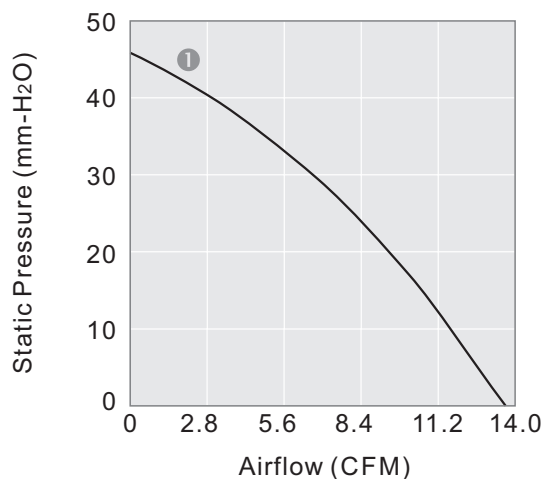
Bearing System Available

2B L S

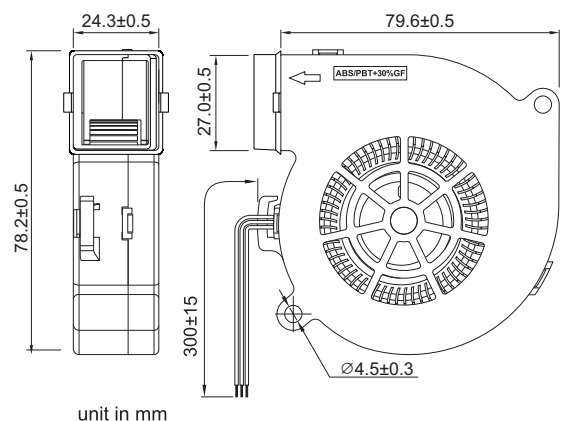
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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100x98x25mm

- **Airflow: 21.4CFM**
- **Static Pressure: 34.8mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0
- **Lead Wire: UL1569 #22 AWG**
- **Weight: 120.0 g**

[illegible]

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

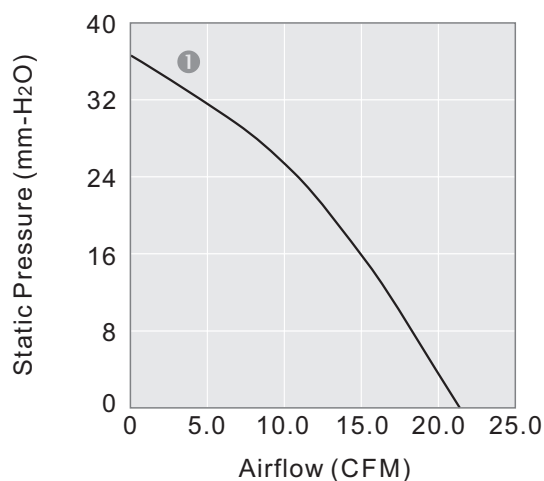
Bearing System Available

2B L S

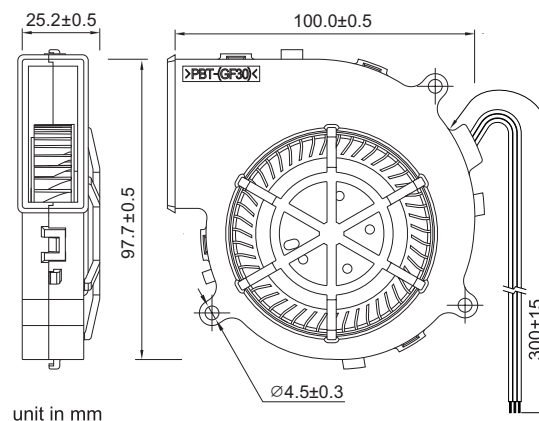
Function Available

N A I F R Q S T M V C P D W U

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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110x112x25mm

- **Airflow: 26.4CFM**
- **Static Pressure: 53.5mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0
- **Lead Wire: UL1569 #22 AWG**
- **Weight: 120.0 g**

[illegible]

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available

05 12 24 48

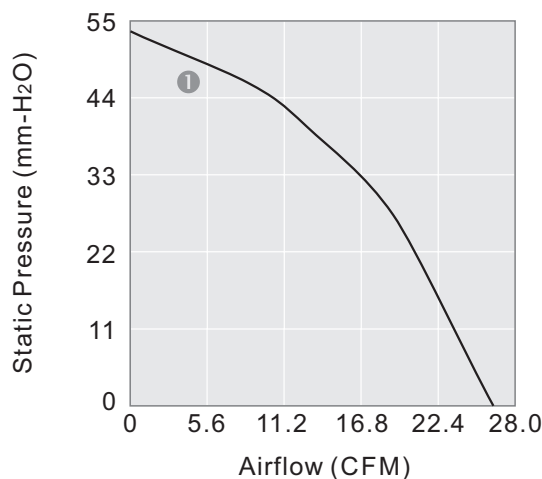
Bearing System Available

2B L S

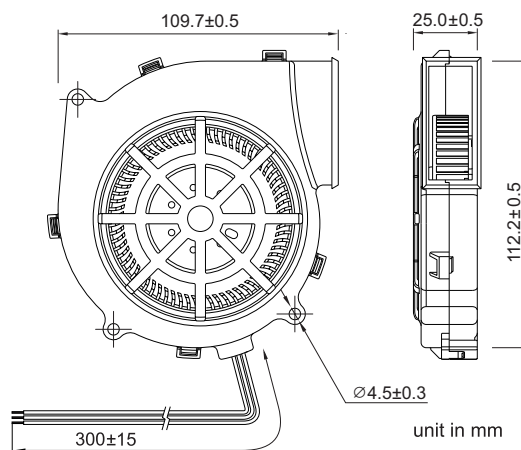
Function Available

N	A	I	F	R	Q	S	T	M	V	C	P	D	W	U
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PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x25mm

- Airflow: 38.6~55.1 CFM
- Static Pressure: 3.9~6.6 mm-H₂O
- Blade:
Plastic Material UL 94V-0 P.B.T.
- Frame: Die-Casting Aluminum /
Plastic Material UL 94V-0 P.P.S.
- Weight: 138 /108 g

	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
Model No.	VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour			
FV18025LBA	2B	110	50/60	2800/3200	38.6/44.1	3.9/4.4	0.11/0.13	1.90/2.40	50000	4/3	34.0/38.5
FV18025MBA	2B		50/60	3200/3600	44.1/49.6	4.4/5.7	0.15/0.17	2.80/3.60	50000	3/2	38.5/42.0
FV18025HBA	2B		50/60	3600/4000	49.6/55.1	5.7/6.6	0.16/0.19	3.40/4.30	50000	2/1	42.0/45.5
FV28025LBA	2B	220	50/60	2800/3200	38.6/44.1	3.9/4.4	0.11/0.13	2.80/3.40	50000	4/3	34.0/38.5
FV28025MBA	2B		50/60	3200/3600	44.1/49.6	4.4/5.7	0.14/0.17	3.80/4.80	50000	3/2	38.5/42.0
FV28025HBA	2B		50/60	3600/4000	49.6/55.1	5.7/6.6	0.15/0.18	4.30/5.30	50000	2/1	42.0/45.5

2B: 2-ball bearing S: sleeve bearing

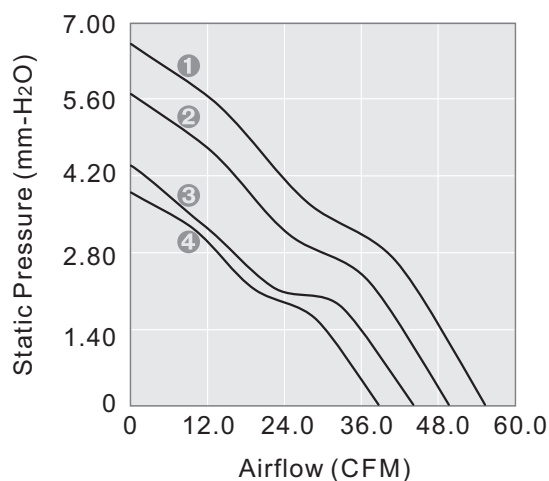
Voltage Available

115 230

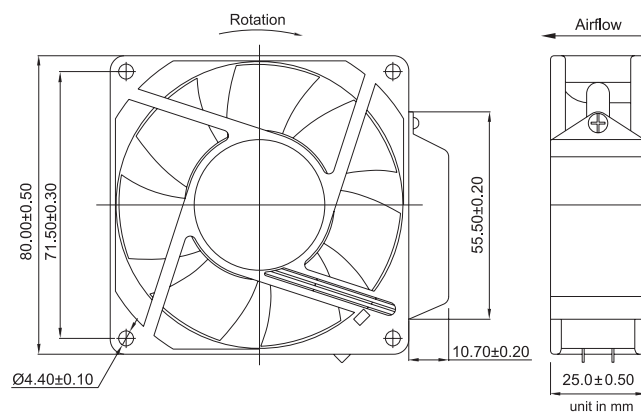
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x26mm

- Airflow: 14.5~18.3 CFM
- Static Pressure: 3.31~5.16 mm-H₂O
- Blade: Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 260 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA108025HST-T S	S	115	50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	20000	①/②	28.2/35.0
FA108025HSL-T S	S		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	20000	①/②	28.2/35.0
FA108025HBT-T 2B	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	60000	①/②	28.2/35.0
FA108025HBL-T 2B	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	60000	①/②	28.2/35.0
FA208025HST-T S	S	230	50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	20000	①/②	28.2/35.0
FA208025HSL-T S	S		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	20000	①/②	28.2/35.0
FA208025HBT-T 2B	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	60000	①/②	28.2/35.0
FA208025HBL-T 2B	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	60000	①/②	28.2/35.0

2B: 2-ball bearing S: sleeve bearing

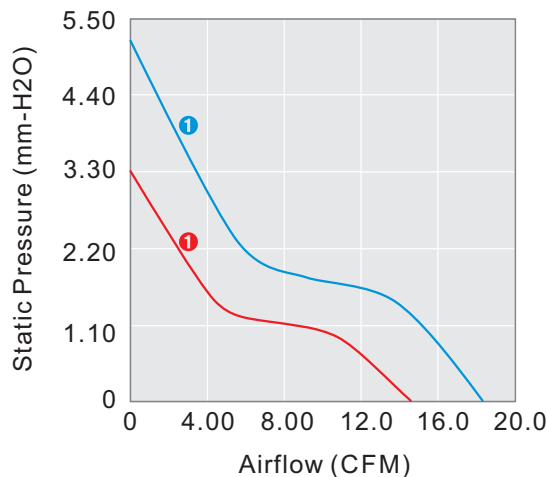
Voltage Available

115 230

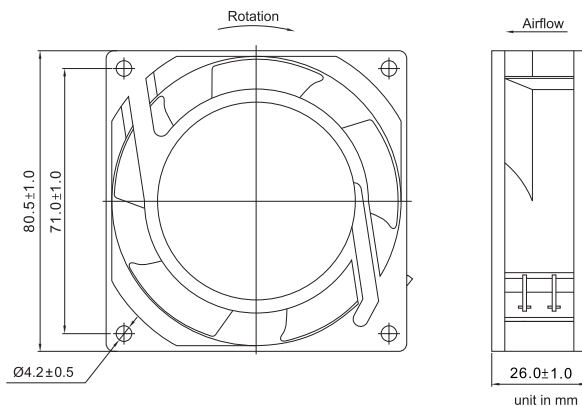
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x38mm

- Airflow: 16.7~24.3 CFM
- Static Pressure: 2.88~6.29 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 370 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA108038HST-T S	S	115	50/60	2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	20000	①/①	29.9/37.2
FA108038HSL-T S	S			2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	20000	①/①	29.9/37.2
FA108038MBT-T 2B	2B			2100/2300	16.7/18.8	2.88/3.35	0.07/0.06	11.0/ 9.0	60000	②/②	26.2/29.2
FA108038MBL-T 2B	2B			2100/2300	16.7/18.8	2.88/3.35	0.07/0.06	11.0/ 9.0	60000	②/②	26.2/29.2
FA108038HBT-T 2B	2B			2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	60000	①/①	29.9/37.2
FA108038HBL-T 2B	2B			2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	60000	①/①	29.9/37.2
FA208038HST-T S	S	230	50/60	2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	20000	①/①	29.9/37.2
FA208038HSL-T S	S			2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	20000	①/①	29.9/37.2
FA208038MBT-T 2B	2B			2100/2300	16.7/18.8	2.88/3.35	0.05/0.04	11.0/ 9.0	60000	②/②	26.2/29.2
FA208038MBL-T 2B	2B			2100/2300	16.7/18.8	2.88/3.35	0.05/0.04	11.0/ 9.0	60000	②/②	26.2/29.2
FA208038HBT-T 2B	2B			2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	60000	①/①	29.9/37.2
FA208038HBL-T 2B	2B			2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	60000	①/①	29.9/37.2

2B: 2-ball bearing S: sleeve bearing

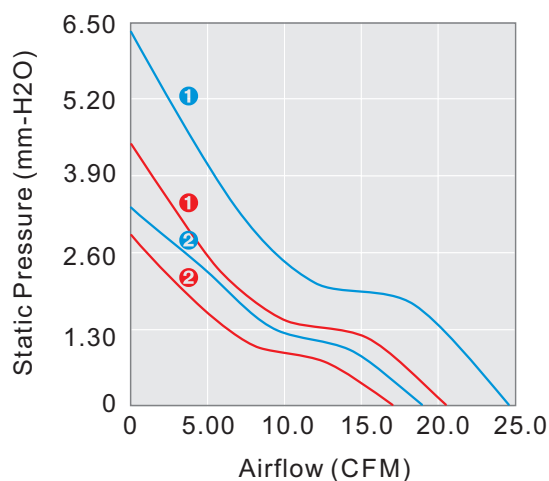
Voltage Available

115 230

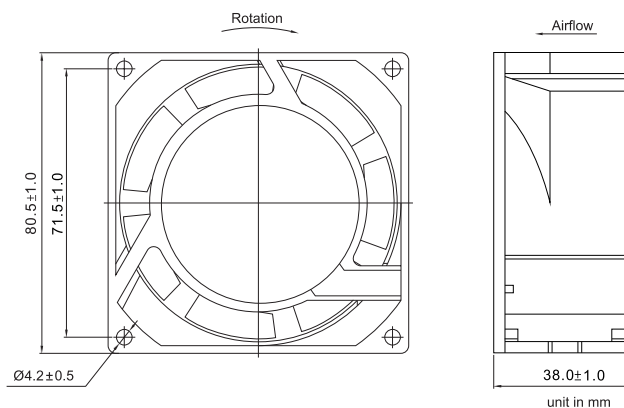
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25.5mm

- Airflow: 17.3~32.0 CFM
- Static Pressure: 1.39~5.70 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 260 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA109225HST-T S	S	115	50/60	2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	20000	①/①	31.7/39.1
FA109225HSL-T S	S		50/60	2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	20000	①/①	31.7/39.1
FA109225LBT-T 2B	2B		50/60	1600/1800	17.3/18.3	1.39/1.42	0.07/0.06	7.0/6.0	60000	③/③	26.5/27.0
FA109225LBL-T 2B	2B		50/60	1600/1800	17.3/18.3	1.39/1.42	0.07/0.06	7.0/6.0	60000	③/③	26.5/27.0
FA109225MBT-T 2B	2B		50/60	2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	②/②	28.6/32.0
FA109225MBL-T 2B	2B		50/60	2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	②/②	28.6/32.0
FA109225HBT-T 2B	2B		50/60	2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	60000	①/①	31.7/39.1
FA109225HBL-T 2B	2B		50/60	2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	60000	①/①	31.7/39.1
FA209225HST-T S	S	230	50/60	2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	20000	①/①	31.7/39.1
FA209225HSL-T S	S		50/60	2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	20000	①/①	31.7/39.1
FA209225LBT-T 2B	2B		50/60	1600/1800	17.3/18.3	1.39/1.42	0.05/0.04	7.0/6.0	60000	③/③	26.5/27.0
FA209225LBL-T 2B	2B		50/60	1600/1800	17.3/18.3	1.39/1.42	0.05/0.04	7.0/6.0	60000	③/③	26.5/27.0
FA209225MBT-T 2B	2B		50/60	2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	②/②	28.6/32.0
FA209225MBL-T 2B	2B		50/60	2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	②/②	28.6/32.0
FA209225HBT-T 2B	2B		50/60	2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	60000	①/①	31.7/39.1
FA209225HBL-T 2B	2B		50/60	2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	60000	①/①	31.7/39.1

2B: 2-ball bearing S: sleeve bearing

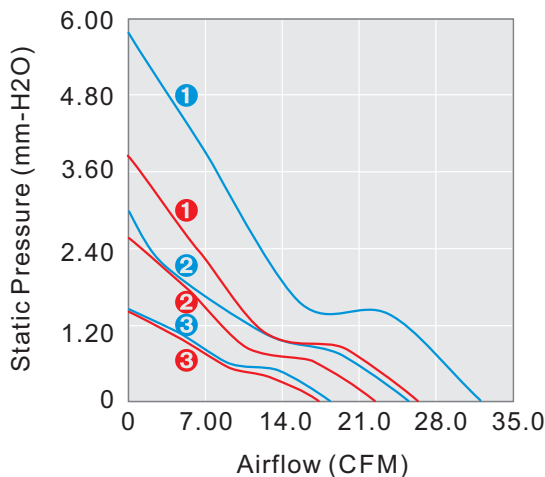
Voltage Available

115 230

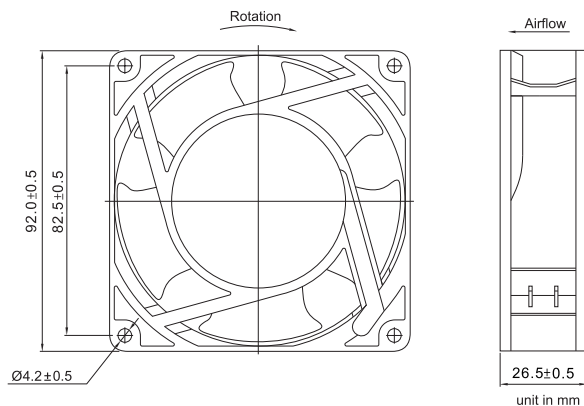
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x38.0mm

- Airflow: 34.0~47.0 CFM
- Static Pressure: 2.20~6.00 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 450 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA109238HST-T	S		50/60	2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	20000	1/1	36.0/41.0
FA109238HSL-T	S		50/60	2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	20000	1/1	36.0/41.0
FA109238LBT-T	2B		50/60	1900/1800	36/34	3.20/2.20	0.05/0.04	7.0/5.0	60000	3/3	30.2/27.8
FA109238LBL-T	2B		50/60	1900/1800	36/34	3.20/2.20	0.05/0.04	7.0/5.0	60000	3/3	30.2/27.8
FA109238MBT-T	2B		50/60	2200/2400	38/40	3.88/3.78	0.07/0.06	11.0/9.0	60000	2/2	32.9/35.3
FA109238MBL-T	2B		50/60	2200/2400	38/40	3.88/3.78	0.07/0.06	11.0/9.0	60000	2/2	32.9/35.3
FA109238HBT-T	2B		50/60	2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	60000	1/1	36.0/41.0
FA109238HBL-T	2B		50/60	2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	60000	1/1	36.0/41.0
FA209238HST-T	S		50/60	2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	1/1	36.0/41.0
FA209238HSL-T	S		50/60	2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	1/1	36.0/41.0
FA209238HBT-T	2B		50/60	2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	1/1	36.0/41.0
FA209238HBL-T	2B		50/60	2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	1/1	36.0/41.0

2B: 2-ball bearing S: sleeve bearing

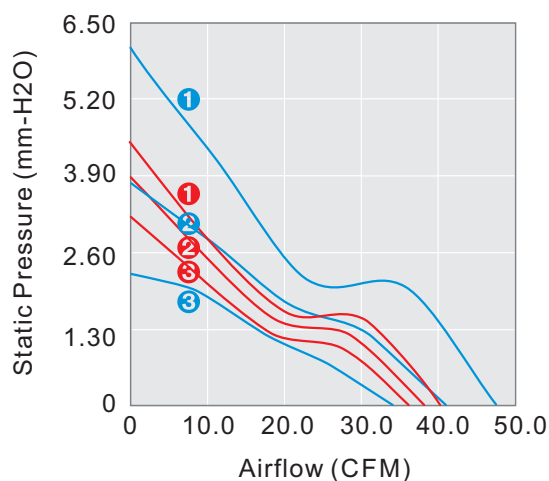
Voltage Available

115 230

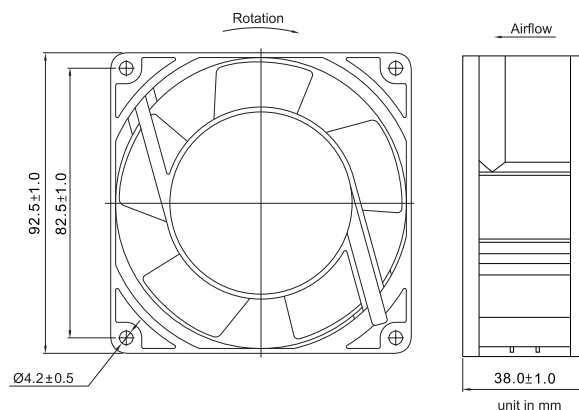
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x25.5mm

- Airflow: 43.2~67.27 CFM
- Static Pressure: 1.5~6.2 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 390 g

Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H ₂ O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
FA112025HST-T S	S	115	50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	1/1	44.5/48.2
FA112025HSL-T S	S	115	50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	1/1	44.5/48.2
FA112025LBT-T 2B	2B	115	50/60	1800/1600	47.1/43.2	2.30/1.50	0.06/0.05	8.0/6.0	60000	3/3	36.7/35.0
FA112025LBL-T 2B	2B	115	50/60	1800/1600	47.1/43.2	2.30/1.50	0.06/0.05	8.0/6.0	60000	3/3	36.7/35.0
FA112025MBT-T 2B	2B	115	50/60	2200/2300	53.8/57.8	3.99/3.77	0.09/0.08	12.0/10.0	60000	2/2	43.0/45.0
FA112025MBL-T 2B	2B	115	50/60	2200/2300	53.8/57.8	3.99/3.77	0.09/0.08	12.0/10.0	60000	2/2	43.0/45.0
FA112025HBT-T 2B	2B	115	50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	1/1	44.5/48.2
FA112025HBL-T 2B	2B	115	50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	1/1	44.5/48.2
FA212025HST-T S	S	230	50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	1/1	44.5/48.2
FA212025HSL-T S	S	230	50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	1/1	44.5/48.2
FA212025LBT-T 2B	2B	230	50/60	1800/1600	47.1/43.2	2.30/1.50	0.05/0.04	8.0/6.0	60000	3/3	36.7/35.0
FA212025LBL-T 2B	2B	230	50/60	1800/1600	47.1/43.2	2.30/1.50	0.05/0.04	8.0/6.0	60000	3/3	36.7/35.0
FA212025MBT-T 2B	2B	230	50/60	2200/2300	53.8/57.8	3.99/3.77	0.06/0.05	12.0/10.0	60000	2/2	43.0/45.0
FA212025MBL-T 2B	2B	230	50/60	2200/2300	53.8/57.8	3.99/3.77	0.06/0.05	12.0/10.0	60000	2/2	43.0/45.0
FA212025HBT-T 2B	2B	230	50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	1/1	44.5/48.2
FA212025HBL-T 2B	2B	230	50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	1/1	44.5/48.2

2B: 2-ball bearing S: sleeve bearing

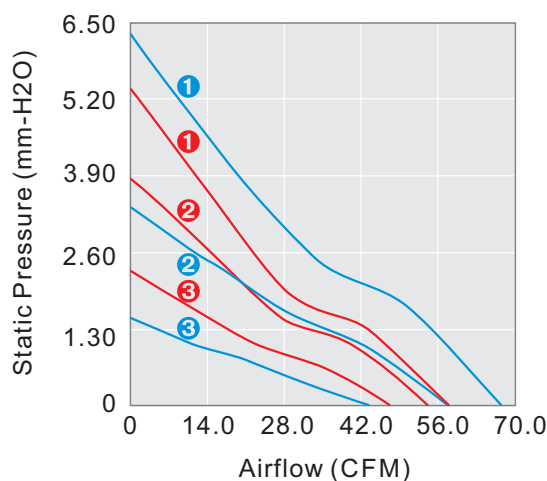
Voltage Available

115 230

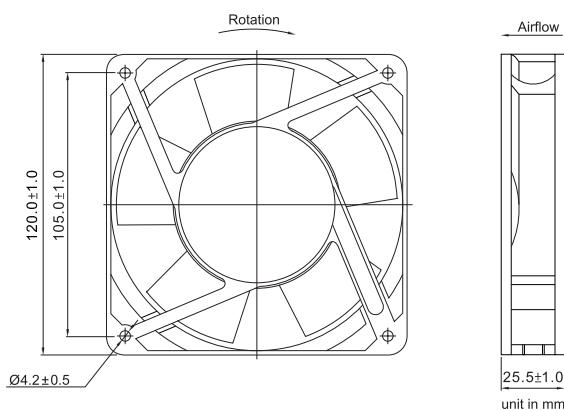
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x38mm

- Airflow: 65.0~108.0 CFM
- Static Pressure: 2.04~8.80 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 550 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA112038HST-T	S	115	50/60	2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	20000	1/1	45.0/50.0
FA112038HSL-T	S		50/60	2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	20000	1/1	45.0/50.0
FA112038LBT-T	2B		50/60	1800/1600	83/65	4.20/2.04	0.10/0.10	9.0/8.0	60000	3/3	41.1/32.5
FA112038LBL-T	2B		50/60	1800/1600	83/65	4.20/2.04	0.10/0.10	9.0/8.0	60000	3/3	41.1/32.5
FA112038MBT-T	2B		50/60	2100/2300	90/88	6.20/4.00	0.14/0.13	12.0/11.0	60000	2/2	41.0/43.0
FA112038MBL-T	2B		50/60	2100/2300	90/88	6.20/4.00	0.14/0.13	12.0/11.0	60000	2/2	41.0/43.0
FA112038HBT-T	2B	230	50/60	2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	60000	1/1	45.0/50.0
FA112038HBL-T	2B		50/60	2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	60000	1/1	45.0/50.0
FA212038HST-T	S		50/60	2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	20000	1/1	45.0/50.0
FA212038HSL-T	S		50/60	2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	20000	1/1	45.0/50.0
FA212038MBT-T	2B		50/60	2100/2300	90/88	6.20/4.00	0.07/0.06	12.0/11.0	60000	2/2	41.0/43.0
FA212038MBL-T	2B		50/60	2100/2300	90/88	6.20/4.00	0.07/0.06	12.0/11.0	60000	2/2	41.0/43.0
FA212038HBT-T	2B		50/60	2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	60000	1/1	45.0/50.0
FA212038HBL-T	2B		50/60	2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	60000	1/1	45.0/50.0

2B: 2-ball bearing S: sleeve bearing

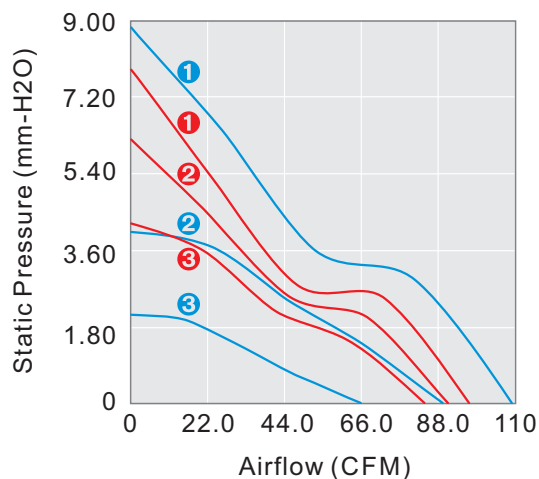
Voltage Available

115 230

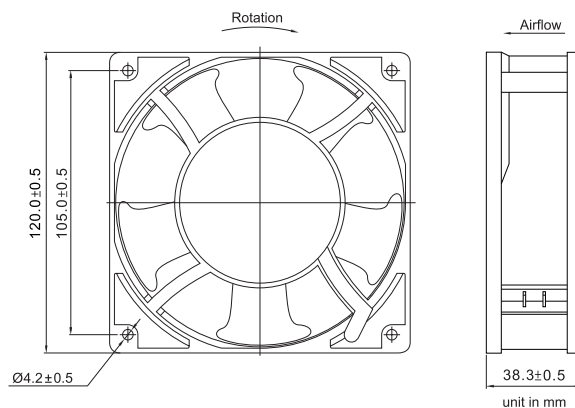
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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172x150x51mm

- **Airflow: 190.0~223.0 CFM**
- **Static Pressure: 15.0~19.0 mm-H₂O**
- **Blade:**
Glass reinforced thermoplastic, UL 94V-0
- **Frame: Die-Cast Aluminum**
- **Weight: 1050 g**

[illegible]

2B: 2-ball bearing S: sleeve bearing

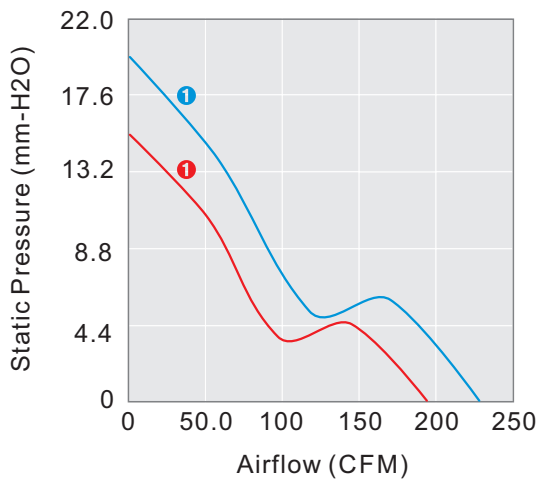
Voltage Available

115 230

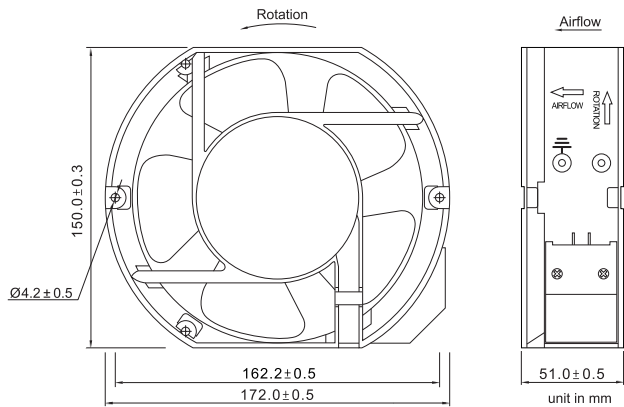
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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176x176x89mm

- Airflow: 344.8~397.2 CFM
- Static Pressure: 15.9~20.7 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 2000 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 65°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA117689HBT-T	2B	115	50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	①/②	61.1/64.8
FA117689HBL-T	2B		50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	①/②	61.1/64.8
FA217689HBT-T	2B	230	50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	①/②	61.1/64.8
FA217689HBL-T	2B		50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	①/②	61.1/64.8

2B: 2-ball bearing S: sleeve bearing

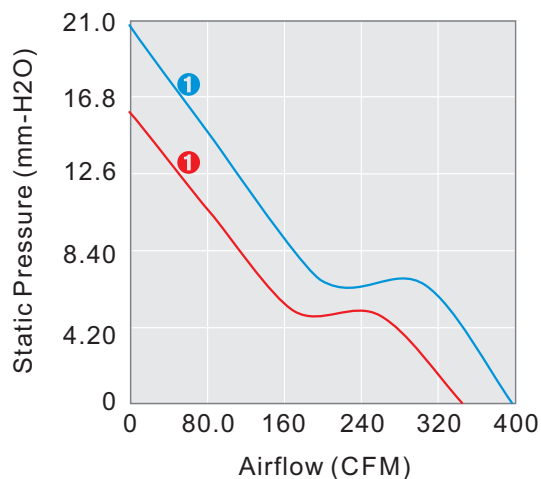
Voltage Available

115 230

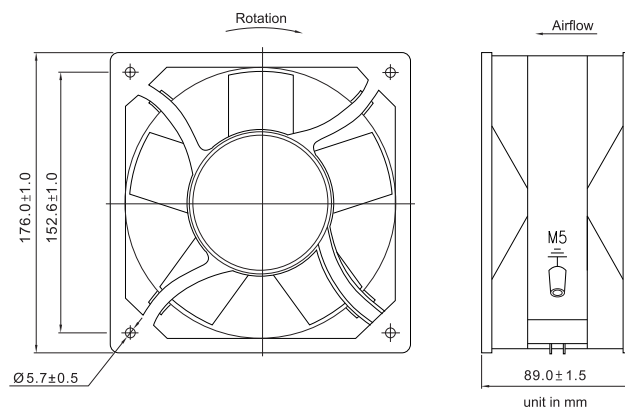
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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180x180x65mm

- Airflow: 349.5~397.5 CFM
- Static Pressure: 17.6~22.0 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 1800 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 65°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA118065HBT-T 2B	2B	115	50/60	2650/3200	349.5/397.5	17.6/22.0	0.57/0.48	50.0/52.0	40000	①/①	59.7/63.6
FA118065HBL-T 2B	2B	115	50/60	2650/3200	349.5/397.5	17.6/22.0	0.57/0.48	50.0/52.0	40000	①/①	59.7/63.6
FA218065HBT-T 2B	2B	230	50/60	2650/3200	349.5/397.5	17.6/22.0	0.23/0.24	43.0/52.0	40000	①/①	59.7/63.6
FA218065HBL-T 2B	2B	230	50/60	2650/3200	349.5/397.5	17.6/22.0	0.23/0.24	43.0/52.0	40000	①/①	59.7/63.6

2B: 2-ball bearing S: sleeve bearing

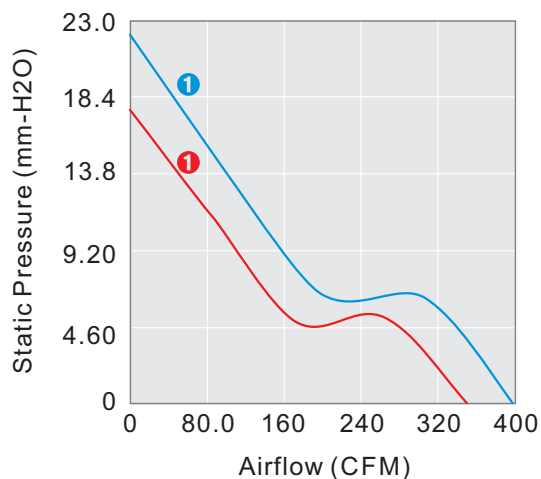
Voltage Available

115 230

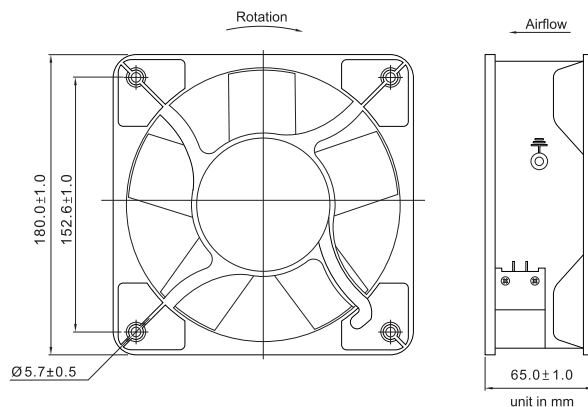
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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Ø 254x89mm

- Airflow: 443.0~700.0 CFM
- Static Pressure: 6.87~8.39 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Casting Aluminum
- Weight: 2000 g

	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 65°C L10	P-Q Curve	Noise Level
Model No.		VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour		dB(A)
FA125489MBT-T 2B	115		50/60	1400/1600	443/518	6.87/8.39	0.22/0.24	34.0/37.0	40000	②/②	52.6/59.5
FA125489MBL-T 2B			50/60	1400/1600	443/518	6.87/8.39	0.22/0.24	34.0/37.0	40000	②/②	52.6/59.5
FA125489HBT-T 2B			50/60	2300/2200	700/620	8.90/6.80	0.55/0.62	60.0/67.0	40000	①/①	61.6/57.6
FA125489HBL-T 2B			50/60	2300/2200	700/620	8.90/6.80	0.55/0.62	60.0/67.0	40000	①/①	61.6/57.6
FA225489MBT-T 2B	230		50/60	1400/1600	443/518	6.87/8.39	0.16/0.14	34.0/37.0	40000	②/②	52.6/59.5
FA225489MBL-T 2B			50/60	1400/1600	443/518	6.87/8.39	0.16/0.14	34.0/37.0	40000	②/②	52.6/59.5
FA225489HBT-T 2B			50/60	2300/2200	700/620	8.90/6.80	0.26/0.30	60.0/67.0	40000	①/①	61.6/57.6
FA225489HBL-T 2B			50/60	2300/2200	700/620	8.90/6.80	0.26/0.30	60.0/67.0	40000	①/①	61.6/57.6

2B: 2-ball bearing S: sleeve bearing

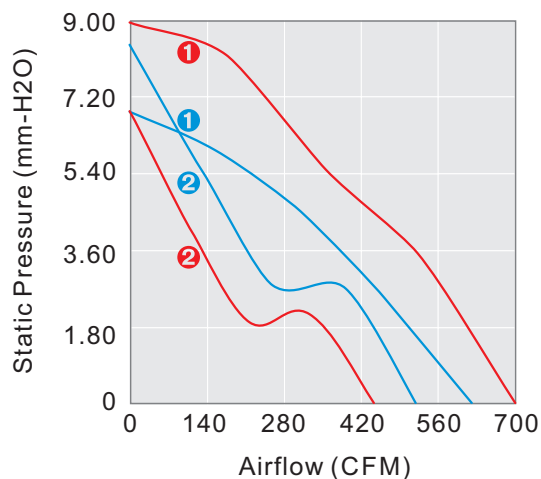
Voltage Available

115 230

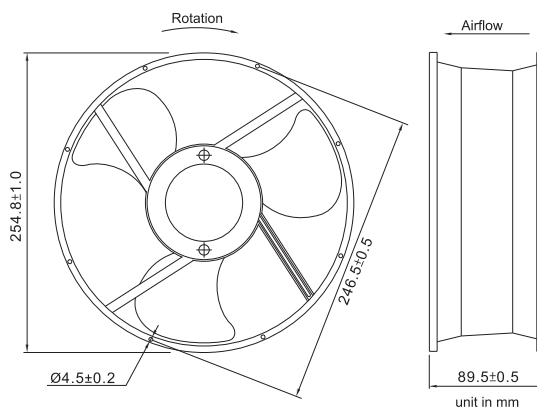
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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280x280x89mm

- Airflow: 655~1424 CFM
- Static Pressure: 9.65~33.0 mm-H₂O
- Blade:
Glass reinforced thermoplastic, UL 94V-0
- Frame: Die-Cast Aluminum
- Weight: 4240 g

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 65°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA128090MBT-T 2B			50/60	1500/1700	655/ 779	9.65/12.2	0.82/0.67	61/ 60	40000	②/②	56.2/59.0
FA128090MBL-T 2B			50/60	1500/1700	655/ 779	9.65/12.2	0.82/0.67	61/ 60	40000	②/②	56.2/59.0
FA128090HBT-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	1.65/2.50	185/300	40000	①/①	67.8/69.3
FA128090HBL-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	1.65/2.50	185/300	40000	①/①	67.8/69.3
FA228090MBT-T 2B			50/60	1500/1700	655/ 779	9.65/12.2	0.42/0.35	62/ 65	40000	②/②	56.2/59.0
FA228090MBL-T 2B			50/60	1500/1700	655/ 779	9.65/12.2	0.42/0.35	62/ 65	40000	②/②	56.2/59.0
FA228090HBT-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	0.75/1.25	185/290	40000	①/①	67.8/69.3
FA228090HBL-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	0.75/1.25	185/290	40000	①/①	67.8/69.3

2B: 2-ball bearing S: sleeve bearing

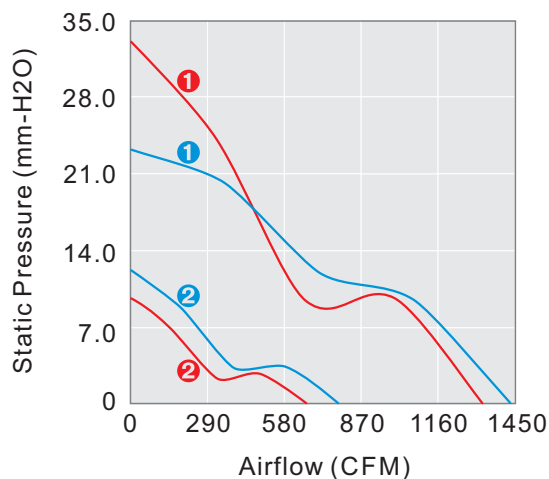
Voltage Available

115 230

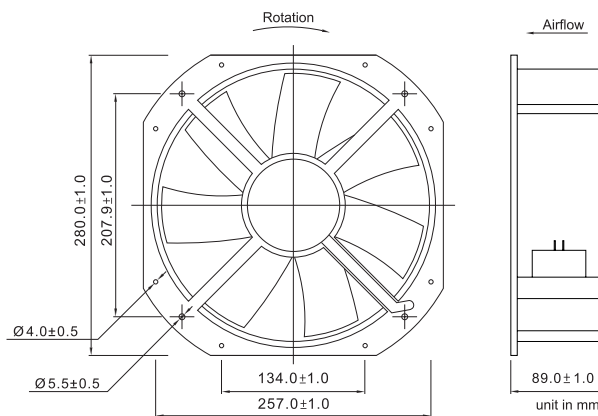
Bearing System Available

2B S

PERFORMANCE P-Q CURVE

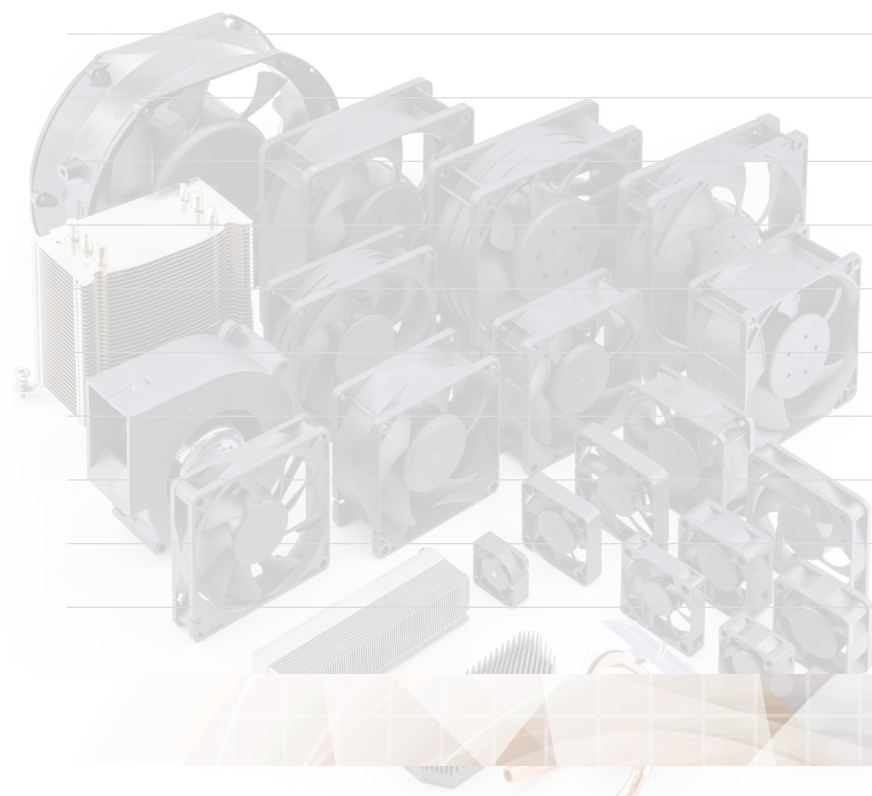


OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.

Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department. Visit Y.S. TECH web site at <http://www.ystech.com.tw> for updated information. Customized Specifications are designed accordingly





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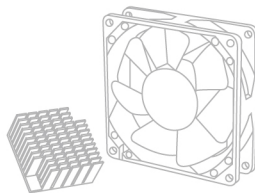
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