Y.S. TECH

PRODUCTS GUIDE

COOLING SOLUTION ENGINEERING HANDBOOK

Your Best Partner@ Cooling & Ventilation

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

Y.S. TECH

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Business Vision

Y.S. Tech was established in 1987 and is one of the world's leading cooling and ventilation solutions providers. We manufacture BLDC cooling fans, blowers, heat sinks and modules for Automotive, Traditional and Green Energy, Medical, Telecom and the Data Storage Industry. We integrate Aerodynamic, Thermal Distribution and Psycho-Acoustic Analysis as well as Hardware/Software Motor Controls to provide stock and custom solutions optimized for our client's needs. Y.S. Tech is motivated to become Your Best Partner for Cooling & Ventilation.

Core Technology

Your Best Partner
@ Cooling & Ventilation

It is clear to Y.S. Tech that Artificial Intelligence will dramatically change our lives. In our industry, the use of AI for Smart Control of electro-mechanical devices and Flexible Design & Manufacturing is key to developing future technologies such as Driverless Cars, Big Data, Health Care, and Life Sciences.

Y.S. Tech is committed to being your best partner in cooling and ventilation by designing and manufacturing high-quality products. We also strive to support the growth and development of future technologies through investment in Biomechanics, Aerodynamic, Acoustic, Vibration, Thermal Dynamic, Hardware/Software control systems, and Smart Factory Systems. So far, we have accumulated over 800 worldwide patents.

Quality and Environmental

health of our team members is fundamental to ensuring our continued growth and

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 devel-opment. Regarding quality; Y.S. Tech is dedicated to the continuous improvement of our process-es 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 automo-tive 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, Aerodynamic, Psycho-Acoustics, Vibration Analy-sis, 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.

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ISO 9001:2015
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ISO 14001:2015
OHSAS 18001:2007
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Occupational Health & Safety Policy

Regarding our employees' health and safety, Y.S. Tech ,a OHSAS 18001/ISO 45001 certified global company, is dedicated to introducing training and partial programs 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 support 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

YW	120	38	012	B	H	–	6	(AXXX)
1	2	3	4	5	6		7	

Explanation

1 Product Series
YW, NYW, HYW: Axial DC Fan
KM: Axial DC Fan
BW: DC Blower

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

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

4 Voltage Type
05: 5V
12: 12V
24: 24V
48: 48V

5 Bearing Type (1 code)
B: Ball Bearing
S: Sleeve Bearing
L: Sintetico Bearing

6 Speed (1 code)
L: Low Speed
M: Medium Speed
H: High Speed
S: Extra High Speed
U: Ultra Speed
SS: Super Speed

(Suffix): Custom Mods

Function:
: Transistor (2 wires)
1: Transistor With FG Signal (3 wires)
2: Alarm high-low IC (3wires)
3: Alarm Low IC (3 wires)
4: Alarm High IC (3 wires)
5: Tachometer IC (3 wires)
6: Auto-Restart IC (2 wires)
7: Thermistor IC (2 wires)
8: Thermistor (T) + Tachometer (F) IC
10: Alarm High (R) + Tachometer (F) IC
11: Alarm Low (Q) + Tachometer (F) IC
12: Pulse Width Modulation (PWM) IC
13: Thermistor (T)+Alarm High(R) IC
13: Thermistor IC(T)+VR+Tachometer(F) IC
14: Pulse Width Modulation(PWM) IC, Without FG Signal
15: Alarm High (R) + PWM (B) IC
16: Thermistor IC(T)+VR
18: Thermistor (T) +Alarm High-Low (S) IC
19: PWM(W)+Thermistor IC(T)
20: Vcc With PWM Control, Without FG Signal
21: Vcc With PWM Control, With FG Signal

AC Fan Model Numbering System

KT	120	38	115	B	H	(Suffix)
1	2	3	4	5	6	

1 Product Type
KT/KW: AC Fan

2 Dimension
080: 80mmx80mm
092: 92mmx92mm
120: 120mmx120mm
172: 172mmx150mm
180: 180mmx180mm
254: 254mm
280: 280mmx280mm

3 Thickness
25: 25mm
38: 38mm
51: 51mm
65: 65mm
89: 89mm

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

5 Bearing Type (1 code)
B: Ball Bearing
S: Sleeve Bearing

6 Speed (1 code)
L: Low Speed
M: Medium Speed
H: High Speed
E: Extreme Speed

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.

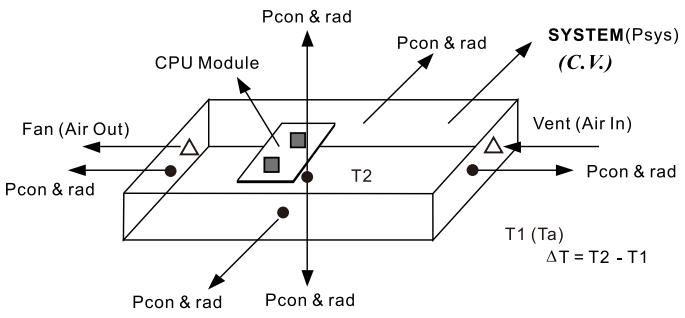


Illustration 1: System Heat transferred

Then we can estimate Flow Rate inquiry by followed equations

$$P_{fan}=P_{sys}-P_{com\&rad}$$
$$P_{fan}=C_p \times Q \times \rho \times \Delta T$$
$$Q_{eff}(CFM)=\frac{P_{fan}}{C_p \times \rho \times \Delta T}=\frac{1.76 \times P_{fan}}{\Delta T_c}=\frac{3.16 \times P_{fan}}{\Delta T_f}$$

Q_{eff} : Efficiency Flow Rate
ρ : Gas Density
C_p : Specific Heat of Gas
$Q_{eff} = 3160 \times KW / \triangle T_f$
$\triangle T_f$: Allowable temperature rise in degree Fahrenheit
$\triangle T_c$: 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:

$\triangle Pi = kQ^n$
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.

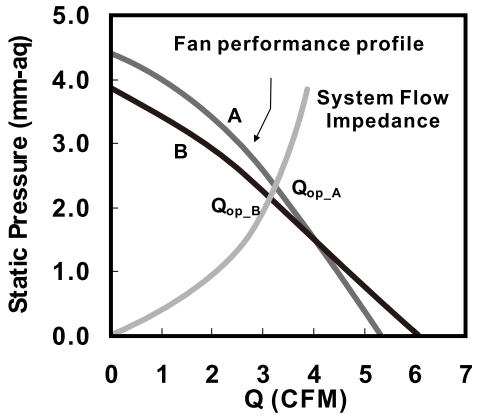


Illustration 2: Fan Performance Comparison

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 $\triangle Pi$. Normally, most specialized fan manufactures 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.

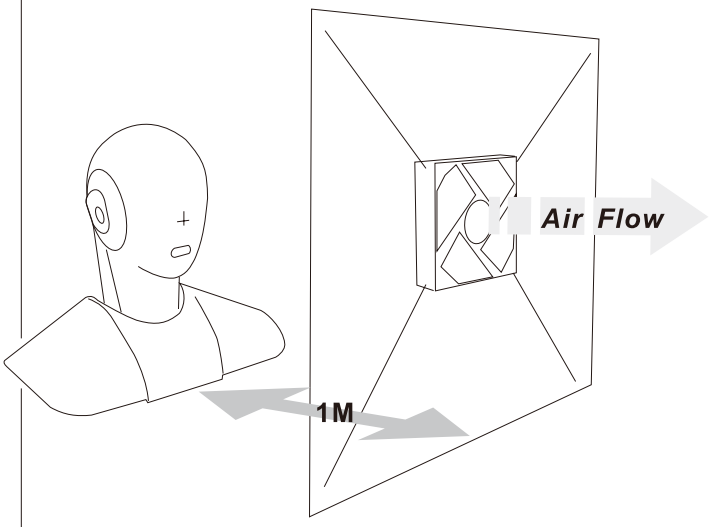
5.Sound Quality analysis

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.SQlab III, Mobile Multi-channel Analysis System.
4.Specifications: ISO 7779, CNS 6753, JIS 8346
5.Background Noise: < 17dB(A)



Cooling Fan Life Expectancy:L10 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.

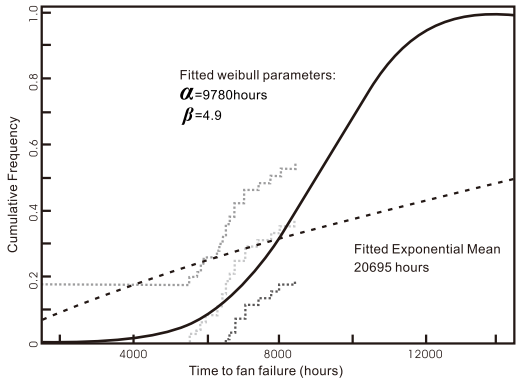


Figure 1：Sample cumulative distribution function, Weibull vs. Empirical with 95% confidence bands
(Reference：IBM Corp. , May 1996, Vol.2, No.2, Electronics Cooling)

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

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

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:

$\because$ L_{10} Means age t when $F(t)=0.1$

$\therefore$ $0.1 = 1-e^{-(L10/\alpha)\beta}$

$L_{10} = \alpha\,(0.10536)^{1/\beta}$

$MTTF = 7.46 \times L_{10} \fallingdotseq 7 \times L_{10}$ *(90% Confidence Level)*

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.

$$P(x, t) = \{(\lambda t)^x e^{-\lambda t}\} / x!$$

$$P(0,t) = \{(\lambda t)^0 e^{-\lambda t}\} / 0! = e^{-\lambda t}$$

$\because$ $R(t) = e^{-(t/\alpha)\beta}$

$MTTF = \alpha\Gamma(1+1/\beta)$

$\therefore$ $t = \alpha[(Br\ ;\ c)/n]^{1/\beta}$

$t = [MTTF / \Gamma(1+1/\beta)] \times [(B_{r;c})/n]^{1/\beta}$

where $B_{r;c}$ *is Poisson Distribution Factor*

Normally on the condition of 90% confidence level and 0 failure then $B_{r;c}$ = 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:

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

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	N.D.	<100	--
	Solders	<20		--
	Other homogeneous materials	<50		--
Lead and Lead compounds	1.Plastics, rubbers 2.Paints 3.Inks	<50	<1000	--
	Other homogeneous materials	<800		--
Mercury and Mercury compounds	All	N.D.	<1000	--
Hexavalent Chromium compounds Chromium (VI):	Metallic parts or metallic surface coating	N.D.	<1000	--
	Other homogeneous materials	<100		--
PBBs、PBDEs	All	<100	<1000	--
Di-isobutyl phthalate (DIBP)	All	<1000	<1000	--
Dibutyl phthalate (DBP)	All	<1000	<1000	--
Butyl Benzyl phthalate (BBP)	All	<1000	<1000	--
Di- (2-ethylhexyl) phthalate(DEHP)	All	<1000	<1000	--
Red phosphorus	All	N.D.	--	--
Total concentration of four heavy metals for product package (Concentration of Cadmium for Plastics (including Rubber) has to less than 5ppm)		<80		
Concentration of lead for Steel Alloys		<3500	<3500	--
Concentration of lead for Aluminum Alloys		<4000	<4000	--
Concentration of lead for Copper Alloys		<40000	<40000	--
SVHC		--	--	<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
I.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

RoHS Compliance

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℃/ 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 was stocked at an ambient temperature under 5℃ and over 24 hrs. Please stock fans to an ambient temperature over 20℃ 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.

Engineering Information

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_a= N/m^2	mm-H_2O	inch-H_2O	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

Sound Pressure Level (SPL, dB) = 20 log (P/ P_0)
where P_0 = 20 μP_a
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 = Noise level measured at rpm_1
N_2 = Noise level calculated at rpm_2

i) By Measuring Distance

$$N_2 = N_1 + 20 \log (Distance_1 / Distance_2)$$

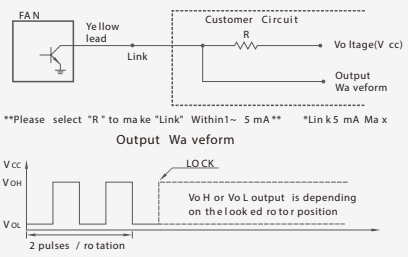
where

N_1 = Noise level measured at $Distance_1$
N_2 = Noise level calculated at $Distance_2$

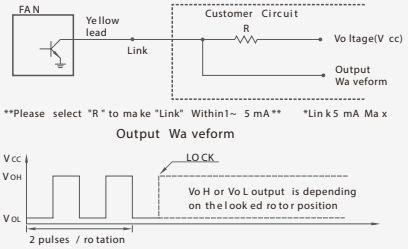
According to above equations, it is very clear the acoustic noise level will reduce 6 dB when the distance doubled. Comparatively, the noise level will also increase 6 dB when distance shorten by half.

Wave form of ic function

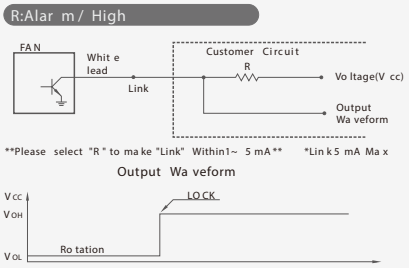
A:3r d Puls e Wi re



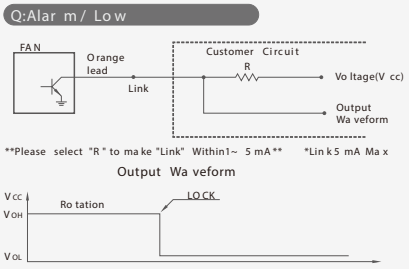
F:Ta chometer / Speed Sensor



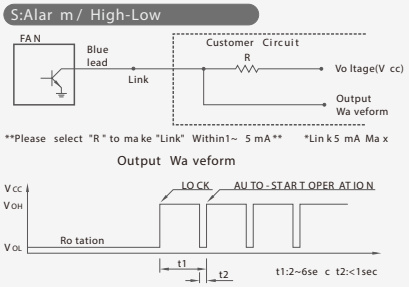
R:Alar m / High



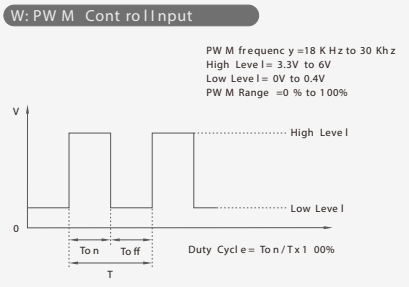
Q:Alar m / Low



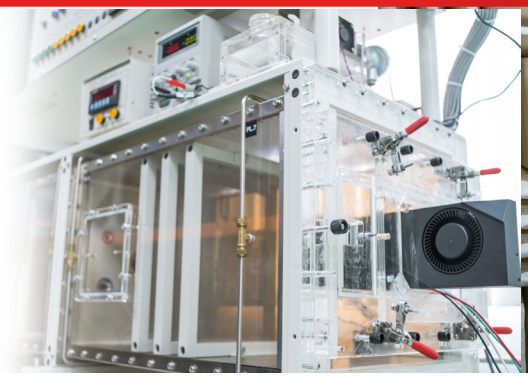
S:Alar m / High-Low

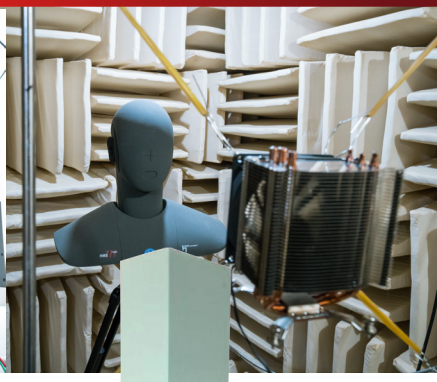


W: PW M Cont ro l Input



Heat Sink & Thermal Model





We are professional in:

「High Precision Machinery」

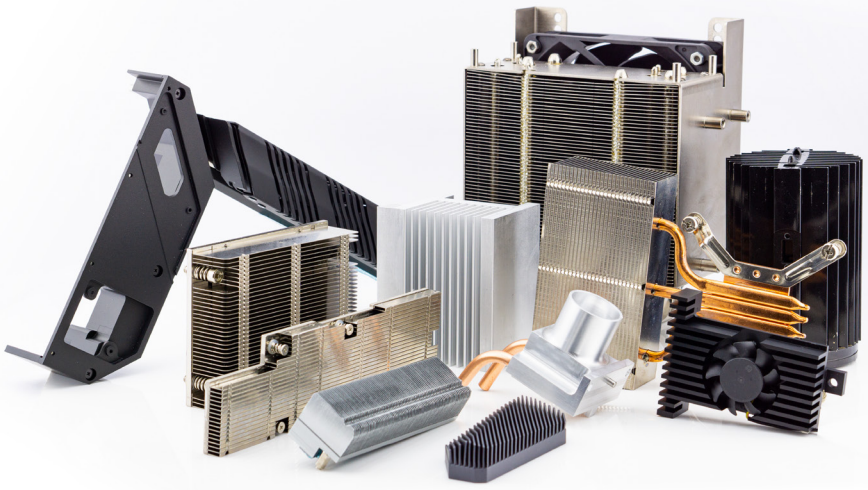
「Multi-Assembly & Flexibility Manufacture」

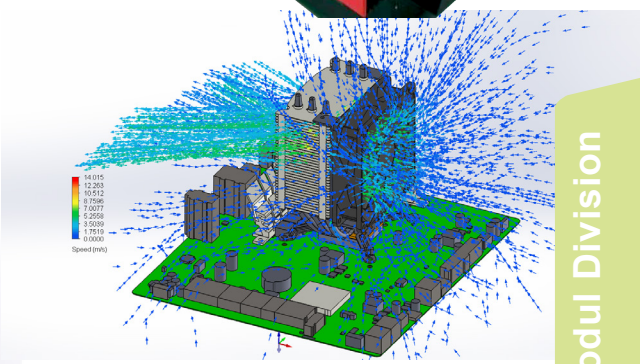
「Surface Coating & Coloring」

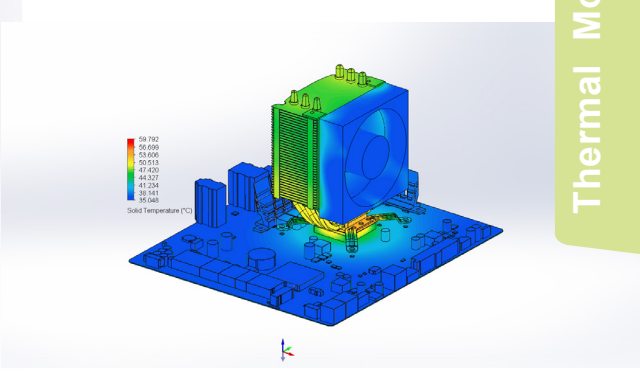
Technical Support

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

Product Application

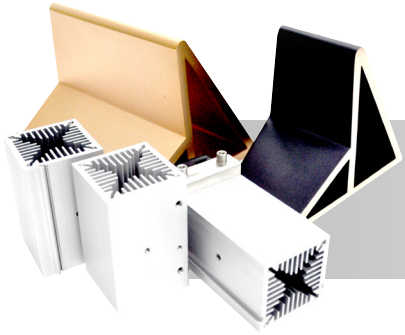






Thermal Modul Division

Process and Material

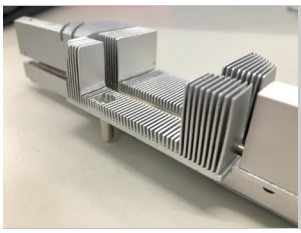


Aluminum Extrusion
AL 6063、AL 6061

Die-Casting
ADC12、ADC10、A380

Punching
AL 1050、AL 1100
CU 1100

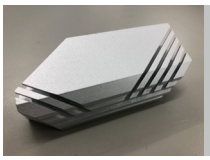
Soldering
Copper - Copper,
Copper - Aluminum,
Aluminum - Aluminum



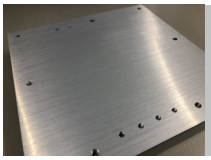
Skiving
AL 6063
CU 1100

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

Surface Finishing

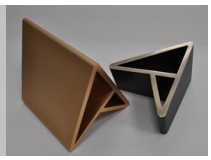


Mechanical surface finishing
Sand blasting

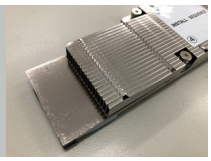


Hairline finishing

Chemical surface finishing
Aluminum Anodizing



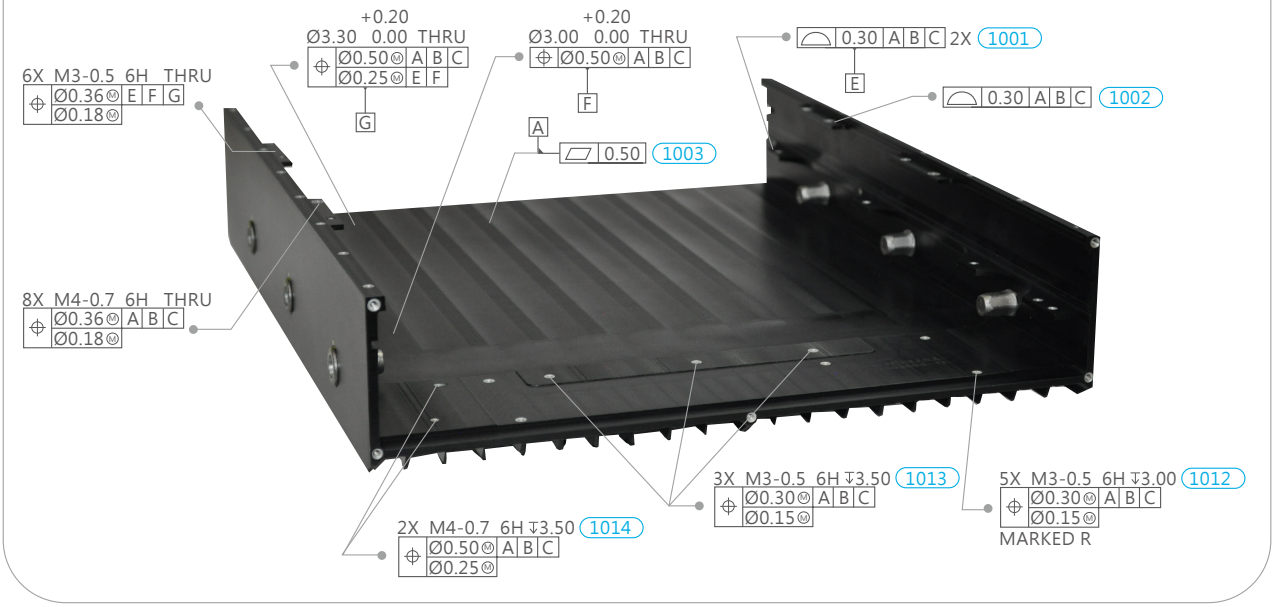
Electro-less Nickel Plating



Anti-oxidation

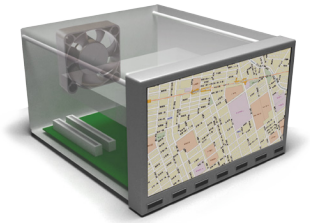
Chromate

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

Automotive Applications

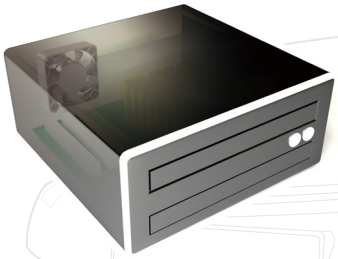
Wide range of industries application

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-H2O	mA	W	Hour		dB(A)
NYW02510005BL	2B	05	4~5.5	7000	2.0	3.7	75	0.38	80000	4	18.0
NYW02510005BM	2B		4~5.5	8500	2.4	4.5	110	0.55	80000	3	22.5
NYW02510005BH	2B		4~5.5	10000	2.8	5.3	140	0.70	75000	2	26.0
NYW02510005BS	2B		4~5.5	12000	3.3	6.3	180	0.90	65000	1	30.0
NYW02510005LL	L		4~5.5	7000	2.0	3.7	80	0.40	50000	4	<17.0
NYW02510005LM	L		4~5.5	8500	2.4	4.5	80	0.40	50000	3	19.2
NYW02510012BL	2B	12	9~13.2	7000	2.0	3.7	40	0.48	80000	4	18.0
NYW02510012BM	2B		7~13.2	8500	2.4	4.5	50	0.60	80000	3	22.5
NYW02510012BH	2B		7~13.2	10000	2.8	5.3	65	0.78	75000	2	26.0
NYW02510012BS	2B		7~13.2	12000	3.3	6.3	70	0.84	65000	1	30.0
NYW02510012LL	L		9~13.2	7000	2.0	3.7	40	0.48	50000	4	<17.0
NYW02510012LM	L		7~13.2	8500	2.4	4.5	50	0.60	50000	3	19.2

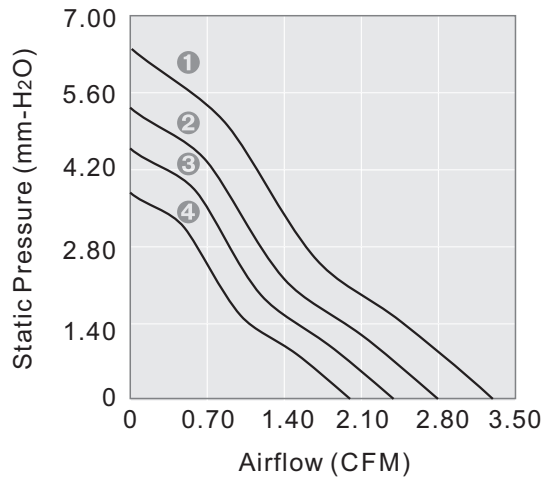
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

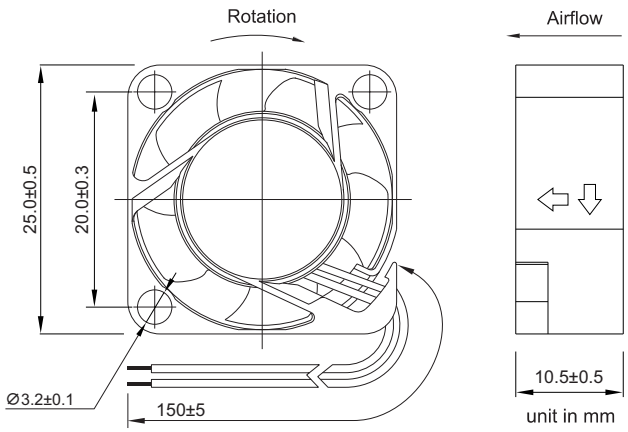
Bearing System Available
2B L S

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.ystechusa.com* 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-H2O	mA	W	Hour		dB(A)
NYW03010005BL	2B	05	4~5.5	5800	2.5	2.0	50	0.25	80000	4	<17.0
NYW03010005BM	2B		4~5.5	6800	3.0	2.7	80	0.40	80000	3	18.0
NYW03010005BH	2B		4~5.5	7800	3.4	3.3	90	0.45	75000	2	21.5
NYW03010005BS	2B		4~5.5	10000	4.0	5.2	120	0.60	65000	1	28.0
NYW03010005LL	L		4~5.5	6000	2.6	2.0	80	0.40	50000	4	<17.0
NYW03010005LM	L		4~5.5	7000	2.9	2.8	105	0.53	50000	3	20.5
NYW03010005LH	L		4~5.5	8000	3.3	3.6	130	0.65	50000	2	23.2
NYW03010005LS	L		4~5.5	10000	4.0	5.2	190	0.95	50000	1	28.0
NYW03010012BL	2B	12	9~13.2	5800	2.5	2.0	35	0.42	80000	4	<17.0
NYW03010012BM	2B		7~13.2	6800	3.0	2.7	40	0.48	80000	3	18.0
NYW03010012BH	2B		7~13.2	7800	3.4	3.3	40	0.48	75000	2	21.5
NYW03010012BS	2B		7~13.2	10000	4.0	5.2	60	0.72	65000	1	28.0
NYW03010012LL	L		9~13.2	6000	2.5	2.0	35	0.42	50000	4	<17.0
NYW03010012LM	L		7~13.2	7000	2.9	2.8	50	0.60	50000	3	20.5
NYW03010012LH	L		7~13.2	8000	3.3	3.6	60	0.72	50000	2	23.2
NYW03010012LS	L		7~13.2	10000	4.0	5.2	80	0.96	50000	1	28.0

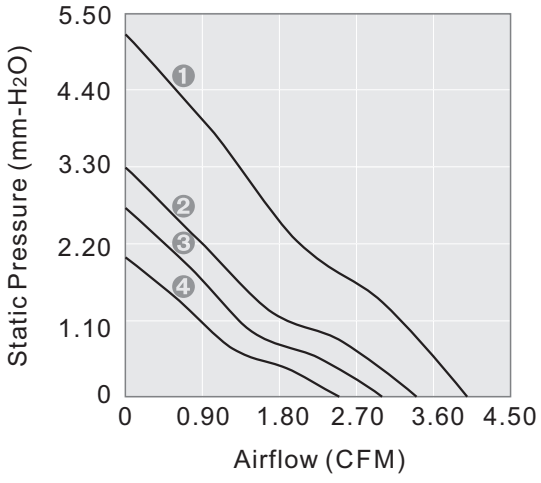
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

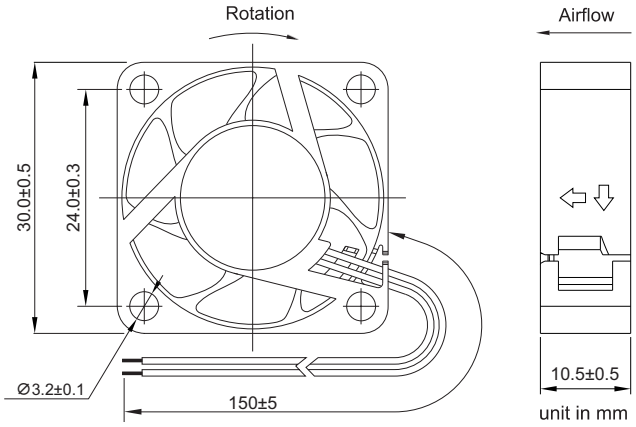
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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-H2O	mA	W	Hour		dB(A)
NYW03015005BL	2B	05	4~5.5	7000	3.8	2.8	60	0.30	80000	4	<17.0
NYW03015005BM	2B		4~5.5	8000	4.4	3.7	85	0.42	80000	3	20.5
NYW03015005BH	2B		4~5.5	9000	4.9	4.4	110	0.55	75000	2	25.0
NYW03015012BS	2B		4~5.5	11000	5.7	6.3	200	1.00	65000	1	30.0
NYW03015012BL	2B	12	7~13.2	7000	3.8	2.8	30	0.36	80000	4	<17.0
NYW03015012BM	2B		7~13.2	8000	4.4	3.7	40	0.48	80000	3	20.5
NYW03015012BH	2B		7~13.2	9000	4.9	4.4	45	0.54	75000	2	25.0
NYW03015012BS	2B		7~13.2	11500	6.1	7.1	90	1.08	65000	1	30.0

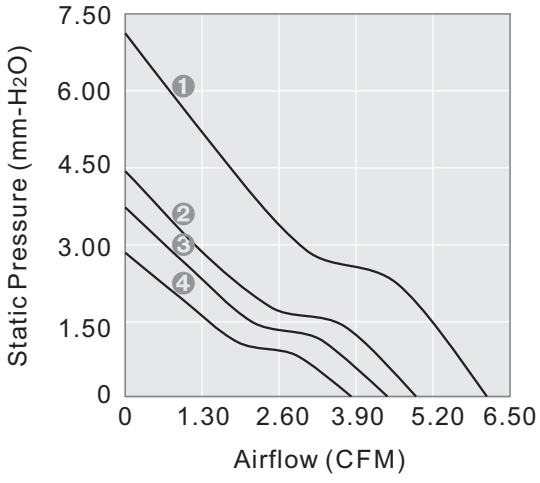
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

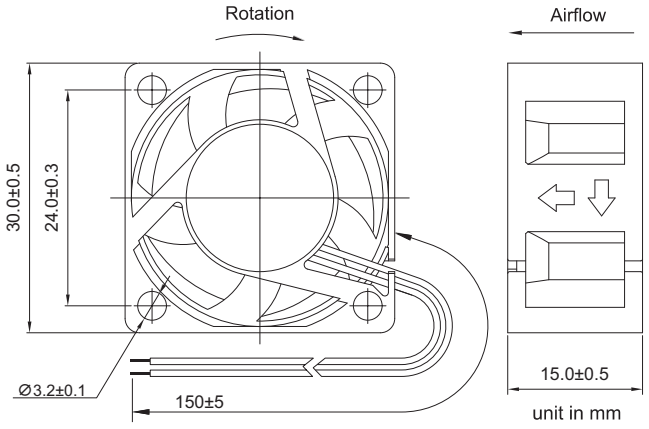
Bearing System Available
2B L S

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**

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-H2O	mA	W	Hour		dB(A)
XYW03628012BM	2B	12	7~13.2	17000	18.74	36.63	500	6.00	80000	4	56.0
XYW03628012BH	2B		7~13.2	19000	21.05	46.40	650	7.80	75000	3	59.5
XYW03628012BS	2B		7~13.2	21000	23.22	55.71	850	10.20	65000	2	61.0
XYW03628012BSS	2B		7~13.2	23000	24.99	65.09	1000	12.00	65000	1	63.0

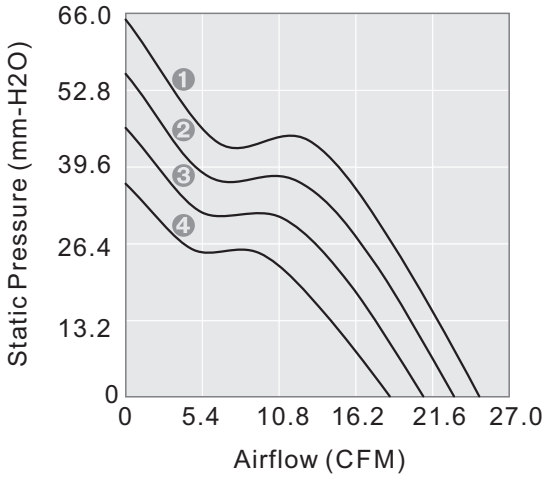
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

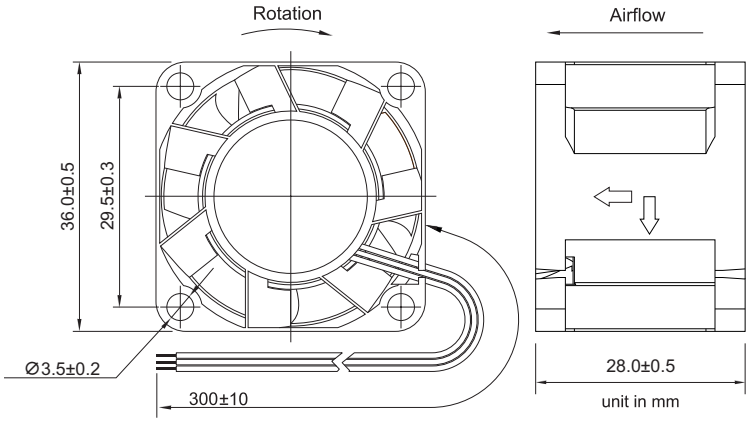
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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**

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-H2O	mA	W	Hour		dB(A)
XYW03828012BM	2B	12	7~13.2	17000	13.73	37.13	300	3.60	80000	5	46.5
XYW03828012BH	2B		7~13.2	19000	15.77	46.27	400	4.80	75000	4	48.0
XYW03828012BH	2B		7~13.2	21000	17.53	59.41	500	6.00	65000	3	53.0
XYW03828012BSS	2B		7~13.2	23500	19.49	65.37	700	8.40	65000	2	56.0
XYW03828012BU	2B		7~13.2	25000	20.86	77.26	850	10.20	65000	1	57.5

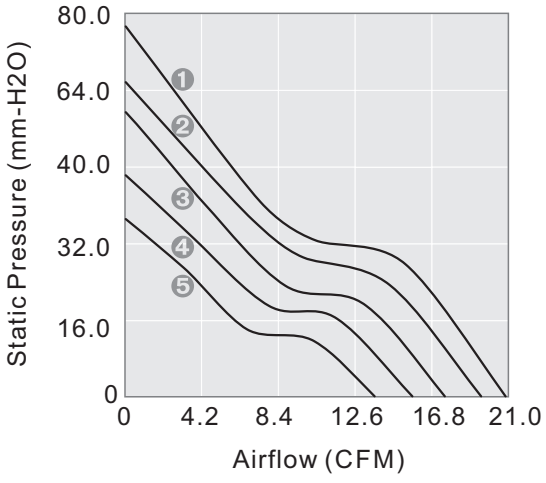
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

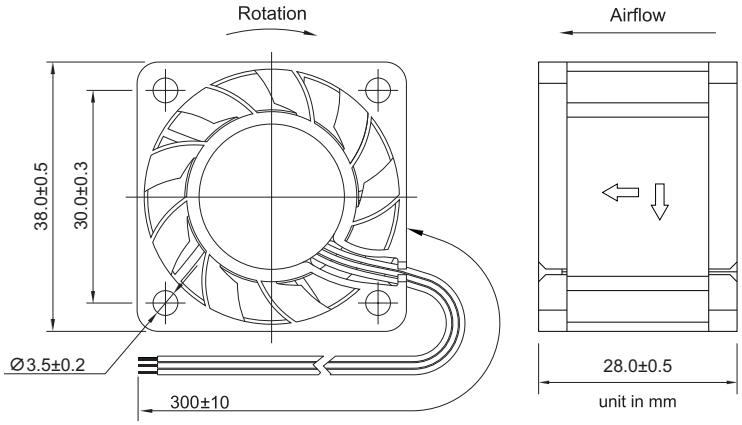
Bearing System Available
2B L S

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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38x38x48mm

- **Airflow: 23.48~29.28 CFM**
- **Static Pressure: 53.9~79.1 mm-H_2O**
- **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_2O	mA	W	Hour		dB(A)
XYW03848012BU	2B	12	7~13.2	25000 15000	29.28	79.1	830 830	9.96 9.96	60000	1	64.0
XYW03848012BSS	2B		7~13.2	23500 14500	27.62	74.6	700 700	8.40 8.40	65000	2	62.5
XYW03848012BH	2B		7~13.2	20000 12500	23.48	53.9	450 450	5.40 5.40	65000	3	59.0

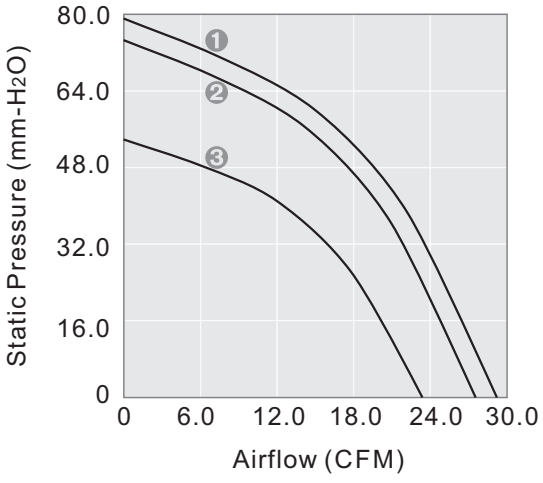
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

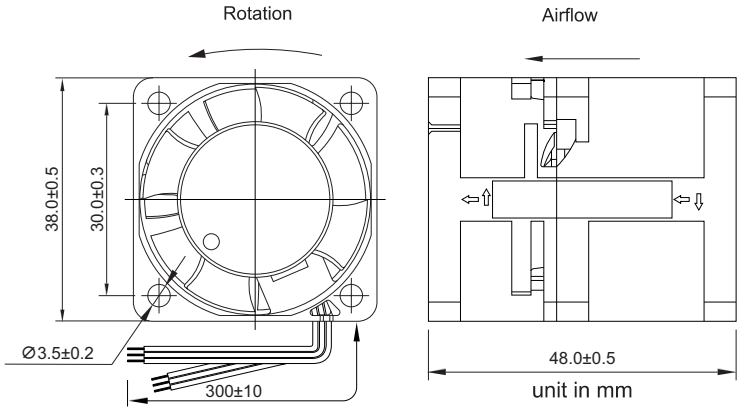
Bearing System Available
2B L S

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.

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-H2O	mA	W	Hour		dB(A)
YW04010005BL	2B	05	4~5.5	4500	4.5	2.0	90	0.45	80000	5	21.5
YW04010005BM	2B		4~5.5	5500	5.6	2.9	130	0.65	80000	4	26.5
YW04010005BH	2B		4~5.5	6500	6.6	4.1	170	0.85	75000	3	29.0
YW04010005BS	2B		4~5.5	7500	8.1	5.4	250	1.25	65000	2	34.5
YW04010005BSS	2B		4~5.5	8000	8.5	6.1	300	1.50	65000	0	36.5
YW04010012BL	2B	12	7~13.2	4500	4.5	2.0	45	0.54	80000	5	21.5
YW04010012BM	2B		7~13.2	5500	5.3	2.9	65	0.78	80000	4	25.0
YW04010012BH	2B		7~13.2	6500	6.6	4.1	75	0.90	75000	3	29.0
YW04010012BS	2B		7~13.2	7500	8.1	5.4	100	1.20	65000	2	34.5
YW04010012BSS	2B		7~13.2	8500	9.2	6.4	120	1.44	65000	1	37.0
YW04010024BL	2B	24	12~26.4	4500	4.5	2.0	50	1.20	80000	5	21.5
YW04010024BM	2B		12~26.4	5500	5.3	2.9	60	1.44	80000	4	25.0
YW04010024BH	2B		12~26.4	6500	6.6	4.1	70	1.68	75000	3	29.0

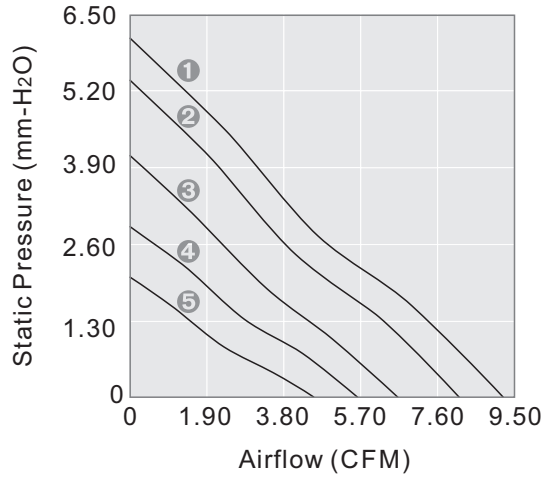
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

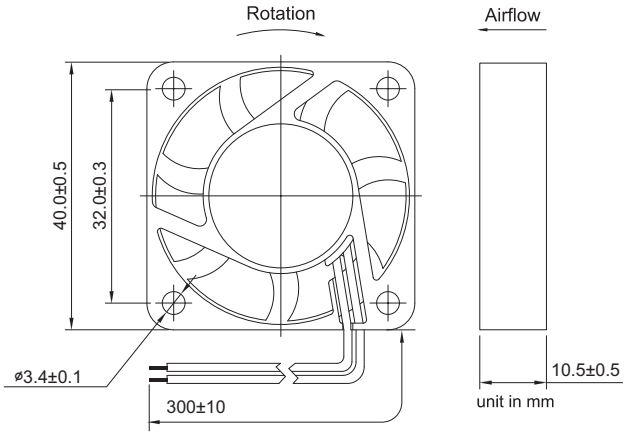
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW04010005LL	L	05	4~5.5	5000	5.08	1.69	70	0.35	50000	4	17.5
NYW04010005LM	L		4~5.5	6000	6.09	2.64	120	0.60	50000	3	21.5
NYW04010005LH	L		4~5.5	7500	7.69	3.64	180	0.90	50000	2	25.0
NYW04010012BL	2B	12	8~13.2	5000	5.08	1.69	25	0.30	80000	4	17.5
NYW04010012BM	2B		8~13.2	6000	6.09	2.64	40	0.48	80000	3	21.5
NYW04010012BH	2B		7~13.2	7500	7.69	3.64	60	0.72	75000	2	25.0
NYW04010012BS	2B		7~13.2	8500	8.71	5.09	80	0.96	65000	1	28.0
NYW04010012LL	L		7~13.2	5000	5.08	1.69	30	0.42	50000	4	17.5
NYW04010012LM	L		7~13.2	6000	6.09	2.64	50	0.60	50000	3	21.5
NYW04010012LH	L		7~13.2	7500	7.69	3.64	75	0.90	50000	2	25.0

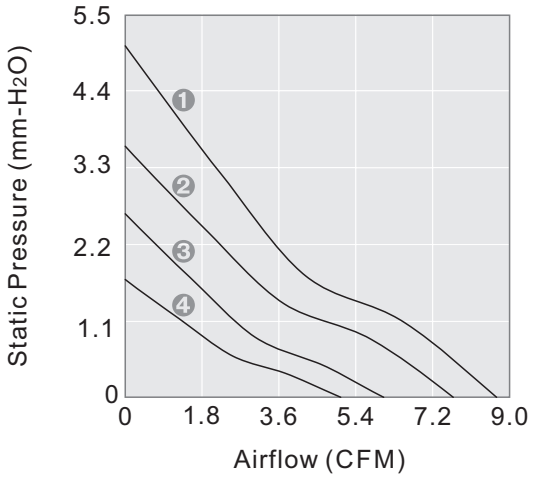
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

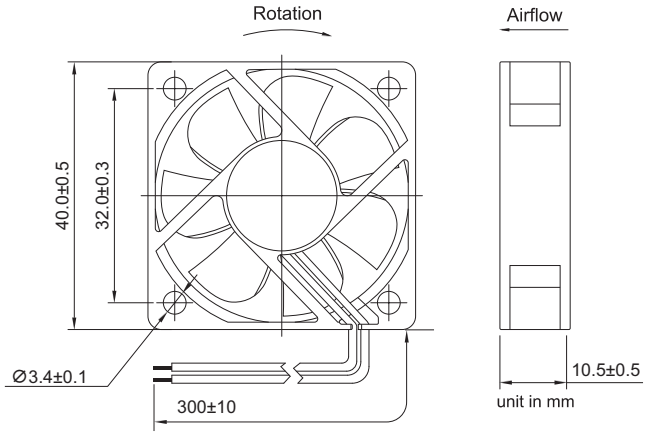
Bearing System Available
2B L S

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_2O	mA	W	Hour		dB(A)
NYW04015012BL	2B	12	7~13.2	5000	5.6	2.6	90	1.08	80000	6	24.0
NYW04015012BM	2B		7~13.2	6000	6.6	3.5	100	1.20	80000	5	29.3
NYW04015012BH	2B		7~13.2	7000	8.2	5.1	130	1.56	75000	4	33.2
NYW04015012BS	2B		7~13.2	8300	9.4	7.1	190	2.28	65000	3	36.8
NYW04015012BSS	2B		7~13.2	9500	11.2	9.1	240	2.88	65000	2	40.8
NYW04015012BU	2B		7~13.2	11000	14.6	14.6	280	3.36	65000	1	42.5

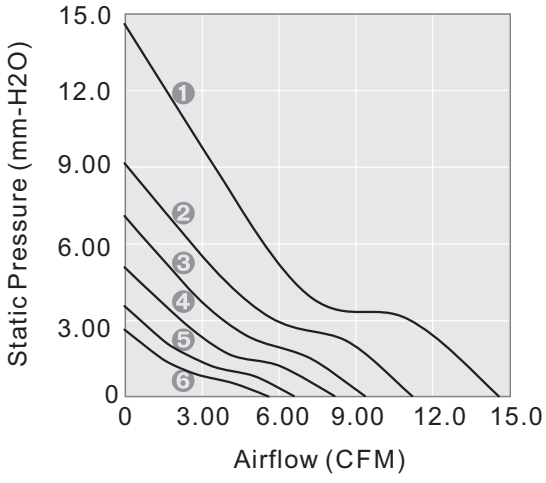
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

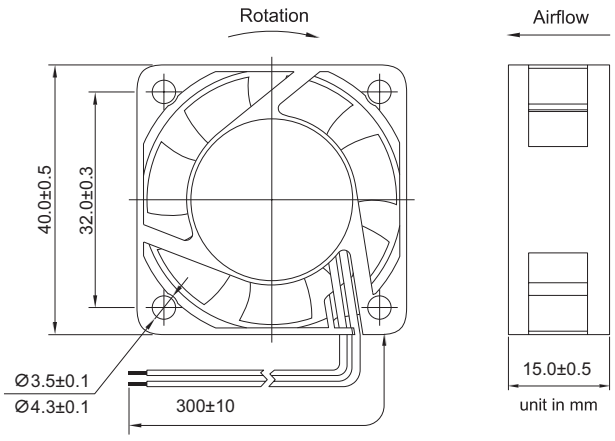
Bearing System Available
2B L S

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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
HYW04020005LL	L	05	4~5.5	5000	5.7	3.2	250	1.25	50000	5	20.0
HYW04020005LM	L		4~5.5	6300	7.2	5.2	350	1.75	80000	4	25.5
HYW04020005LH	L		4~5.5	7600	9.0	6.4	530	2.65	75000	3	29.5
HYW04020012BL	2B	12	7~13.2	5000	5.7	3.2	70	0.84	80000	5	20.0
HYW04020012BM	2B		7~13.2	6300	7.2	5.2	100	1.20	80000	4	25.5
HYW04020012BH	2B		7~13.2	7600	9.0	6.4	140	1.68	75000	3	29.5
HYW04020012BS	2B		7~13.2	8900	10.5	9.2	170	2.04	65000	2	33.5
HYW04020012BU	2B		7~13.2	10000	12.0	11.5	210	2.52	65000	1	37.5
HYW04020024BL	2B	24	12~26.4	5000	5.7	3.2	40	0.96	80000	5	20.0
HYW04020024BM	2B		12~26.4	6300	7.2	5.2	50	1.20	80000	4	25.5
HYW04020024BH	2B		12~26.4	7600	9.0	6.4	70	1.68	75000	3	29.5
HYW04020024BS	2B		12~26.4	8900	10.5	9.2	100	2.40	65000	2	33.5
HYW04020024BU	2B		12~26.4	10000	12.0	11.5	130	3.12	65000	1	37.5

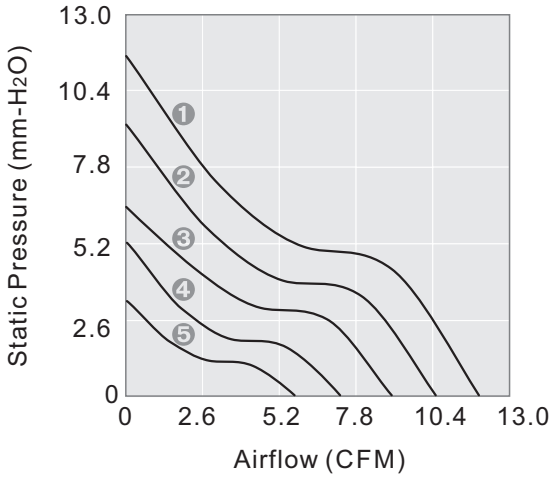
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

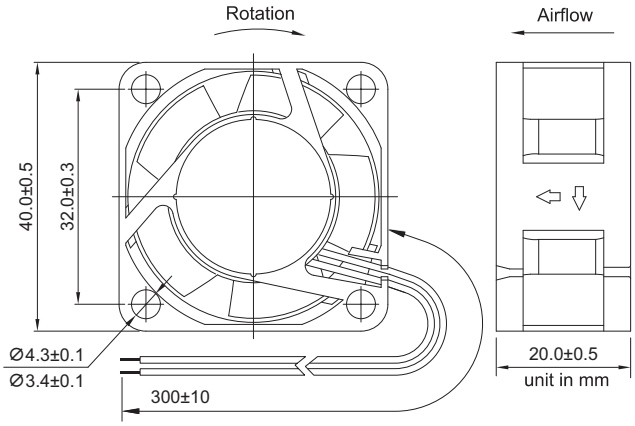
Bearing System Available
2B **L** S

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-H_2O**
- **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_2O	mA	W	Hour		dB(A)
YW04020005LL-N	L	05	4~5.5	4500	6.08	2.81	60	0.30	50000	4	<17.0
YW04020005LM-N	L		4~5.5	6000	8.06	5.02	100	0.50	50000	3	22.0
YW04020005LH-N	L		4~5.5	7500	10.04	7.87	170	0.85	50000	2	26.5
YW04020005BS-N	2B		4~5.5	8500	11.36	10.12	210	1.05	65000	1	29.5
YW04020012LL2-N	L	12	7~13.2	4000	5.42	2.21	30	0.36	50000	5	<17.0
YW04020012LL-N	L		7~13.2	4500	6.08	2.81	40	0.48	50000	4	<17.0
YW04020012LM-N	L		7~13.2	6000	8.06	5.02	60	0.72	50000	3	22.0
YW04020012LH-N	L		7~13.2	7500	10.04	7.87	110	1.32	50000	2	26.5
YW04020012BS-N	2B		7~13.2	8500	11.36	10.12	140	1.68	65000	1	29.5
YW04020024LL-N	L	24	15~26.4	4500	6.08	2.81	30	0.72	50000	4	<17.0
YW04020024LM-N	L		12~26.4	6000	8.06	5.02	45	1.08	50000	3	22.0
YW04020024LH-N	L		12~26.4	7500	10.04	7.87	60	1.44	50000	2	26.5
YW04020024LS-N	2B		12~26.4	8500	11.36	10.12	85	2.04	65000	1	29.5

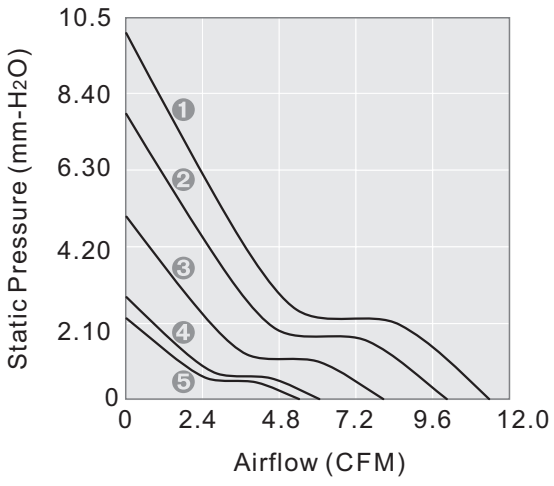
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

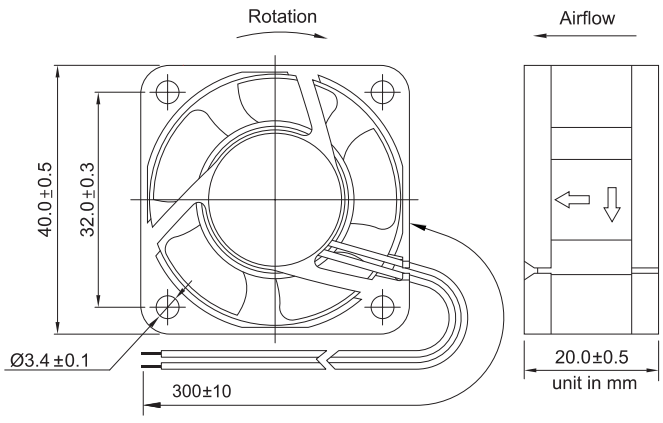
Bearing System Available
2B L S

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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW04028012BM-E	2B	12	7~13.2	17000	23.61	44.66	600	7.20	80000	4	52.5
XYW04028012BH-E	2B		7~13.2	19000	26.26	50.78	900	10.80	75000	3	56.0
XYW04028012BS-E	2B		7~13.2	21000	29.57	56.02	1200	14.40	65000	2	58.0
XYW04028012BSS-E	2B		7~13.2	23500	33.68	62.52	1800	21.60	65000	1	61.0

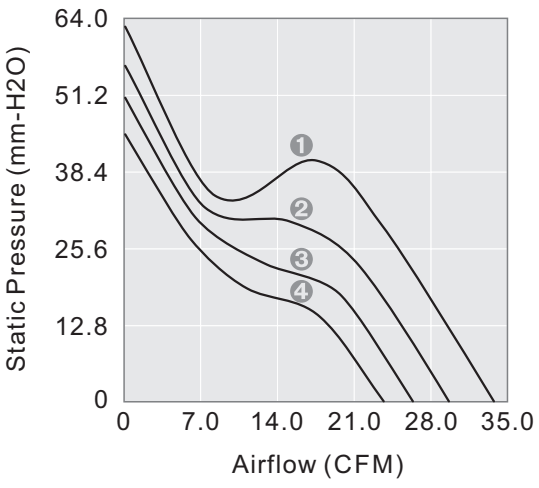
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

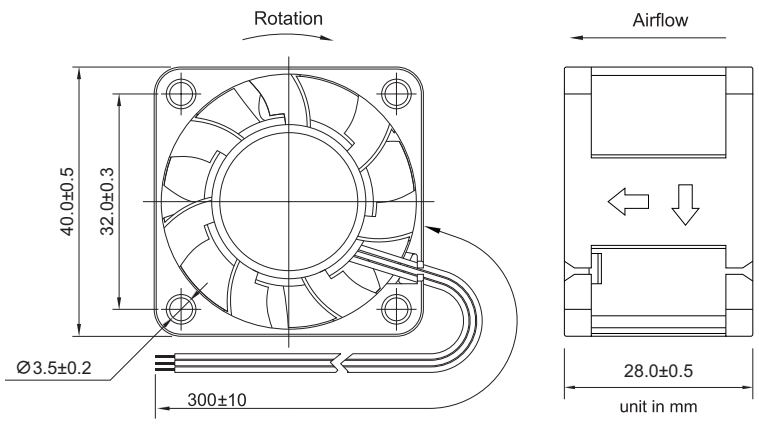
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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-H2O	mA	W	Hour		dB(A)
YW04510005SL	S	05	4~5.5	4900	7.6	2.5	150	0.75	30000	3	28.5
YW04510005SM	S		4~5.5	5300	8.5	3.0	170	0.85	30000	2	30.5
YW04510005SH	S		4~5.5	6300	10.0	4.0	240	1.20	25000	1	35.5
YW04510012BL	2B		4~5.5	5100	8.49	3.1	150	0.75	80000	3	29.0
YW04510012BM	2B		4~5.5	5500	8.7	3.4	170	0.85	80000	2	31.5
YW04510012BH	2B		4~5.5	6500	10.3	4.8	240	1.20	75000	1	37.0
YW04510012SL	S	12	7~13.2	4900	7.6	2.5	90	1.08	30000	3	28.5
YW04510012SM	S		7~13.2	5300	8.5	3.0	120	1.44	30000	2	30.5
YW04510012SH	S		7~13.2	6300	10.0	4.0	140	1.68	25000	1	35.5
YW04510012BL	2B		7~13.2	5100	8.49	3.1	90	1.08	80000	3	29.0
YW04510012BM	2B		7~13.2	5500	8.7	3.4	120	1.44	80000	2	31.5
YW04510012BH	2B		7~13.2	6500	10.3	4.8	140	1.68	75000	1	37.0

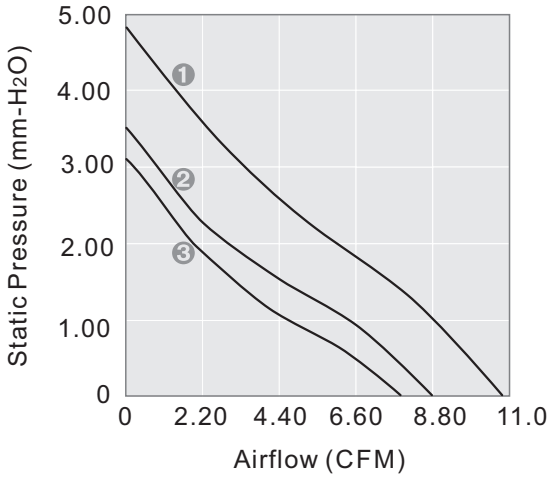
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

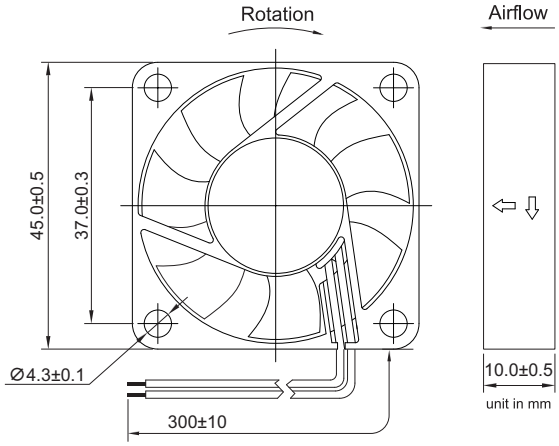
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW05010005LL	L	05	4.5~5.5	3500	8.3	1.0	85	0.43	50000	3	21.8
NYW05010005LM	L		4.5~5.5	4500	10.9	2.0	140	0.70	50000	2	27.3
NYW05010005LH	L		4.5~5.5	5500	13.5	3.2	240	1.20	50000	1	31.7
NYW05010012BL	2B	12	7~13.2	3500	8.3	1.0	60	0.72	80000	3	21.8
NYW05010012BM	2B		7~13.2	4500	10.9	2.0	90	1.08	80000	2	27.3
NYW05010012BH	2B		7~13.2	5500	13.5	3.2	125	1.50	75000	1	31.7
NYW05010012LL	L		7~13.2	3500	8.3	1.0	60	0.72	50000	3	21.8
NYW05010012LM	L		7~13.2	4500	10.9	2.0	100	1.20	50000	2	27.3
NYW05010012LH	L		7~13.2	5500	13.5	3.2	180	2.16	50000	1	31.7
NYW05010012SL	S		7~13.2	3500	8.3	1.0	60	0.72	30000	3	21.8
NYW05010012SM	S		7~13.2	4500	10.9	2.0	90	1.08	30000	2	27.3
NYW05010012SH	S		7~13.2	5500	13.5	3.2	125	1.50	25000	1	31.7

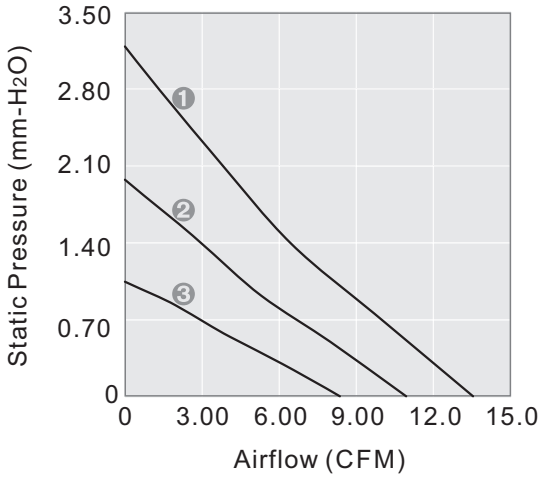
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

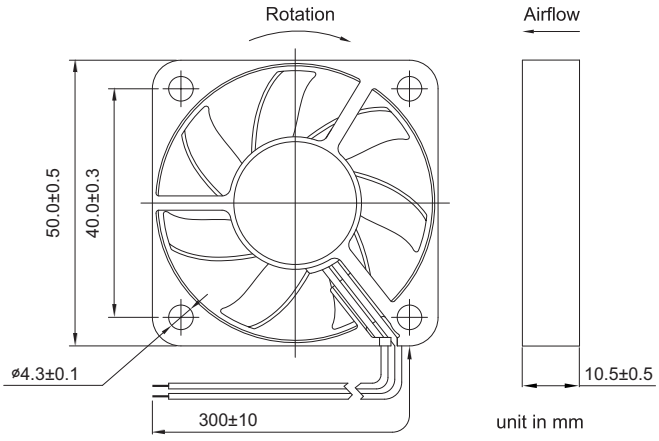
Bearing System Available
2B L S

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-H2O	mA	W	Hour		dB(A)
YW05015005BL	2B	05	4~5.5	3800	12.0	2.0	180	0.90	80000	4	24.5
YW05015005BM	2B		4~5.5	4500	13.1	3.2	250	1.25	80000	3	29.5
YW05015005BL	2B		4~5.5	5000	15.5	3.6	285	1.43	75000	2	31.5
YW05015012BL	2B	12	7~13.2	3800	12.0	2.0	85	1.02	80000	4	24.5
YW05015012BM	2B		7~13.2	4500	13.1	3.2	130	1.56	80000	3	30.0
YW05015012BH	2B		7~13.2	5000	15.5	3.6	170	2.04	75000	2	31.5
YW05015012BS	2B		7~13.2	5500	17.1	4.4	220	2.64	65000	1	36.5
YW05015024BL	2B	24	12~26.4	3800	12.0	2.0	70	1.68	80000	4	24.5
YW05015024BM	2B		12~26.4	4500	13.1	3.2	80	1.92	80000	3	30.0
YW05015024BH	2B		12~26.4	5000	15.5	3.6	90	2.16	75000	2	31.5
YW05015024BS	2B		12~26.4	5500	17.1	4.4	110	2.64	65000	1	36.5

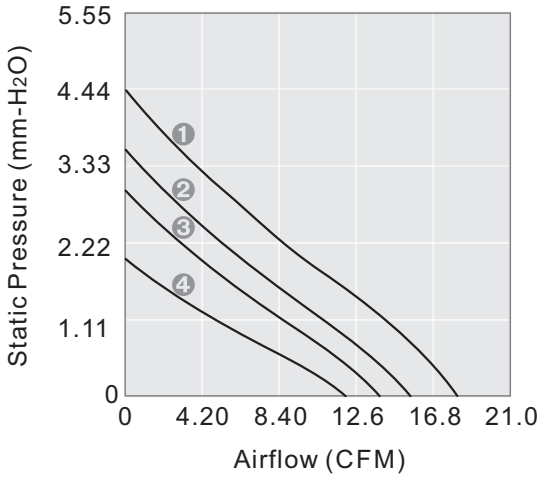
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

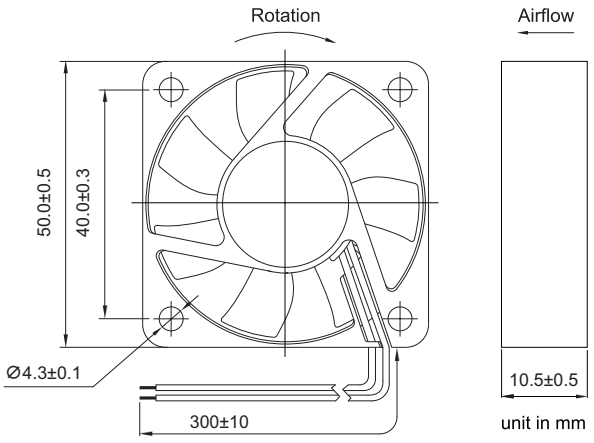
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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**

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-H2O	mA	W	Hour		dB(A)
NYW05015012BH	2B	12	9~16.0	5000	11.0	3.6	120	1.44	75000	1	30.4
NYW05015024BH	2B	24	18~30.0	5000	11.0	3.6	35	0.84	75000	1	30.4

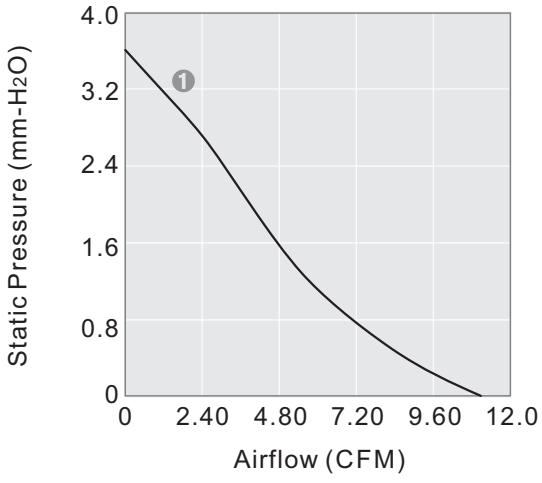
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

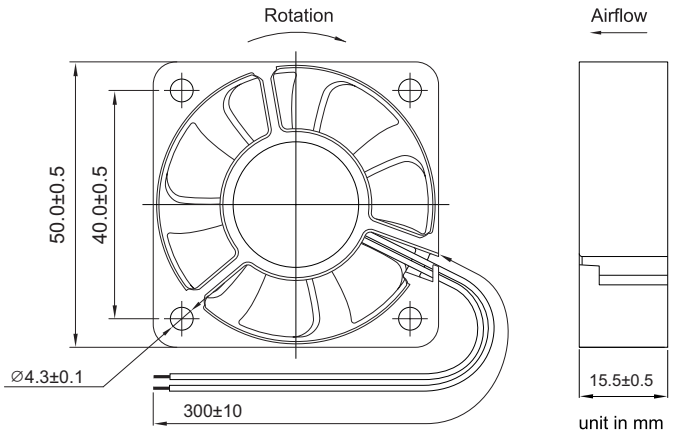
Bearing System Available
2B L S

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.

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-H2O	mA	W	Hour		dB(A)
YW05020012SL	S	12	7~13.2	3500	8.9	2.1	60	0.72	30000	3	22.5
YW05020012SM	S		7~13.2	4300	11.0	4.0	90	1.08	30000	2	25.0
YW05020012SH	S		7~13.2	5300	13.2	4.7	110	1.32	25000	1	30.0
YW05020012LL	L		7~13.2	3500	8.9	2.1	75	0.90	50000	3	22.5
YW05020012LM	L		7~13.2	4300	11.0	4.0	100	1.20	50000	2	25.0
YW05020012LH	L		7~13.2	5300	13.2	4.7	130	1.56	50000	1	30.0
YW05020012BL	2B		7~13.2	3900	10.0	2.5	60	0.72	80000	3	23.5
YW05020012BM	2B		7~13.2	4800	12.2	4.0	90	1.08	80000	2	28.0
YW05020012BH	2B		7~13.2	5600	14.0	5.5	110	1.32	75000	1	32.5

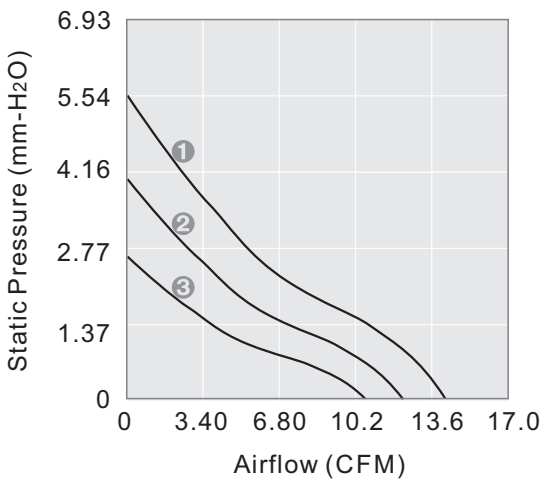
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

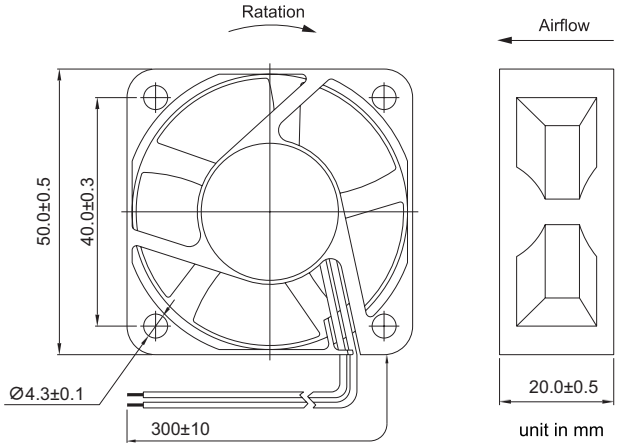
Bearing System Available
2B L S

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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW06010005BL	2B	05	4~5.5	3800	17.3	2.1	260	1.30	80000	3	33.0
YW06010012BL	2B		7~13.2	3800	17.3	2.1	140	1.68	80000	3	33.0
YW06010012BM	2B		7~13.2	4500	21.0	3.0	170	2.04	80000	2	38.0
YW06010012BH	2B		7~13.2	5200	23.3	4.0	240	2.88	75000	1	41.0
YW06010012LH	L	12	7~13.2	5200	23.3	4.0	175	2.10	50000	1	41.0
YW06010012SL	S		7~13.2	3800	17.3	2.1	140	1.68	30000	3	37.5
YW06010012SM	S		7~13.2	4500	21.0	3.0	170	2.04	30000	2	38.0
YW06010012SH	S		7~13.2	5200	23.3	4.0	240	2.88	25000	1	41.0

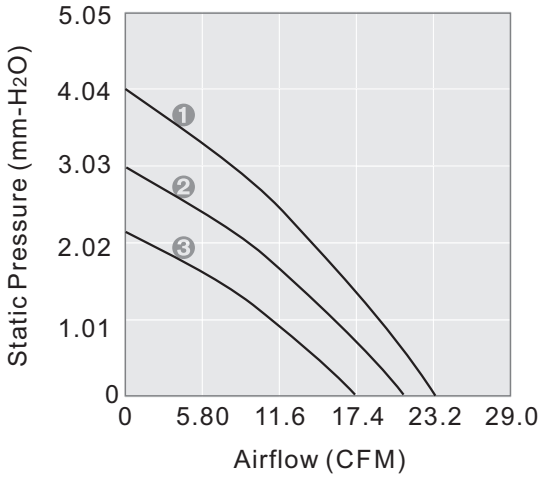
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

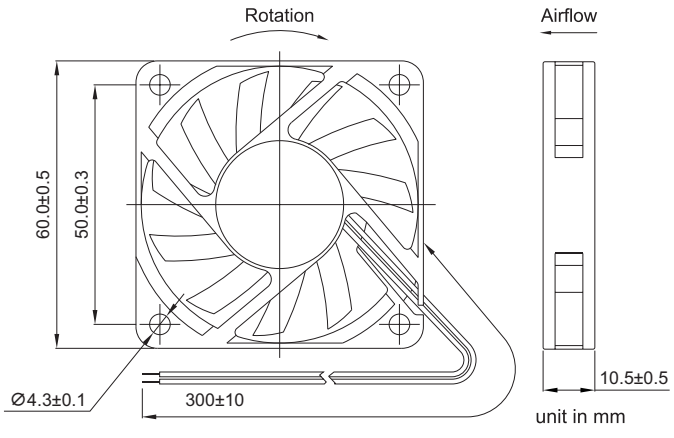
Bearing System Available
2B L S

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-H2O	mA	W	Hour		dB(A)
NYW06015005SL	S	05	4~5.5	3000	14.3	1.7	110	0.55	30000	5	24.0
NYW06015005SM	S		4~5.5	3900	19.8	3.7	210	1.05	30000	4	33.5
NYW06015005SH	S		4~5.5	4700	23.9	4.5	320	1.60	25000	3	38.0
NYW06015012BL	2B	12	7~13.2	3200	15.2	2.0	100	1.20	80000	5	25.0
NYW06015012BM	2B		7~13.2	4000	20.3	3.9	160	1.92	80000	4	34.0
NYW06015012BH	2B		7~13.2	4700	23.9	4.5	220	2.64	75000	3	38.0
NYW06015012BS	2B		7~13.2	5200	26.4	5.0	270	3.24	65000	2	40.0
NYW06015012BSS	2B		7~13.2	6000	30.4	6.9	400	4.80	65000	1	43.0
NYW06015012SL	S		7~13.2	3000	14.3	1.7	80	0.96	30000	5	24.0
NYW06015012SM	S		7~13.2	3800	19.3	3.5	140	1.68	30000	4	33.0
NYW06015012SH	S		7~13.2	4700	23.9	4.5	220	2.64	25000	3	38.0
NYW06015012SS	S		7~13.2	5000	25.4	4.6	250	3.00	20000	2	39.0
NYW06015024BL	2B	24	12~26.4	3200	15.2	2.0	70	1.68	80000	5	25.0
NYW06015024BM	2B		12~26.4	4000	20.3	3.9	110	2.64	80000	4	34.0
NYW06015024BH	2B		12~26.4	4700	23.9	4.5	145	3.48	75000	3	38.0
NYW06015024BS	2B		12~26.4	5200	26.4	5.0	180	4.32	65000	2	40.0
NYW06015024SL	S		12~26.4	3000	14.3	1.7	90	2.16	30000	5	24.0
NYW06015024SM	S		12~26.4	3800	19.3	3.5	110	2.64	30000	4	32.8
NYW06015024SH	S		12~26.4	4500	23.6	3.9	120	2.88	25000	3	34.8
NYW06015024SS	S		12~26.4	5000	25.4	4.6	180	4.32	20000	2	39.0

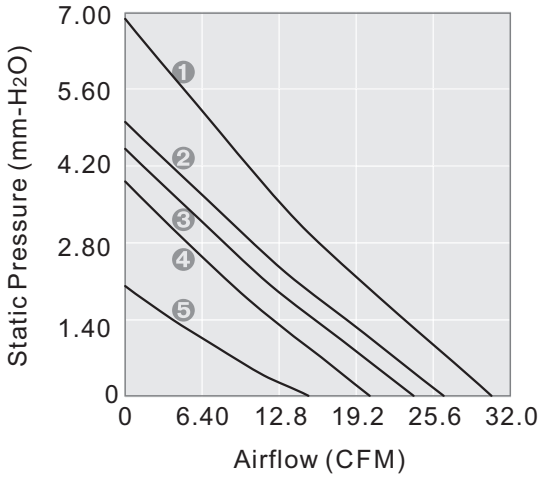
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

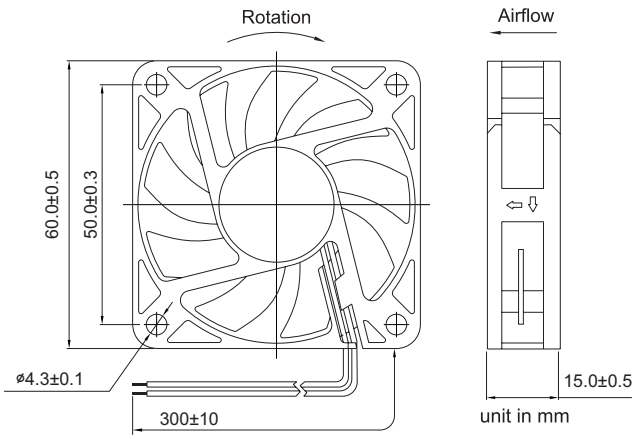
Bearing System Available
2B L S

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: 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-H2O	mA	W	Hour		dB(A)
EYW06015005LL	L	05	4~5.5	3300	14.1	2.0	130	0.65	50000	5	22.0
EYW06015005LM	L		4~5.5	4100	18.0	3.0	200	1.00	50000	4	28.4
EYW06015005LH	L		4~5.5	4800	20.9	3.9	360	1.80	50000	3	33.0
EYW06015012BL	2B	12	7~13.2	3300	14.1	2.0	55	0.66	80000	5	22.0
EYW06015012BM	2B		7~13.2	4100	18.0	3.0	100	1.20	80000	4	28.4
EYW06015012BH	2B		7~13.2	4800	20.9	3.9	130	1.56	75000	3	33.0
EYW06015012BS	2B		7~13.2	5300	23.5	5.0	150	1.80	65000	2	35.0
EYW06015012BSS	2B		7~13.2	6100	27.0	6.5	230	2.76	65000	1	38.0
EYW06015012LL	L		7~13.2	3300	14.1	2.0	70	0.84	50000	5	22.0
EYW06015012LM	L		7~13.2	4100	18.0	3.0	100	1.20	50000	4	28.4
EYW06015012LH	L		7~13.2	4800	20.9	3.9	130	1.56	50000	3	33.0
EYW06015012LS	L		7~13.2	5300	23.5	5.0	150	1.80	50000	2	35.0
EYW06015012LSS	L		7~13.2	6100	27.0	6.5	260	3.12	50000	1	38.0
EYW06015024BL	2B	24	12~26.4	3300	14.1	2.0	25	0.60	80000	5	22.0
EYW06015024BM	2B		12~26.4	4100	18.0	3.0	40	0.96	80000	4	28.4
EYW06015024BH	2B		12~26.4	4800	20.9	3.9	55	1.32	75000	3	33.0
EYW06015024BS	2B		12~26.4	5300	23.5	5.0	70	1.68	65000	2	35.0
EYW06015024LL	L		12~26.4	3300	14.1	2.0	25	0.60	50000	5	22.0
EYW06015024LM	L		12~26.4	4100	18.0	3.0	40	0.96	50000	4	28.4
EYW06015024LH	L		12~26.4	4800	20.9	3.9	55	1.32	50000	3	33.0
EYW06015024LS	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

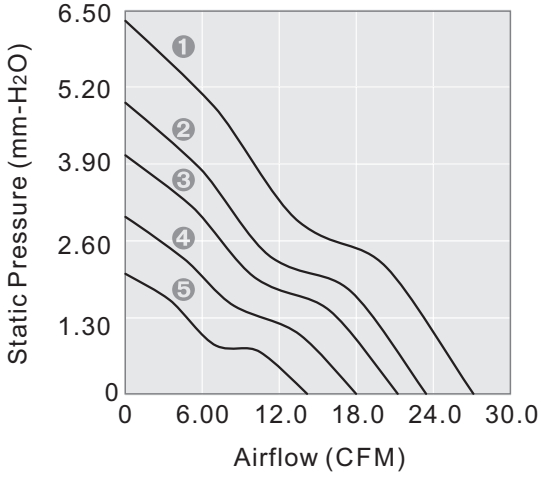
Bearing System Available

2B L S

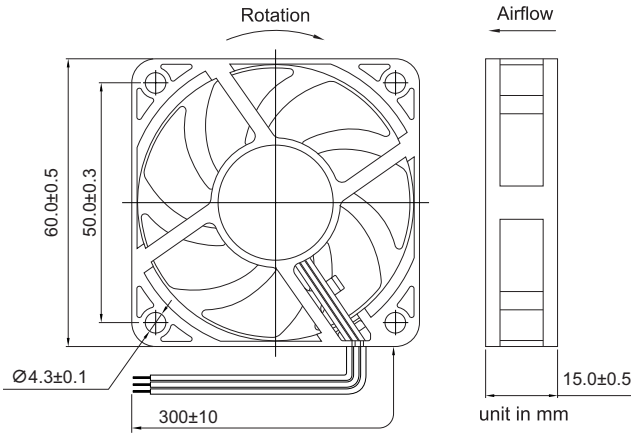
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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.ystechusa.com* for updated information. Customized Specifications are designed accordingly

60x60x20mm

- **Airflow: 17.0~29.1 CFM**
- **Static Pressure:2.4~7.0 mm-H_2O**
- **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_2O	mA	W	Hour		dB(A)
YW06020012BL	2B	12	7~13.2	3000	17.0	2.4	80	0.96	80000	4	26.0
YW06020012BL	2B		7~13.2	3600	20.0	3.4	110	1.32	80000	3	30.0
YW06020012BH	2B		7~13.2	4200	22.9	4.4	160	1.92	75000	2	35.0
YW06020012BS	2B		7~13.2	5300	29.1	7.0	280	3.36	65000	1	41.0
YW06020012SL	S		7~13.2	2800	15.2	2.0	80	0.96	30000	4	25.0
YW06020012SM	S		7~13.2	3400	18.0	2.7	110	1.32	30000	3	28.0
YW06020012SH	S		7~13.2	4000	21.8	4.0	160	1.92	25000	2	35.0
YW06020012SS	S		7~13.2	5300	29.2	7.0	250	3.00	25000	1	41.0
YW06020024BL	2B	24	12~26.4	3000	17.0	2.4	40	0.96	80000	4	26.0
YW06020024BM	2B		12~26.4	3600	20.0	3.4	70	1.68	80000	3	30.0
YW06020024BH	2B		12~26.4	4200	22.9	4.4	80	1.92	75000	2	35.0
YW06020024SM	S		12~26.4	3400	18.0	2.7	70	1.68	30000	3	28.0
YW06020024SH	S		12~26.4	4000	21.8	4.0	80	1.92	25000	2	35.0

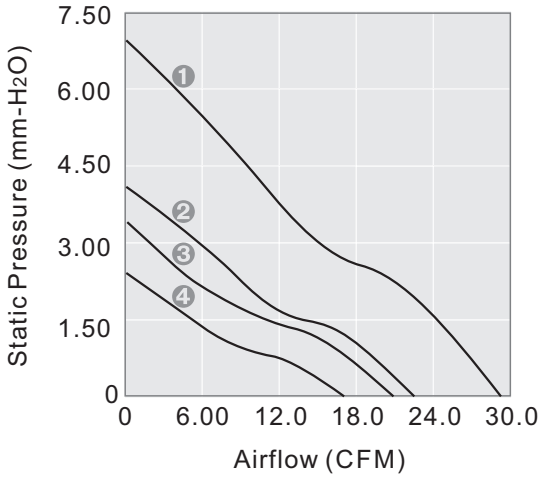
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

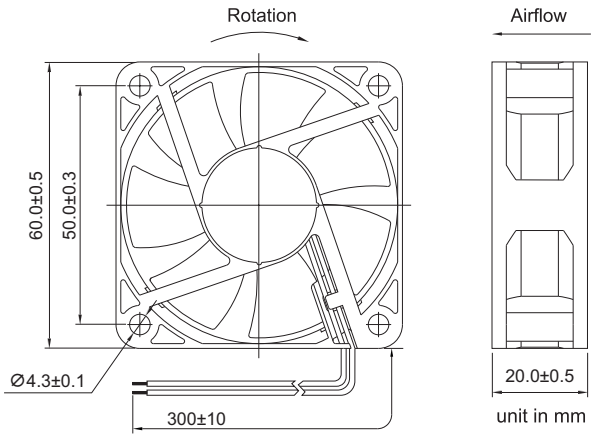
Bearing System Available
2B L **S**

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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-H2O	mA	W	Hour		dB(A)
NYW06025012BL	2B	12	7~13.2	2800	15.8	2.4	80	0.96	80000	5	23.5
NYW06025012BM	2B		7~13.2	3700	20.0	3.8	120	1.44	80000	4	29.5
NYW06025012BH	2B		7~13.2	4300	25.4	5.5	150	1.80	75000	3	34.0
NYW06025012BS	2B		7~13.2	5200	29.3	6.3	210	2.52	65000	2	40.5
NYW06025012BSS	2B		7~13.2	6800	40.1	14.2	330	3.96	65000	1	48.0
NYW06025024BL	2B	24	12~26.4	2800	15.8	2.4	50	1.20	80000	5	23.5
NYW06025024BM	2B		12~26.4	3700	20.0	3.8	70	1.68	80000	4	29.5
NYW06025024BH	2B		12~26.4	4300	25.4	5.5	90	2.16	75000	3	34.0
NYW06025024BS	2B		12~26.4	5200	29.3	6.3	110	2.64	65000	2	40.5
NYW06025024BSS	2B		12~26.4	6800	40.1	14.2	210	5.04	65000	1	48.0
NYW06025048BL	2B	48	24~56.0	2800	15.8	2.4	30	1.44	80000	5	23.5
NYW06025048BM	2B		24~56.0	3700	20.0	3.8	45	2.16	80000	4	29.5
NYW06025048BH	2B		24~56.0	4300	25.4	5.5	50	2.40	75000	3	34.0
NYW06025048BS	2B		24~56.0	5200	29.3	6.3	80	3.84	65000	2	40.5

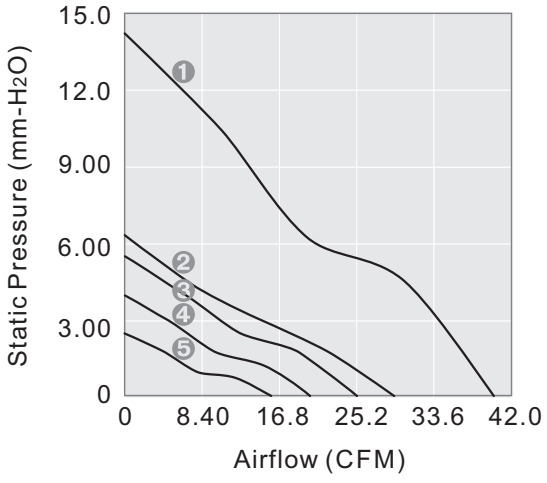
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

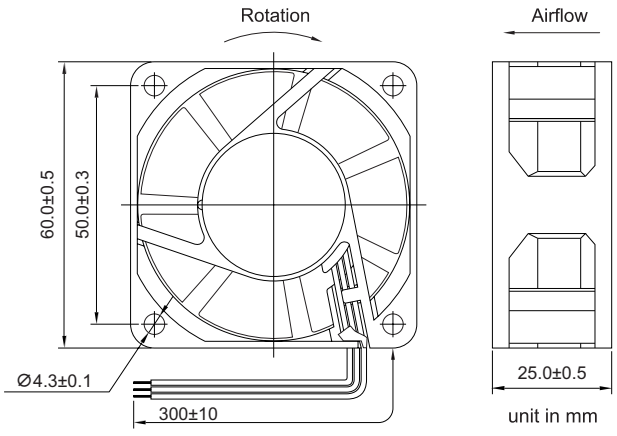
Bearing System Available
2B L S

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-H2O	mA	W	Hour		dB(A)
NYW06025012BL-W	2B	12	7~13.2	3000	14.4	5.0	50	0.60	80000	9	25.0
NYW06025012BM-W	2B		7~13.2	4100	19.7	7.5	80	0.96	80000	8	31.0
NYW06025012BH-W	2B		7~13.2	5100	24.5	9.3	120	1.44	75000	7	36.0
NYW06025012BS-W	2B		7~13.2	5600	26.9	10.2	150	1.80	65000	6	38.1
NYW06025012BSS-W	2B		7~13.2	6500	31.2	11.8	190	2.28	65000	5	41.0
NYW06025012BF-W	2B		7~13.2	7500	35.9	13.2	300	3.60	65000	4	44.5
NYW06025012BG-W	2B		7~13.2	8500	40.6	17.4	420	5.04	65000	3	47.0
NYW06025012BJ-W	2B		7~13.2	9500	45.4	22.2	630	7.56	65000	2	49.5
NYW06025012BU-W	2B		7~13.2	10500	50.2	27.6	900	10.80	65000	1	51.5
NYW06025024BL-W	2B	24	12~26.4	3000	14.4	5.0	35	0.84	80000	9	25.0
NYW06025024BM-W	2B		12~26.4	4100	19.7	7.5	55	1.32	80000	8	31.0
NYW06025024BH-W	2B		12~26.4	5100	24.5	9.3	75	1.80	75000	7	36.0
NYW06025024BSS-W	2B		12~26.4	6500	31.2	11.8	110	2.64	65000	5	41.0
NYW06025024BU-W	2B		12~26.4	10500	50.2	27.6	410	9.84	65000	1	51.5
NYW060250148BL-W	2B	48	24~56.0	3000	14.4	5.0	30	1.44	80000	9	25.0
NYW060250148BM-W	2B		24~56.0	4100	19.7	7.5	40	1.92	80000	8	31.0
NYW060250148BH-W	2B		24~56.0	5100	24.5	9.3	55	2.64	75000	7	36.0
NYW060250148BSS-W	2B		24~56.0	6800	32.7	12.4	80	3.84	65000	5	42.0
NYW060250148BU-W	2B		24~56.0	10500	50.2	27.6	240	11.52	65000	1	51.5

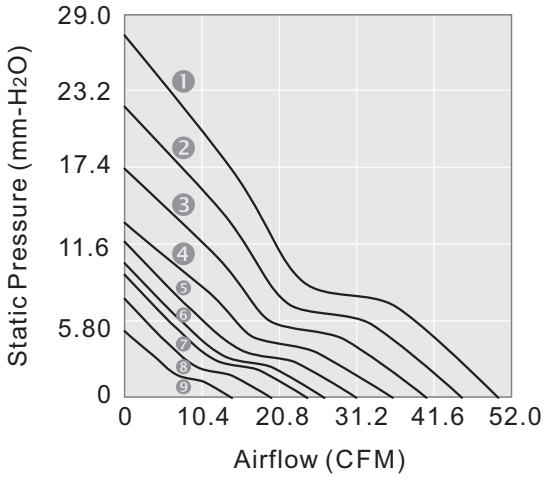
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

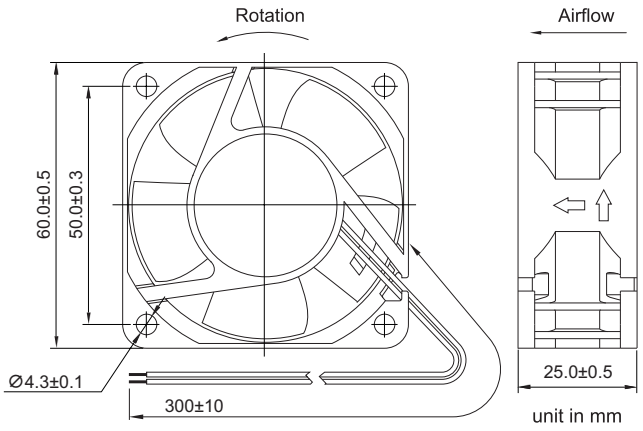
Bearing System Available
2B **L** S

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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60x60x38mm

- **Airflow: 26.7~45.5 CFM**
- **Static Pressure: 8.1~22.9 mm-H_2O**
- **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_2O	mA	W	Hour		dB(A)
XYW06038012BL	2B	12	7~13.2	4500	26.7	8.1	190	2.28	80000	4	41.0
XYW06038012BM	2B		7~13.2	5500	32.6	12.2	260	3.12	80000	3	47.0
XYW06038012BH	2B		7~13.2	6500	38.5	16.5	450	5.40	75000	2	51.0
XYW06038012BS	2B		7~13.2	7500	45.5	22.9	720	8.64	65000	1	55.0
XYW06038024BL	2B	24	12~26.4	4500	26.7	8.1	110	2.64	80000	4	41.0
XYW06038024BM	2B		12~26.4	5500	32.6	12.2	170	4.08	80000	3	47.0
XYW06038024BH	2B		12~26.4	6500	38.5	16.5	250	6.00	75000	2	51.0
XYW06038024BS	2B		12~26.4	7500	45.5	22.9	360	8.64	65000	1	55.0
XYW06038048BL	2B	48	24~56.0	4500	26.7	8.1	70	3.36	80000	4	41.0
XYW06038048BM	2B		24~56.0	5500	32.6	12.2	90	4.32	80000	3	47.0
XYW06038048BH	2B		24~56.0	6500	38.5	16.5	130	6.24	75000	2	51.0
XYW06038048BS	2B		24~56.0	7500	45.5	22.9	190	9.12	65000	1	55.0

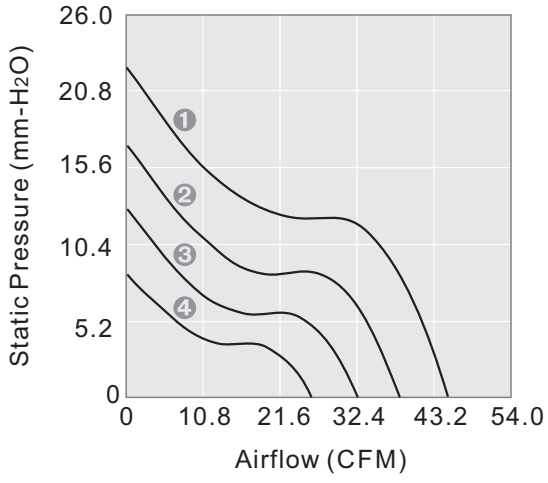
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

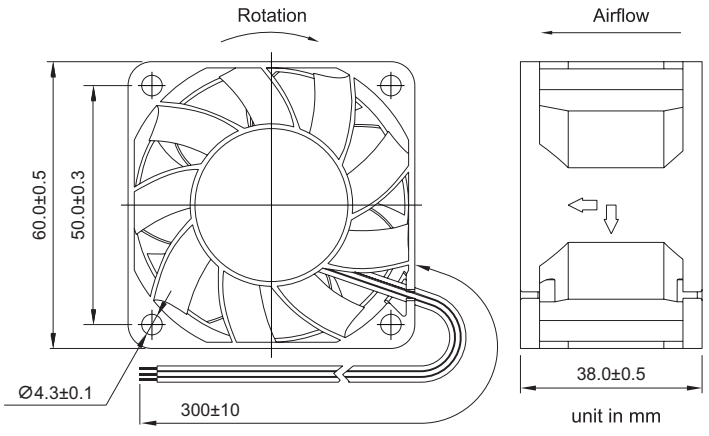
Bearing System Available
2B L S

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**

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-H2O	mA	W	Hour		dB(A)
YW08015012BL-Q	2B	12	7~13.2	2100	23.5	1.4	70	0.84	80000	5	19.0
YW08015012BM-Q	2B		7~13.2	2600	29.1	1.9	100	1.20	80000	4	27.0
YW08015012BH-Q	2B		7~13.2	3200	35.8	2.7	190	2.28	75000	3	33.0
YW08015012BS-Q	2B		7~13.2	3900	43.6	4.3	250	3.00	65000	2	38.5
YW08015012BSS-Q	2B		7~13.2	4500	50.2	5.8	380	4.56	65000	1	42.0
YW08015012LL-Q	L		7~13.2	2100	23.5	1.4	90	1.08	50000	5	19.0
YW08015012LM-Q	L		7~13.2	2600	29.1	1.9	140	1.68	50000	4	27.0
YW08015012LH-Q	L		7~13.2	3200	35.8	2.7	250	3.00	50000	3	30.5
YW08015012LS-Q	L		7~13.2	3900	43.6	4.3	330	3.96	50000	2	35.0

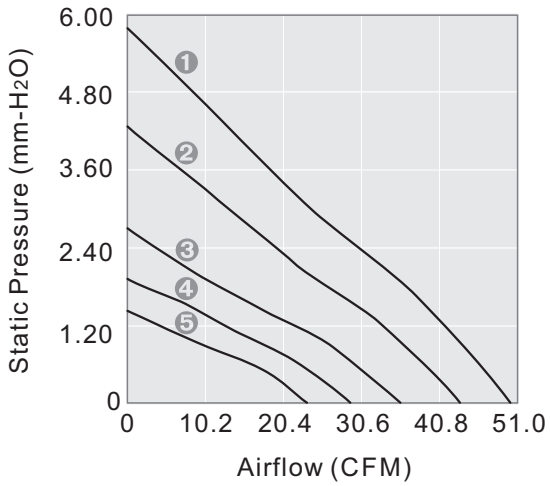
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

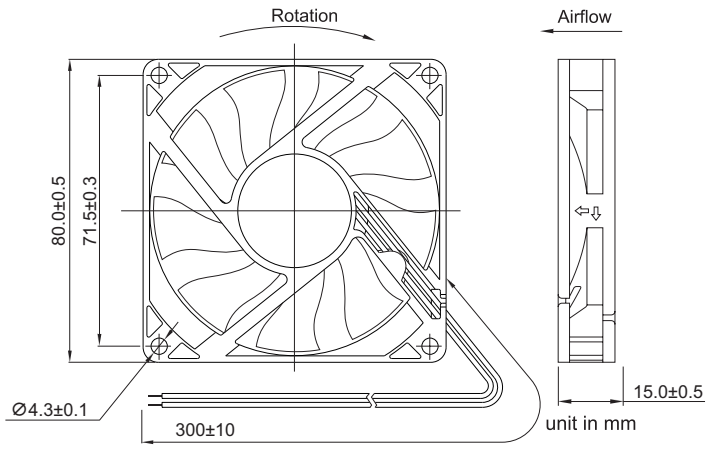
Bearing System Available
2B **L** S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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.

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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW08020012BL	2B	12	7~13.2	2100	23.3	1.4	100	1.20	80000	4	22.9
YW08020012BM	2B		7~13.2	2600	31.0	2.2	110	1.32	80000	3	27.0
YW08020012BH	2B		7~13.2	3100	36.9	3.2	150	1.80	75000	2	33.5
YW08020012BS	2B		7~13.2	3600	45.2	4.4	200	2.40	65000	1	38.0
YW08020012LL	L		7~13.2	1900	22.8	1.3	50	0.60	50000	4	22.5
YW08020012LM	L		7~13.2	2400	28.9	1.9	80	0.96	50000	3	25.0
YW08020012LH	L		7~13.2	2900	34.5	2.7	130	1.56	50000	2	29.1
YW08020012SL	S		7~13.2	1900	22.7	1.3	60	0.72	30000	4	22.5
YW08020012SM	S		7~13.2	2400	28.9	1.9	90	1.08	30000	3	25.0
YW08020012SH	S		7~13.2	2900	34.5	2.7	130	1.56	25000	2	29.5
YW08020024BL	2B	24	12~26.4	2100	23.3	1.4	50	1.20	80000	4	22.9
YW08020024BM	2B		12~26.4	2600	31.0	2.2	66	1.58	80000	3	27.0
YW08020024BH	2B		12~26.4	3100	36.9	3.2	100	2.40	75000	2	33.5
YW08020024SM	S		12~26.4	2400	28.9	1.9	70	1.68	30000	3	25.0
YW08020024SH	S		12~26.4	2900	34.5	2.7	100	2.40	25000	2	29.5

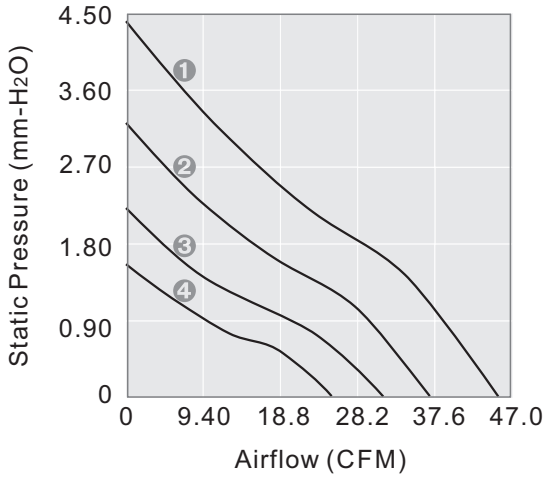
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

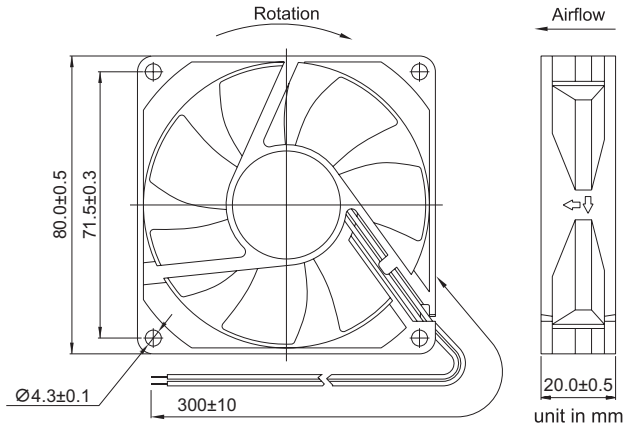
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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-H2O	mA	W	Hour		dB(A)
YW08025012SL	S	12	7~13.2	1900	27.9	1.3	100	1.20	30000	5	22.5
YW08025012SM	S		7~13.2	2400	35.4	2.1	160	1.92	30000	4	27.5
YW08025012SH	S		7~13.2	2900	43.7	2.9	230	2.76	25000	3	33.5
YW08025012SS	S		7~13.2	3200	47.4	3.6	260	3.12	20000	2	36.0
YW08025012BL	2B		7~13.2	2000	30.0	1.5	100	1.20	80000	5	23.5
YW08025012BM	2B		7~13.2	2500	37.0	2.1	160	1.92	80000	4	30.0
YW08025012BH	2B		7~13.2	3000	45.2	3.1	230	2.76	75000	3	34.5
YW08025012BS	2B		7~13.2	3300	48.5	3.8	260	3.12	65000	2	37.0
YW08025012BSS	2B		7~13.2	4000	59.8	5.4	450	5.40	65000	1	43.0
YW08025024BL	2B	24	12~26.4	2000	30.0	1.5	60	1.44	80000	5	23.5
YW08025024BM	2B		12~26.4	2500	37.0	2.2	80	1.92	80000	4	30.0
YW08025024BH	2B		12~26.4	3000	45.2	3.1	130	3.12	75000	3	34.5
YW08025024BS	2B		12~26.4	3300	48.5	3.8	150	3.60	65000	2	37.0
YW08025048BL	2B	48	24~56.0	2000	30.0	1.5	30	1.44	80000	5	23.5
YW08025048BM	2B		24~56.0	2500	37.0	2.2	50	2.40	80000	4	30.0
YW08025048BH	2B		24~56.0	3000	45.2	3.1	90	4.08	75000	3	34.5
YW08025048BS	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

05 12 24 48

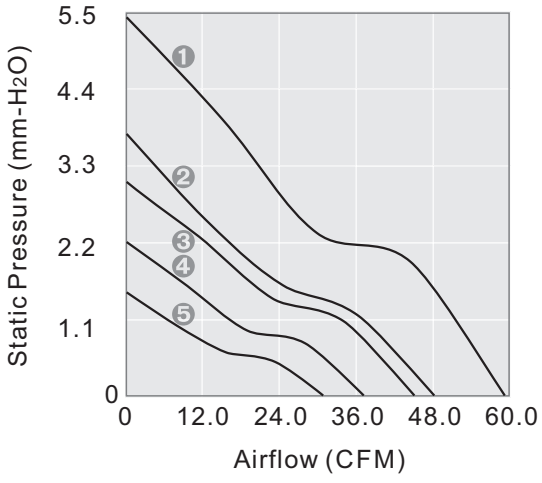
Bearing System Available

2B L S

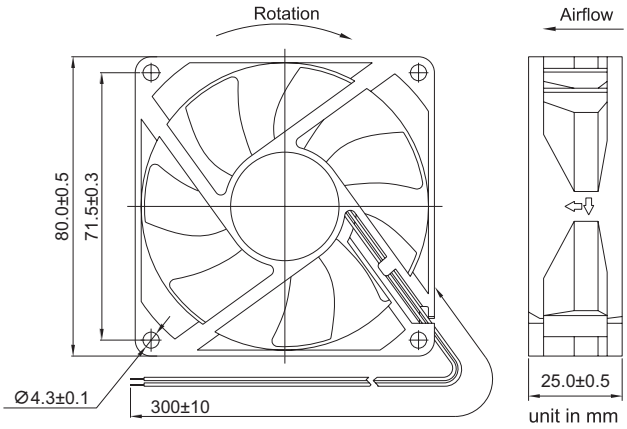
Function Available

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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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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
EYW08025012BL	2B	12	7~13.2	2000	31.4	2.0	100	1.20	80000	5	26.6
EYW08025012BM	2B		7~13.2	2300	36.2	2.6	130	1.56	80000	4	29.6
EYW08025012BH	2B		7~13.2	2700	42.3	3.5	190	2.28	75000	3	33.1
EYW08025012BS	2B		7~13.2	3100	48.4	4.6	280	3.36	65000	2	36.1
EYW08025012BSS	2B		7~13.2	3500	54.5	5.9	300	3.60	65000	1	38.7
EYW08025024BL	2B	24	12~26.4	2000	31.4	2.0	55	1.32	80000	5	26.6
EYW08025024BM	2B		12~26.4	2300	36.2	2.6	70	1.68	80000	4	29.6
EYW08025024BH	2B		12~26.4	2700	42.3	3.5	90	2.16	75000	3	33.1
EYW08025024BS	2B		12~26.4	3100	48.4	4.6	130	3.12	65000	2	36.1
EYW08025024BSS	2B		12~26.4	3500	54.5	5.9	140	3.36	65000	1	38.7
EYW08025048BL	2B	48	24~56.0	2000	31.4	2.0	40	1.92	80000	5	26.6
EYW08025048BM	2B		24~56.0	2300	36.2	2.6	50	2.40	80000	4	29.6
EYW08025048BH	2B		24~56.0	2700	42.3	3.5	70	3.36	75000	3	33.1
EYW08025048BS	2B		24~56.0	3100	48.4	4.6	90	4.32	65000	2	36.1
EYW08025048BSS	2B		24~56.0	3500	54.5	5.9	110	5.28	65000	1	38.7

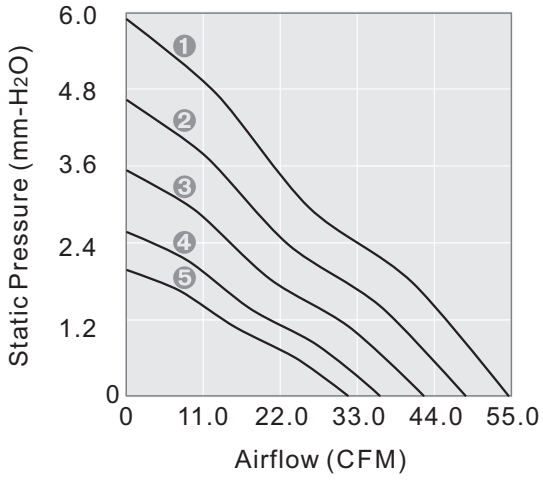
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

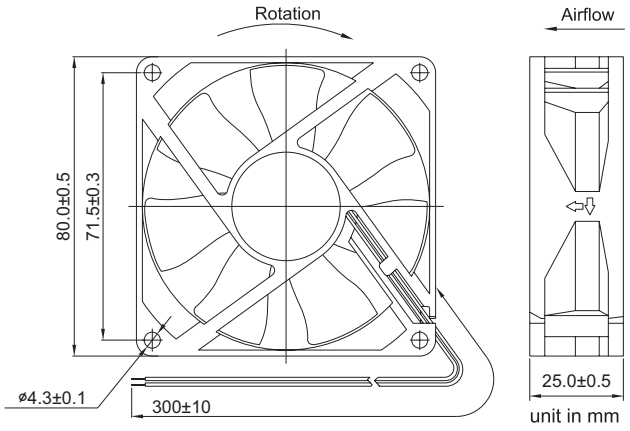
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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-H2O	mA	W	Hour		dB(A)
NYW08025012SL	S	12	7~13.2	2100	26.3	2.0	80	0.96	30000	6	26.0
NYW08025012SM	S		7~13.2	2600	32.7	3.1	130	1.56	30000	5	29.5
NYW08025012SH	S		7~13.2	3200	40.4	3.9	200	2.40	25000	4	35.5
NYW08025012SS	S		7~13.2	3500	46.0	5.2	250	3.00	20000	3	38.5
NYW08025012BL	2B		7~13.2	2300	28.8	2.2	80	0.96	80000	6	27.0
NYW08025012BM	2B		7~13.2	2900	36.9	3.6	130	1.56	80000	5	32.0
NYW08025012BH	2B		7~13.2	3400	41.7	4.5	140	1.68	75000	4	37.5
NYW08025012BS	2B		7~13.2	3700	48.5	5.8	250	3.00	65000	3	39.5
NYW08025012BSS	2B		7~13.2	4500	59.6	8.8	280	3.36	65000	2	44.0
NYW08025012BU	2B		7~13.2	5500	64.1	12.5	500	6.00	65000	1	48.0
NYW08025024BL	2B	24	12~26.4	2300	28.8	2.2	60	1.44	80000	6	27.0
NYW08025024BM	2B		12~26.4	2900	36.9	3.6	80	1.92	80000	5	32.0
NYW08025024BH	2B		12~26.4	3400	41.7	4.5	100	2.40	75000	4	37.5
NYW08025024BS	2B		12~26.4	3700	48.5	5.8	110	2.64	65000	3	39.5
NYW08025024BSS	2B		12~26.4	4500	59.6	8.8	200	4.80	65000	2	44.0
NYW08025048BL	2B	48	24~56.0	2900	36.9	3.6	45	2.16	80000	5	32.0
NYW08025048BM	2B		24~56.0	3400	41.7	4.5	80	3.84	75000	4	37.5
NYW08025048BH	2B		24~56.0	3700	48.5	5.9	90	4.08	75000	3	39.5

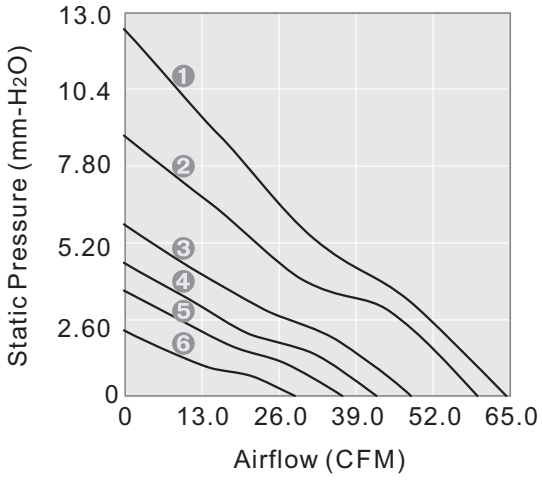
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

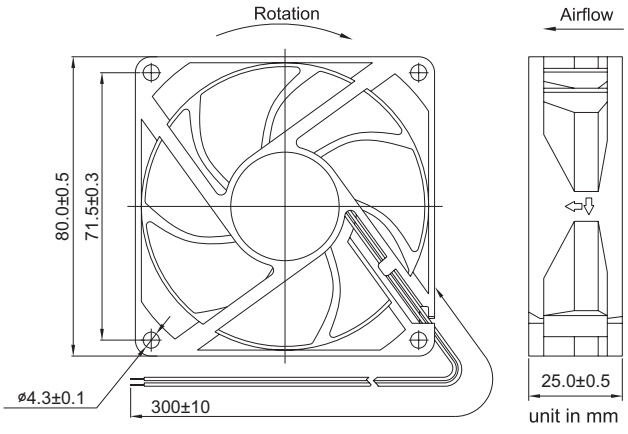
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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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-H2O	mA	W	Hour		dB(A)
HYW08025012BL	2B	12	7~13.2	3800	47.4	6.8	180	2.16	80000	5	39.5
HYW08025012BM	2B		7~13.2	4400	55.7	9.0	260	3.12	80000	4	43.5
HYW08025012BH	2B		7~13.2	5000	62.3	11.3	330	3.96	75000	3	46.7
HYW08025012BS	2B		7~13.2	5600	70.0	14.2	480	5.76	65000	2	50.0
HYW08025012BSS	2B		7~13.2	6200	80.0	17.2	600	7.20	65000	1	53.5
HYW08025024BL	2B	24	12~26.4	3800	47.4	6.8	100	2.40	80000	5	39.5
HYW08025024BM	2B		12~26.4	4400	55.7	9.0	130	3.12	80000	4	43.5
HYW08025024BH	2B		12~26.4	5000	62.3	11.3	180	4.32	75000	3	46.7
HYW08025024BS	2B		12~26.4	5600	70.0	14.2	220	5.28	65000	2	50.0
HYW08025024BSS	2B		12~26.4	6200	80.0	17.2	330	7.92	65000	1	53.5
HYW08025048BL	2B	48	24~56.0	3800	47.4	6.8	65	3.12	80000	5	39.5
	2B		24~56.0	4400	55.7	9.0	85	4.08	80000	4	43.5
HYW08025048BH	2B		24~56.0	5000	62.3	11.3	100	4.80	75000	3	46.7
HYW08025048BS	2B		24~56.0	5600	70.0	14.2	130	6.24	65000	2	50.0
HYW08025048BSS	2B		24~56.0	6200	80.0	17.2	160	7.68	65000	1	53.5

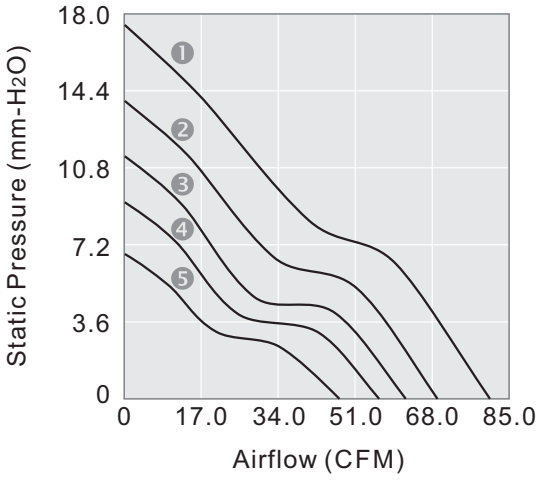
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

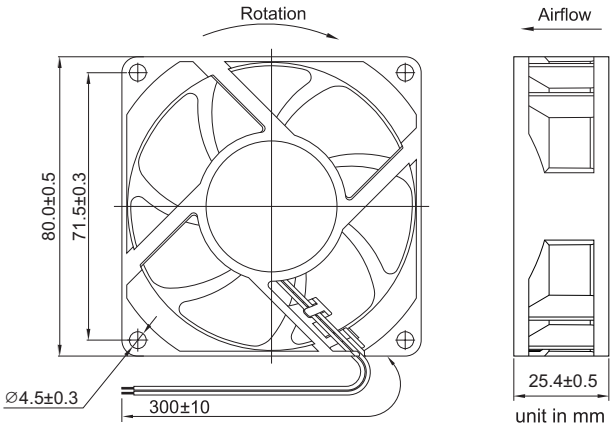
Bearing System Available
2B L S

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-H_2O**
- **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_2O	mA	W	Hour		dB(A)
EYW08032012BL	2B	12	7~13.2	6600	57.3	20.4	350	4.20	80000	5	49.6
EYW08032012BM	2B		7~13.2	7600	66.8	30.6	450	5.40	80000	4	53.5
EYW08032012BH	2B		7~13.2	8600	75.4	32.0	650	7.80	75000	3	56.7
EYW08032012BS	2B		7~13.2	9600	85.0	38.7	800	9.60	65000	2	58.6
EYW08032012BU	2B		7~13.2	11000	98.6	47.0	1240	14.88	65000	1	61.9
EYW08032024BL	2B	24	12~26.4	6600	57.3	20.4	180	4.32	80000	5	49.6
EYW08032024BM	2B		12~26.4	7600	66.8	30.6	260	6.24	80000	4	53.5
EYW08032024BH	2B		12~26.4	8600	75.4	32.0	340	8.16	75000	3	56.7
EYW08032024BS	2B		12~26.4	9600	85.0	38.7	420	10.08	65000	2	58.6
EYW08032024BU	2B		12~26.4	11000	98.6	47.0	700	16.80	65000	1	61.9

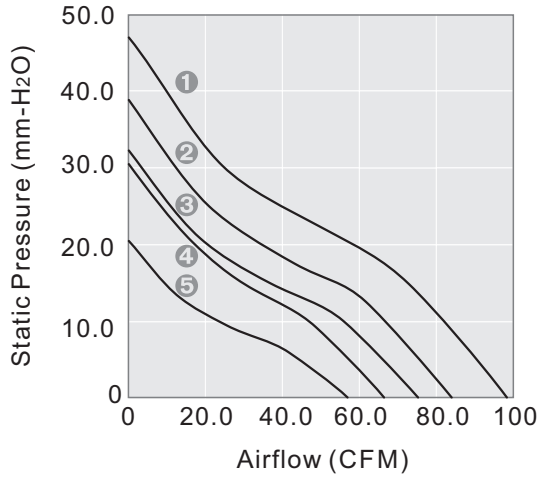
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

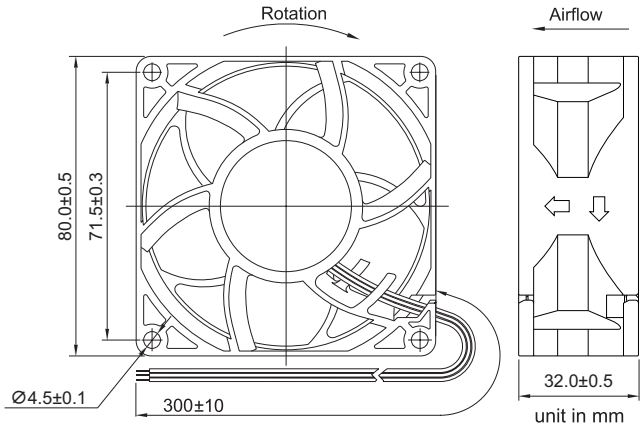
Bearing System Available
2B L S

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-H_2O**
- **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_2O	mA	W	Hour		dB(A)
EYW08038012BL	2B	12	7~14.0	7000	55.2	23.3	550	6.60	80000	5	50.0
EYW08038012BM	2B		7~14.0	9000	70.9	39.6	950	11.40	80000	4	56.0
EYW08038012BH	2B		7~14.0	11000	87.1	63.0	1550	18.60	75000	3	60.8
EYW08038012BS	2B		7~14.0	14000	111.6	102.1	2900	34.80	65000	2	67.5
EYW08038012BU	2B		7~14.0	17000	135.0	145.0	4800	57.60	65000	1	69.5
EYW08038024BL	2B	24	10~30.0	7000	55.2	23.3	300	7.20	80000	5	50.0
EYW08038024BM	2B		10~30.0	9000	70.9	39.6	450	10.80	80000	4	56.0
EYW08038024BH	2B		10~30.0	11000	87.1	63.0	730	16.80	75000	3	60.8
EYW08038024BS	2B		10~30.0	14000	111.6	102.1	1300	31.20	65000	2	67.5
EYW08038024BU	2B		10~30.0	17000	135.0	145.0	2300	55.20	65000	1	69.5
EYW08038048BL	2B	48	24~75.0	7000	55.2	23.3	200	9.60	80000	5	50.0
EYW08038048BM	2B		24~75.0	9000	70.9	39.6	270	12.96	80000	4	56.0
EYW08038048BH	2B		24~75.0	11000	87.1	63.0	360	17.28	75000	3	60.8
EYW08038048BS	2B		24~75.0	14000	111.6	102.1	700	33.60	65000	2	67.5
EYW08038048BU	2B		24~75.0	17000	135.0	145.0	1200	57.60	65000	1	69.5

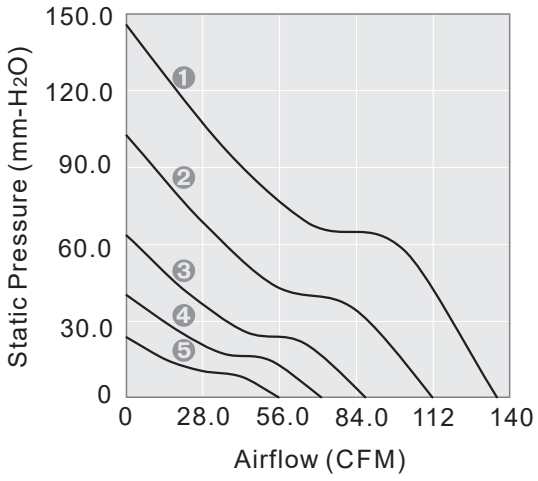
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

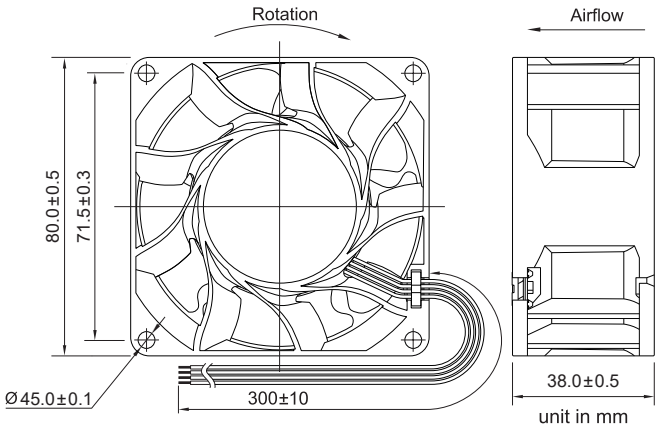
Bearing System Available
2B L S

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-H2O	mA	W	Hour		dB(A)
NYW09225012SL	S	12	7~13.2	2400	45.8	3.1	150	1.80	30000	5	32.5
NYW09225012SM	S		7~13.2	2800	53.5	4.3	220	2.64	30000	4	38.0
NYW09225012SH	S		7~13.2	3100	58.6	5.2	260	3.12	25000	3	40.0
NYW09225012SS	S		7~13.2	3500	67.3	5.9	340	4.08	20000	2	43.0
NYW09225012SSS	S		7~13.2	3800	73.4	7.3	470	5.64	20000	1	45.5
NYW09225012BL	2B		7~13.2	2400	45.8	3.1	150	1.80	80000	5	32.5
NYW09225012BM	2B		7~13.2	2800	53.5	4.3	220	2.64	80000	4	38.0
NYW09225012BH	2B		7~13.2	3100	58.6	5.2	260	3.12	75000	3	40.0
NYW09225012BS	2B		7~13.2	3500	67.3	5.9	340	4.08	65000	2	43.0
NYW09225012BSS	2B		7~13.2	3800	73.4	7.2	470	5.64	65000	1	45.5
NYW09225024BL	2B	24	12~26.4	2400	45.8	3.1	90	2.16	80000	5	32.5
NYW09225024BM	2B		12~26.4	2800	53.5	4.3	120	2.88	80000	4	38.0
NYW09225024BH	2B		12~26.4	3100	58.6	5.2	160	3.84	75000	3	40.0
NYW09225024BS	2B		12~26.4	3500	67.3	5.9	200	4.80	65000	2	43.0
NYW09225024BSS	2B		12~26.4	3800	73.4	7.3	270	6.48	65000	1	45.5
NYW09225048BL	2B	48	24~56.0	2400	45.8	3.1	55	2.64	80000	5	32.5
NYW09225048BM	2B		24~56.0	2800	53.5	4.3	80	3.84	80000	4	38.0
NYW09225048BH	2B		24~56.0	3100	58.6	5.2	100	4.80	75000	3	40.0
NYW09225048BS	2B		24~56.0	3500	67.3	5.9	150	7.20	65000	2	43.0

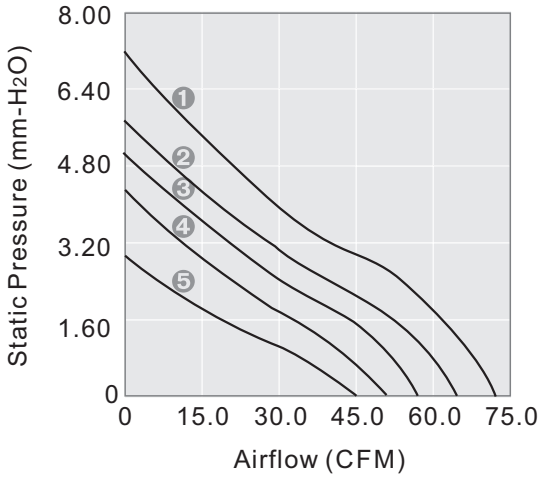
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

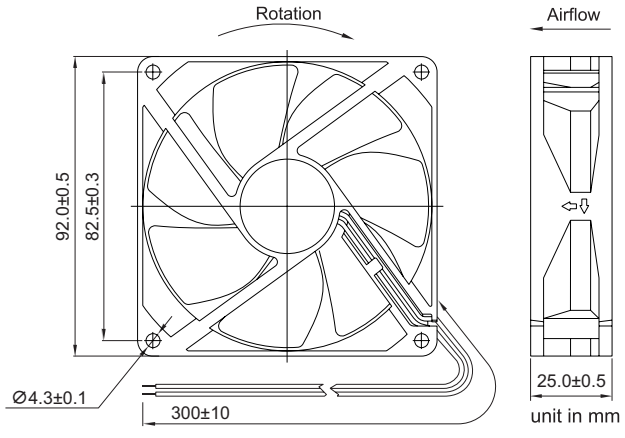
Bearing System Available
2B L S

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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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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW09225012SL	S	12	7~13.2	1800	38.1	1.5	100	1.20	30000	5	25.0
YW09225012SM	S		7~13.2	2300	48.7	2.2	160	1.92	30000	4	32.0
YW09225012SH	S		7~13.2	2700	61.4	2.7	200	2.40	25000	3	36.5
YW09225012SS	S		7~13.2	3000	63.1	3.3	260	3.12	20000	2	39.0
YW09225012BL	2B		7~13.2	1900	40.2	1.7	100	1.20	80000	5	25.0
YW09225012BM	2B		7~13.2	2400	50.8	2.4	160	1.92	80000	4	33.0
YW09225012BH	2B		7~13.2	2800	63.7	3.0	230	2.76	75000	3	37.5
YW09225012BS	2B		7~13.2	3100	66.3	3.7	260	3.12	65000	2	40.0
YW09225012BSS	2B		7~13.2	3500	75.0	4.8	360	4.32	65000	1	42.5
YW09225024BL	2B	24	12~26.4	1900	40.2	1.7	60	1.44	80000	5	25.0
YW09225024BM	2B		12~26.4	2400	50.8	2.4	80	1.92	80000	4	33.0
YW09225024BH	2B		12~26.4	2800	63.7	3.0	130	3.12	75000	3	37.5
YW09225024BS	2B		12~26.4	3600	81.9	3.9	190	4.56	65000	1	47.5
YW09225048BL	2B	48	24~56.0	1900	40.2	1.7	30	1.44	80000	5	25.0
YW09225048BM	2B		24~56.0	2400	50.8	2.4	55	2.64	80000	4	33.0
YW09225048BH	2B		24~56.0	2800	63.7	3.0	70	3.36	75000	3	37.5

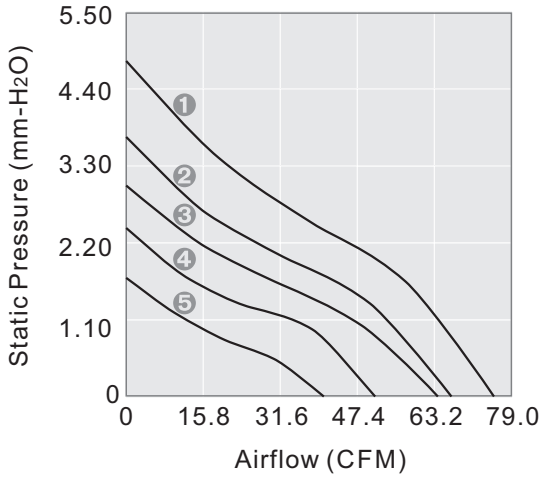
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

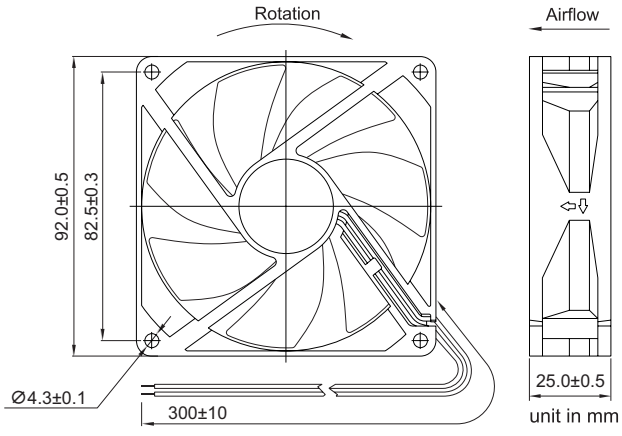
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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-H2O	mA	W	Hour		dB(A)
XYW09225012BL-S	2B	12	7~13.2	3800	76.2	9.2	350	4.20	80000	4	44.0
XYW09225012BM-S	2B		7~13.2	4300	87.8	11.6	450	5.40	80000	3	47.0
XYW09225012BH-S	2B		7~13.2	4800	100.3	15.0	650	7.80	75000	2	49.0
XYW09225012BS-S	2B		7~13.2	5300	109.3	16.4	900	10.8	65000	1	51.0
XYW09225024BL-S	2B	24	12~26.4	3800	76.2	9.2	190	4.56	80000	4	44.0
XYW09225024BM-S	2B		12~26.4	4300	87.8	11.6	260	6.24	80000	3	47.0
XYW09225024BH-S	2B		12~26.4	4800	100.3	15.0	350	8.40	75000	2	49.0
XYW09225024BS-S	2B		12~26.4	5300	109.3	16.4	450	10.8	65000	1	51.0
XYW09225048BL-S	2B	48	24~56.0	3800	76.2	9.2	110	5.28	80000	4	44.0
XYW09225048BM-S	2B		24~56.0	4300	87.8	11.6	130	6.24	80000	3	47.0
XYW09225048BH-S	2B		24~56.0	4800	100.3	15.0	170	8.16	75000	2	49.0
XYW09225048BS-S	2B		24~56.0	5300	109.3	16.4	220	10.6	65000	1	51.0

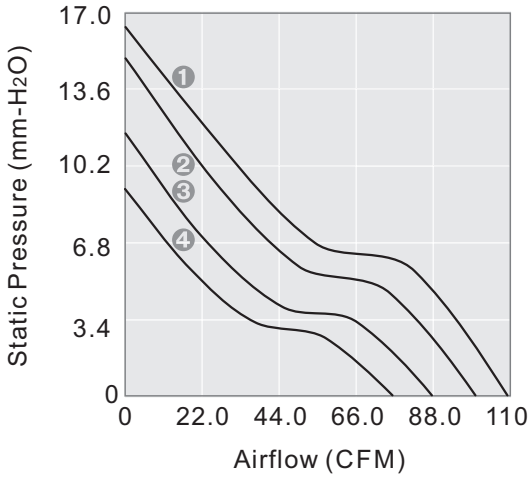
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

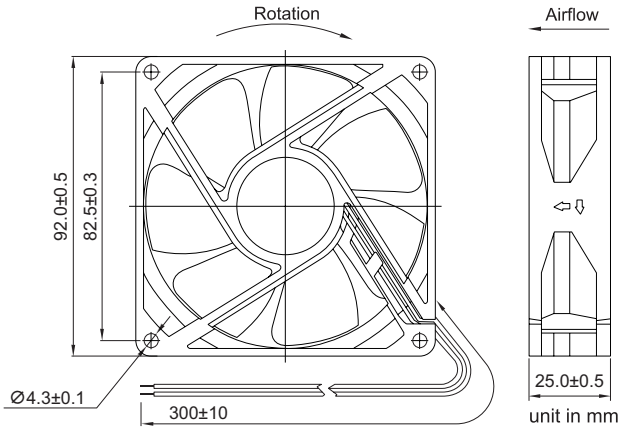
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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-H2O	mA	W	Hour		dB(A)
QYW09225012BL	2B	12	7~13.2	2000	25.9	2.1	35	0.42	80000	6	16.7
QYW09225012BM	2B		7~13.2	3000	39.6	4.6	85	1.02	80000	5	28.2
QYW09225012BH	2B		7~13.2	4000	50.3	6.9	145	1.74	75000	4	35.0
QYW09225012BS	2B		7~13.2	5000	64.8	10.3	300	3.60	65000	3	41.3
QYW09225012BU	2B		7~13.2	6000	78.3	15.7	490	5.88	65000	2	46.5
QYW09225012BV	2B		7~13.2	7000	92.5	20.7	750	9.00	60000	1	50.3
QYW09225024BL	2B	24	12~26.4	2000	25.9	2.1	45	1.08	80000	6	16.7
QYW09225024BM	2B		12~26.4	3000	39.6	4.6	70	1.68	80000	5	28.2
QYW09225024BH	2B		12~26.4	4000	50.3	6.9	100	2.40	75000	4	35.0
QYW09225024BS	2B		12~26.4	5000	64.8	10.3	160	3.84	65000	3	41.3
QYW09225024BU	2B		12~26.4	6000	78.3	15.7	230	5.52	65000	2	46.5
QYW09225024BV	2B		12~26.4	7000	92.5	20.7	340	8.16	60000	1	50.3
QYW09225048BL	2B	48	24~56.0	2000	25.9	2.1	35	1.68	80000	6	16.7
QYW09225048BM	2B		24~56.0	3000	39.6	4.6	45	2.16	80000	5	28.2
QYW09225048BH	2B		24~56.0	4000	50.3	6.9	70	3.36	75000	4	35.0
QYW09225048BS	2B		24~56.0	5000	64.8	10.3	90	4.32	65000	3	41.3
QYW09225048BU	2B		24~56.0	6000	78.3	15.7	130	6.24	65000	2	46.5
QYW09225048BV	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**

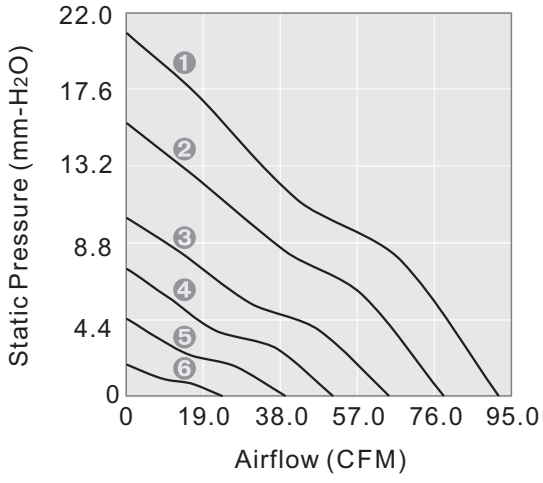
Bearing System Available

2B L S

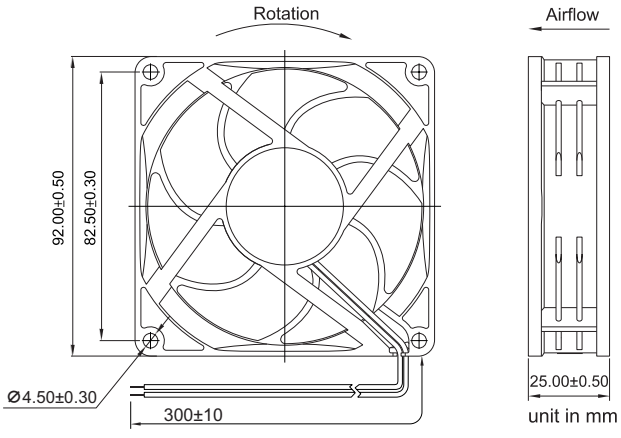
Function Available

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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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-H2O	mA	W	Hour		dB(A)
EYW09238012BL	2B	12	7~14.0	4000	56.6	13.2	270	3.24	80000	5	39.5
EYW09232012BM	2B		7~14.0	6000	84.6	29.1	600	7.20	80000	4	51.5
EYW09238012BH	2B		7~14.0	8000	113.6	48.9	1100	13.20	75000	3	57.5
EYW09238012BS	2B		7~14.0	10500	150.9	66.9	2400	28.80	65000	2	65.0
EYW09238012BU	2B		7~14.0	12500	184.5	79.0	4400	52.80	65000	1	67.5
EYW09238024BL	2B	24	10~30.0	4000	56.6	13.2	180	4.32	80000	5	39.5
EYW09238024BM	2B		10~30.0	6000	84.6	29.1	320	7.68	80000	4	51.5
EYW09238024BH	2B		10~30.0	8000	113.6	48.9	540	12.96	75000	3	57.5
EYW09238024BS	2B		10~30.0	10500	150.9	66.9	1050	25.20	65000	2	65.0
EYW09238024BU	2B		10~30.0	13500	192.9	103.7	2200	52.80	65000	1	68.5
EYW09238048BL	2B	48	24~75.0	4000	56.6	13.2	80	3.84	80000	5	39.5
EYW09238048BM	2B		24~75.0	6000	84.6	29.1	180	8.64	80000	4	51.5
EYW09238048BH	2B		24~75.0	8000	113.6	48.9	280	13.44	75000	3	57.5
EYW09238048BS	2B		24~75.0	10500	150.9	66.9	540	25.92	65000	2	65.0
EYW09238048BU	2B		24~75.0	13500	192.9	103.7	1100	52.80	65000	1	68.5

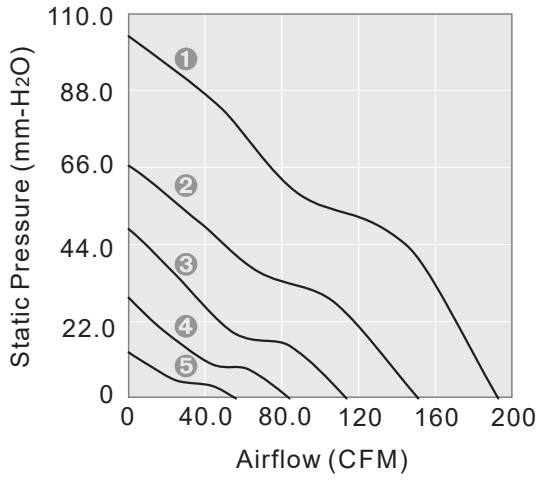
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

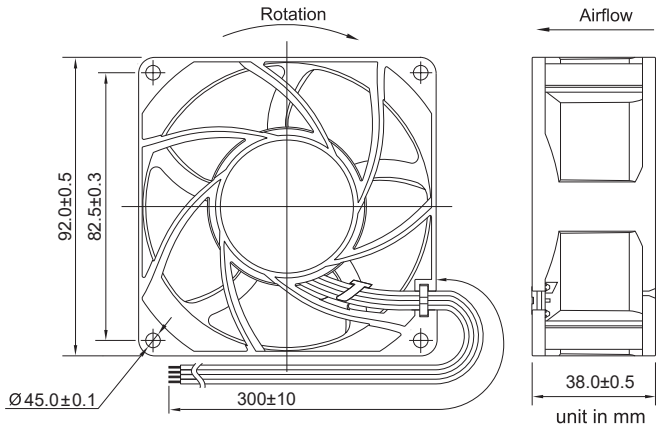
Bearing System Available
2B L S

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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
KM12025012BL	2B	12	7~13.2	2000	61.2	2.3	180	2.16	80000	1	31.5
KM12025012BL(1)	2B		7~13.2	1200	38.4	1.4	70	0.84	80000	2	17.5
KM12025012LL(1)	L		7~13.2	1200	38.4	1.4	65	0.78	50000	2	17.5
KM120250l2LL(0)	L		7~13.2	800	25.6	1.0	40	0.48	50000	3	16.5
KM12025012SL	S		7~13.2	2000	61.2	2.3	180	2.16	30000	1	31.5
KM12025012SL(1)	S		7~13.2	1200	38.4	1.4	70	0.84	30000	2	17.5
KM12025012SL(0)	S		7~13.2	800	25.6	1.0	40	0.48	30000	3	16.5

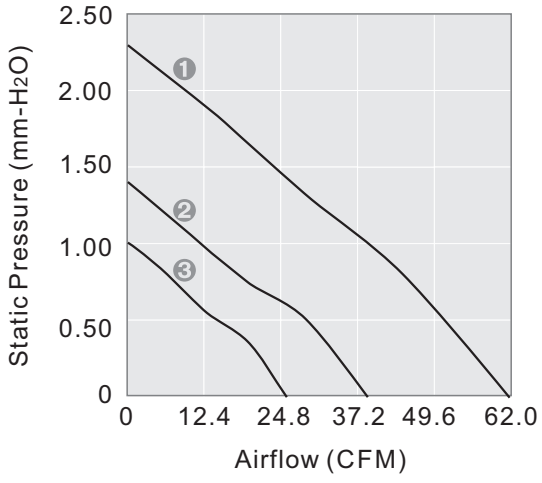
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

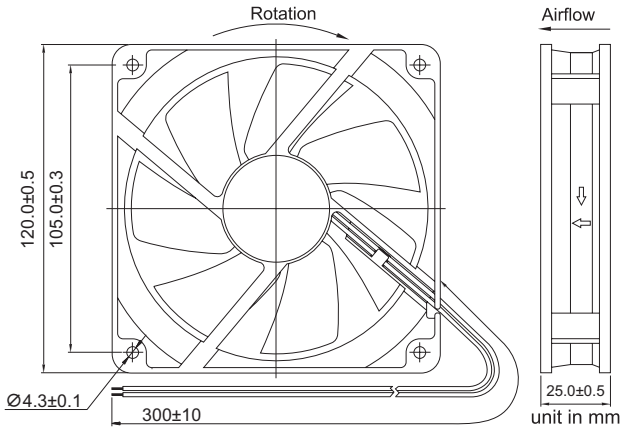
Bearing System Available
2B L S

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-H2O	mA	W	Hour		dB(A)
YW12025012BL	2B	12	7~13.2	1800	73.0	2.6	180	2.16	80000	8	34.0
YW12025012BM	2B		7~13.2	2200	87.8	3.9	290	3.48	80000	7	40.5
YW12025012BH	2B		7~13.2	2600	106.1	5.8	460	5.52	75000	6	44.0
YW12025012BS	2B		7~13.2	3000	123.1	7.6	570	6.84	65000	5	49.0
YW12025012BSS	2B		7~13.2	3500	144.6	8.4	650	7.80	65000	4	51.5
YW12025012BD	2B		7~13.2	4100	169.5	12.0	950	11.40	65000	3	55.0
YW12025012BJ	2B		7~13.2	4600	190.2	16.2	1300	15.60	65000	2	57.5
YW12025012BV	2B		7~13.2	5200	208.4	18.0	1900	22.80	60000	1	59.5
YW12025024BL	2B	24	12~26.4	1800	73.0	2.6	100	2.40	80000	8	34.0
YW12025024BM	2B		12~26.4	2200	87.8	3.9	160	3.84	80000	7	40.5
YW12025024BH	2B		12~26.4	2600	106.1	5.8	280	6.72	75000	6	44.0
YW12025024BSS	2B		12~26.4	3500	144.6	8.4	380	9.12	65000	4	51.5
YW12025024BJ	2B		12~26.4	4600	190.2	16.2	660	15.84	65000	2	57.5
YW12025024BV	2B		12~26.4	5200	208.4	18.0	1000	24.00	60000	1	59.5
YW12025048BL	2B	48	24~56.0	1800	73.0	2.6	70	3.36	80000	8	34.0
YW12025048BM	2B		24~56.0	2200	87.8	3.9	75	3.60	80000	7	40.5
YW12025048BH	2B		24~56.0	2600	106.1	5.8	130	6.24	75000	6	44.0
YW12025048BSS	2B		24~56.0	3500	144.6	8.4	200	9.60	65000	4	51.5
YW12025048BJ	2B		24~56.0	4600	190.2	16.2	330	15.84	65000	2	57.5
YW12025048BV	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

05 **12** **24** **48**

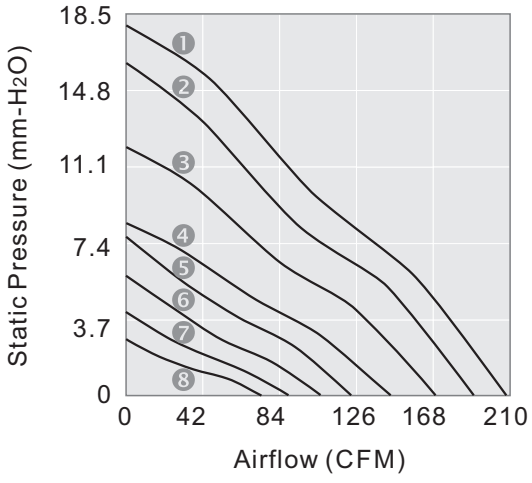
Bearing System Available

2B L **S**

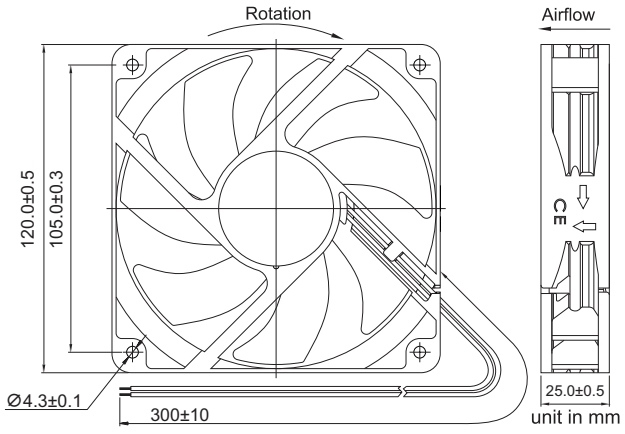
Function Available

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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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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
QYW12025012BL	2B	12	7~13.2	2000	56.5	3.1	130	1.56	80000	4	29.3
QYW12025012BM	2B		7~13.2	2800	81.8	6.0	220	2.64	80000	3	39.1
QYW12025012BH	2B		7~13.2	4400	127.9	14.1	550	6.60	75000	2	51.4
QYW12025012BS	2B		7~13.2	6000	181.0	24.3	1300	15.60	65000	1	60.5
QYW12025024BL	2B	24	12~26.4	2000	56.5	3.1	85	2.04	80000	4	29.3
QYW12025024BM	2B		12~26.4	2800	81.8	6.0	130	3.12	80000	3	39.1
QYW12025024BH	2B		12~26.4	4400	127.9	14.1	320	7.68	75000	2	51.4
QYW12025024BS	2B		12~26.4	6000	181.0	24.3	700	16.80	65000	1	60.5
QYW12025048BL	2B	48	24~56.0	2000	56.5	3.1	60	2.88	80000	4	29.3
QYW12025048BM	2B		24~56.0	2800	81.8	6.0	85	4.08	80000	3	39.1
QYW12025048BH	2B		24~56.0	4400	127.9	14.1	180	8.64	75000	2	51.4
QYW12025048BS	2B		24~56.0	6000	181.0	24.3	400	19.20	65000	1	60.5

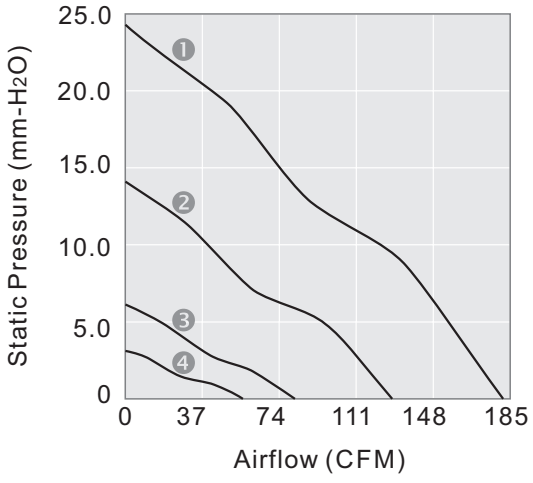
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

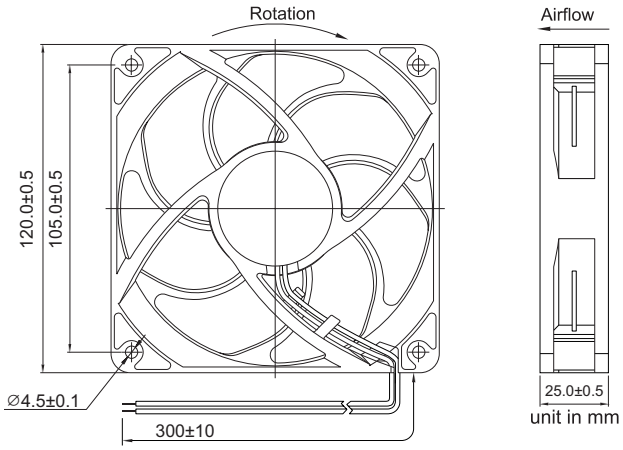
Bearing System Available
2B L S

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**

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-H2O	mA	W	Hour		dB(A)
YW12032012BL	2B	12	7~13.2	2100	87.7	4.2	330	3.96	80000	9	39.0
YW12032012BM	2B		7~13.2	2500	99.3	6.1	450	5.40	80000	8	42.5
YW12032012BH	2B		7~13.2	2900	115.0	8.0	580	6.96	75000	7	47.5
YW12032012BS	2B		7~13.2	3300	137.3	9.4	840	10.08	65000	6	49.0
YW12032012BSS	2B		7~13.2	3500	157.7	11.8	700	8.40	65000	5	55.0
YW12032012BD	2B		7~13.2	4100	184.8	13.8	1100	13.20	65000	4	58.5
YW12032012BJ	2B		7~13.2	4600	207.3	18.2	1600	19.20	65000	3	61.0
YW12032012BV	2B		7~13.2	4900	220.8	21.2	2200	26.40	60000	2	62.0
YW12032024BL	2B	24	12~26.4	2100	87.7	4.2	150	3.60	80000	9	39.0
YW12032024BM	2B		12~26.4	2500	99.3	6.1	200	4.80	80000	8	42.5
YW12032024BH	2B		12~26.4	2900	115.0	8.0	290	6.96	75000	7	47.5
YW12032024BSS	2B		12~26.4	3500	157.7	11.8	360	8.64	65000	5	55.0
YW12032024BJ	2B		12~26.4	4600	207.3	18.2	750	18.00	65000	3	61.0
YW12032024BV	2B		12~26.4	5200	234.3	24.4	1000	24.00	60000	1	63.5
YW12032048BL	2B	48	24~56.0	2100	83.3	4.3	90	4.32	80000	9	39.5
YW12032048BM	2B		24~56.0	2500	99.3	6.1	130	6.24	80000	8	42.5
YW12032048BH	2B		24~56.0	2900	115.0	8.0	190	9.12	75000	7	47.0
YW12032048BSS	2B		24~56.0	3500	157.7	11.8	210	10.08	65000	5	55.0
YW12032048BJ	2B		24~56.0	4600	207.3	18.2	450	21.60	65000	3	61.0
YW12032048BV	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

05 12 24 48

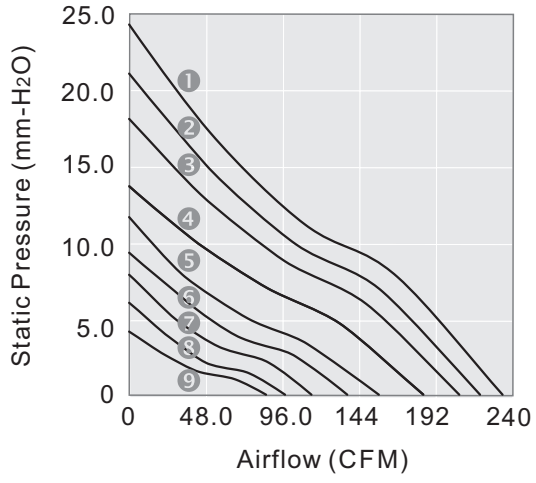
Bearing System Available

2B L S

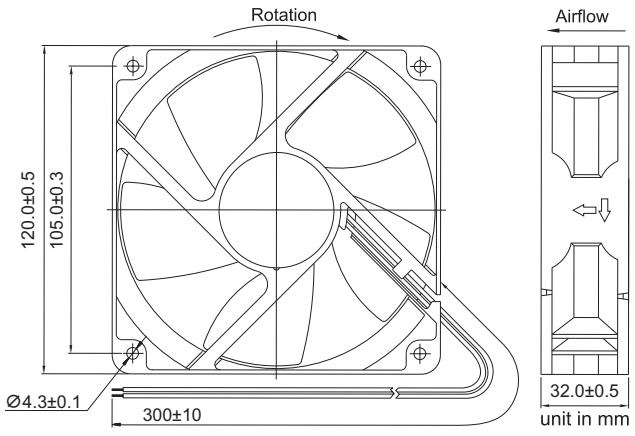
Function Available

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: 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-H2O	mA	W	Hour		dB(A)
YW12038012BL	2B	12	7~13.2	2000	89.5	3.9	320	3.84	80000	7	36.0
YW12038012BM	2B		7~13.2	2400	107.0	5.8	400	4.80	80000	6	41.0
YW12038012BH	2B		7~13.2	2800	125.5	7.6	660	7.92	75000	5	45.0
YW12038012BS	2B		7~13.2	3000	135.0	8.6	830	9.96	65000	4	47.0
YW12038012BSS	2B		7~13.2	3500	161.1	10.4	750	9.00	65000	3	55.5
YW12038012BD	2B		7~13.2	4100	189.2	15.1	1250	15.00	65000	2	59.0
YW12038012BJ	2B		7~13.2	4600	212.6	19.8	1750	21.00	65000	1	61.5
YW12038024BL	2B	24	12~26.4	2000	89.5	3.9	150	3.60	80000	7	36.0
YW12038024BM	2B		12~26.4	2400	107.0	5.8	250	6.00	80000	6	41.0
YW12038024BH	2B		12~26.4	2800	125.5	7.6	310	7.44	75000	5	45.0
YW12038024BS	2B		12~26.4	3000	135.0	8.6	410	9.84	65000	4	47.0
YW12038024BSS	2B		12~26.4	3500	161.1	10.4	410	9.84	75000	3	55.5
YW12038024BD	2B		12~26.4	4100	189.2	15.1	620	14.88	65000	2	59.0
YW12038024BJ	2B		12~26.4	4600	212.6	19.8	860	20.64	65000	1	61.5
YW12038048BL	2B	48	24~56.0	2000	89.5	3.9	120	5.76	80000	7	36.0
YW12038048BM	2B		24~56.0	2400	107.0	5.8	140	6.72	80000	6	41.0
YW12038048BH	2B		24~56.0	2800	125.5	7.6	180	8.64	75000	5	45.0
YW12038048BS	2B		24~56.0	3000	135.0	8.6	210	10.08	65000	4	47.0
YW12038048BSS	2B		24~56.0	3500	161.1	10.4	240	11.52	65000	3	55.5
YW12038048BD	2B		24~56.0	4100	189.2	15.1	340	16.32	65000	2	59.0
YW12038048BJ	2B		24~56.0	4600	212.6	19.8	470	22.56	60000	1	61.5

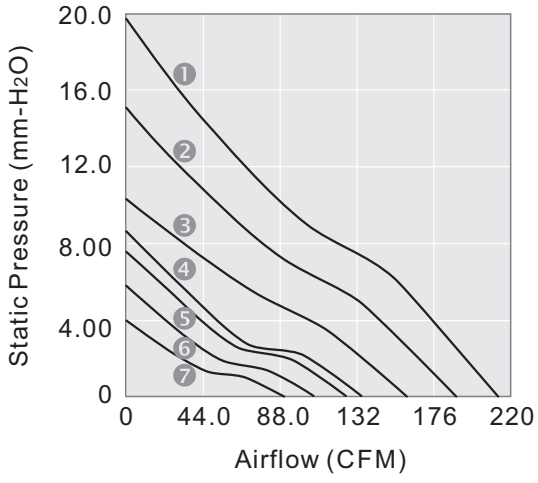
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

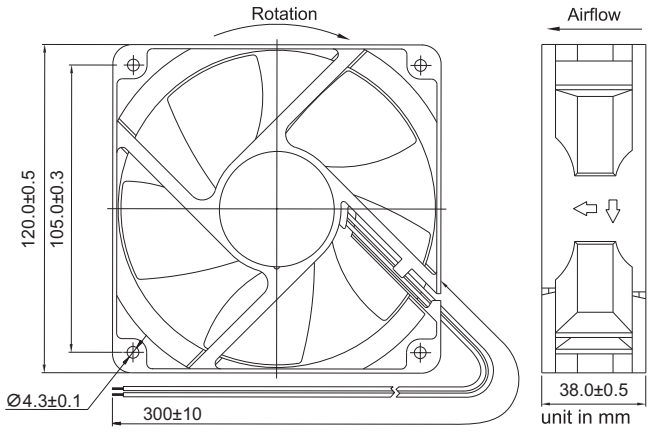
Bearing System Available
2B L S

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: 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-H2O	mA	W	Hour		dB(A)
QYW12038012BL	2B	12	7~13.2	2000	77.9	3.6	150	1.80	80000	4	31.4
QYW12038012BM	2B		7~13.2	3000	115.3	7.4	330	3.96	80000	3	43.3
QYW12038012BH	2B		7~13.2	4000	158.1	13.3	750	9.00	75000	2	52.0
QYW12038012BS	2B		7~13.2	5000	200.7	20.6	1600	19.20	65000	1	57.4
QYW12038024BL	2B	24	12~26.4	2000	77.9	3.6	100	2.40	80000	4	31.4
QYW12038024BM	2B		12~26.4	3000	115.3	7.4	200	4.80	80000	3	43.3
QYW12038024BH	2B		12~26.4	4000	158.1	13.3	360	8.64	75000	2	52.0
QYW12038024BS	2B		12~26.4	5000	200.7	20.6	750	18.00	65000	1	57.4
QYW12038048BL	2B	48	24~56.0	2000	77.9	3.6	70	3.36	80000	4	31.4
QYW12038048BM	2B		24~56.0	3000	115.3	7.4	120	5.76	80000	3	43.3
QYW12038048BH	2B		24~56.0	4000	158.1	13.3	200	9.60	75000	2	52.0
QYW12038048BS	2B		24~56.0	5000	200.7	20.6	380	18.24	65000	1	57.4

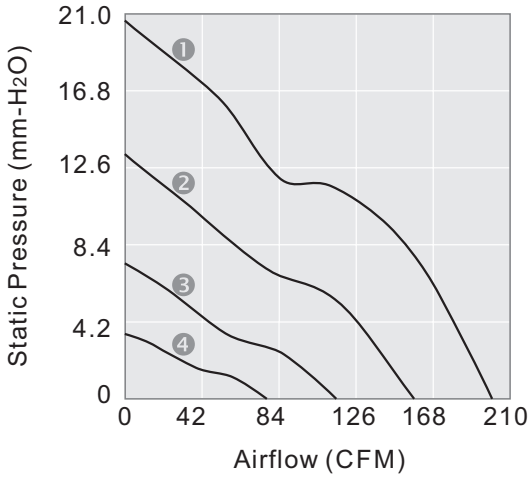
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

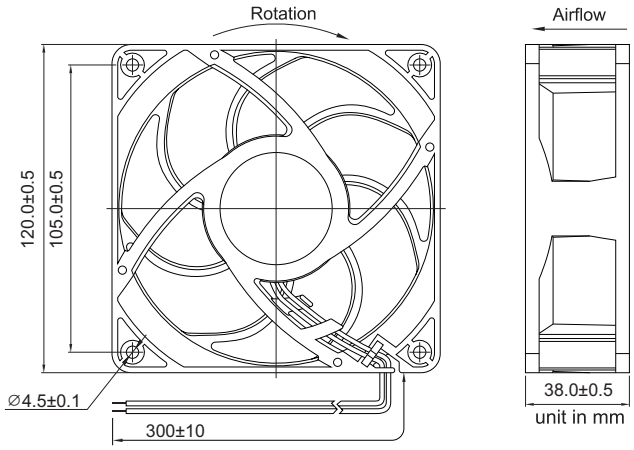
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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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 VDC	Operating Voltage Range VDC	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current mA	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
XYW12038012BL-R	2B	12	7~13.2	2800	88.0	8.4	270	3.24	80000	6	45.5
XYW12038012BM-R	2B		7~13.2	3200	100.9	10.5	380	4.56	80000	5	47.0
XYW12038012BH-R	2B		7~13.2	3600	113.9	13.0	520	6.24	75000	4	51.0
XYW12038012BS-R	2B		7~13.2	4000	127.0	16.0	730	8.76	65000	3	55.0
XYW12038012BSS-R	2B		7~13.2	4500	142.0	20.0	980	11.76	65000	2	58.5
XYW12038024BL-R	2B	24	12~26.4	2800	88.0	8.4	145	3.48	80000	6	45.5
XYW12038024BM-R	2B		12~26.4	3200	100.9	10.5	195	4.68	80000	5	47.0
XYW12038024BH-R	2B		12~26.4	3600	113.9	13.0	270	6.48	75000	4	51.0
XYW12038024BS-R	2B		12~26.4	4000	127.0	16.0	370	8.88	65000	3	55.0
XYW12038024BSS-R	2B		12~26.4	4500	142.0	20.0	520	12.48	65000	2	58.5
XYW12038048BL-R	2B	48	24~56.0	2800	88.0	8.4	100	4.80	80000	6	45.5
XYW12038048BM-R	2B		24~56.0	3200	100.9	10.5	130	6.24	80000	5	47.0
XYW12038048BH-R	2B		24~56.0	3600	113.9	13.0	170	8.16	75000	4	51.0
XYW12038048BS-R	2B		24~56.0	4000	127.0	16.0	200	9.60	65000	3	55.0
XYW12038048BSS-R	2B		24~56.0	4500	142.0	20.0	270	12.96	65000	2	58.5
XYW12038048BU-R	2B		24~56.0	5500	174.7	28.9	560	26.88	65000	1	65.0

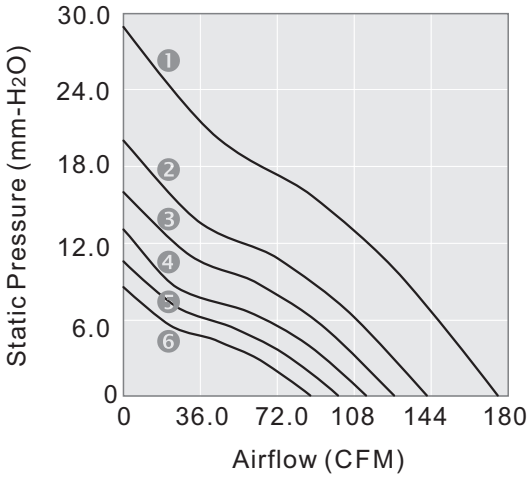
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

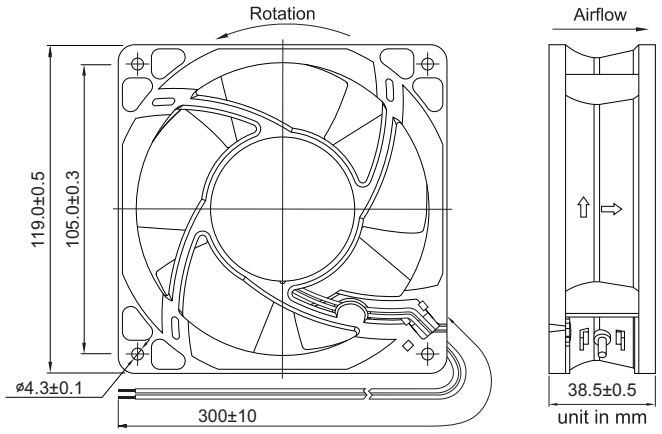
Bearing System Available
2B L S

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-H2O	mA	W	Hour		dB(A)
EYW12038012BL	2B	12	7~13.2	4000	155.8	19.3	1200	14.40	80000	4	54.0
EYW12038012BM	2B		7~13.2	5000	194.0	30.8	2200	26.40	75000	3	60.4
EYW12038012BH	2B		7~13.2	6000	236.4	48.1	3500	42.00	65000	2	64.9
EYW12038024BL	2B	24	12~30.0	4000	155.8	19.3	680	16.32	80000	4	54.0
EYW12038024BM	2B		12~30.0	5000	194.0	30.8	950	22.80	75000	3	60.4
EYW12038024BH	2B		12~30.0	6000	235.4	41.5	1700	40.80	65000	2	64.9
EYW12038024BS	2B		12~30.0	7000	275.9	60.4	2700	64.80	65000	1	69.2
EYW12038048BL	2B	48	35~60.0	4000	155.8	19.3	370	17.76	80000	4	54.0
EYW12038048BM	2B		35~60.0	5000	194.0	30.8	550	26.40	75000	3	60.4
EYW12038048BH	2B		35~60.0	6000	235.4	41.5	800	38.40	65000	2	64.9
EYW12038048BS	2B		35~60.0	7000	275.9	60.4	1300	62.40	65000	1	69.2

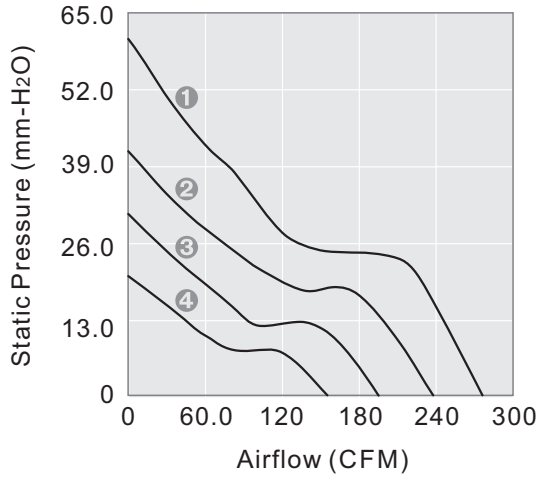
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** **48**

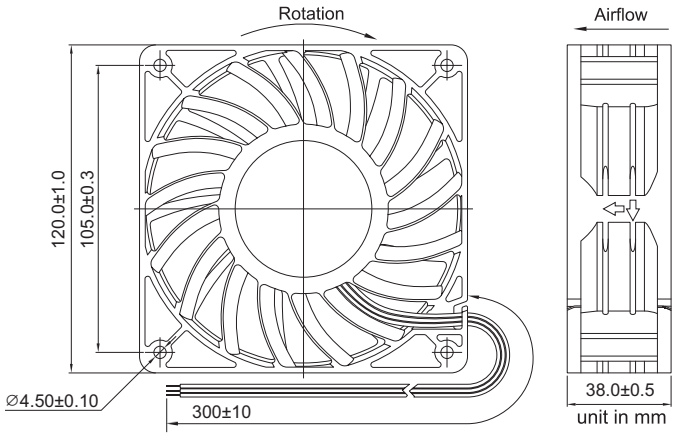
Bearing System Available
2B L S

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
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW14025012LL	L	12	7~13.2	1050	62.1	1.3	70	0.84	50000	3	21.7
NYW14025012LM	L		7~13.2	1450	87.1	2.5	170	2.04	50000	2	31.6
NYW14025012LH	L		7~13.2	1850	115.3	4.0	370	4.44	50000	1	40.6
NYW14025012BL	2B		7~13.2	1050	62.1	1.3	70	0.84	80000	3	21.7
NYW14025012BM	2B		7~13.2	1450	87.1	2.5	170	2.04	80000	2	31.6
NYW14025012BH	2B		7~13.2	1850	115.3	4.0	370	4.44	75000	1	40.6

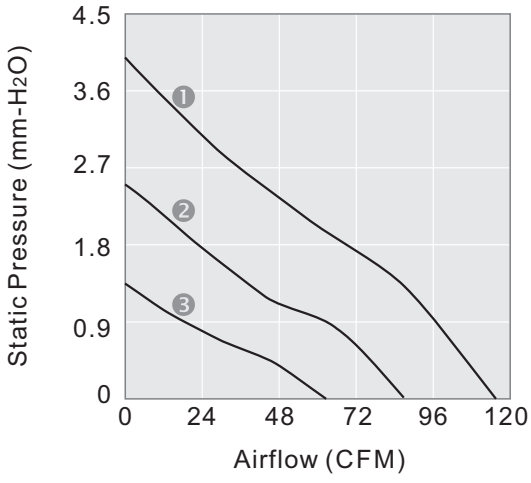
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

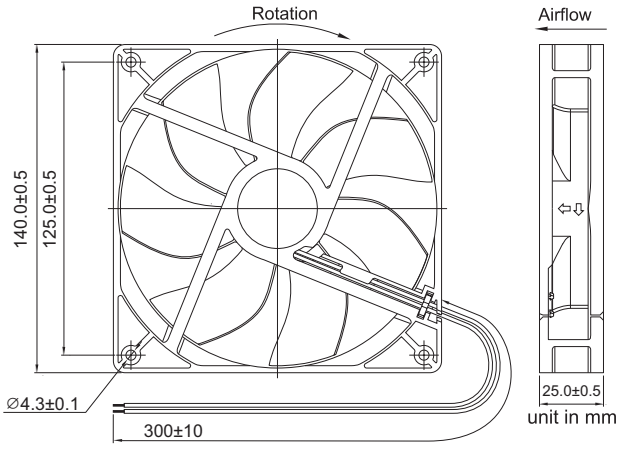
Bearing System Available
2B **L** S

Function Available
N A **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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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-H2O	mA	W	Hour		dB(A)
XYW17251012BL	2B	12	7~13.2	3000	247.5	16.7	1800	21.60	80000	6	57.2
XYW17251012BM	2B		7~13.2	3500	294.4	23.7	2800	33.60	80000	5	62.1
XYW17251012BL	2B	24	12~26.4	3000	247.5	16.7	850	20.40	80000	6	57.2
XYW17251024BM	2B		12~26.4	3500	294.4	23.7	1250	30.00	80000	5	62.1
XYW17251024BH	2B		12~26.4	4000	335.4	29.8	1850	40.40	75000	4	63.0
XYW17251024BS	2B		12~26.4	4500	379.7	37.1	2700	64.80	65000	3	67.3
XYW17251048BL	2B	48	24~56.0	3000	247.5	16.7	440	21.12	80000	6	57.2
XYW17251048BM	2B		24~56.0	3500	294.4	23.7	650	31.20	80000	5	62.1
XYW17251048BH	2B		24~56.0	4000	335.4	29.8	950	45.60	75000	4	63.0
XYW17251048BS	2B		24~56.0	4500	379.7	37.1	1250	60.00	65000	3	67.3
XYW17251048BSE	2B		24~56.0	5000	419.9	46.3	1650	79.20	65000	2	71.1
XYW17251048BSS	2B		24~56.0	5500	464.0	52.0	2400	115.2	65000	1	73.1

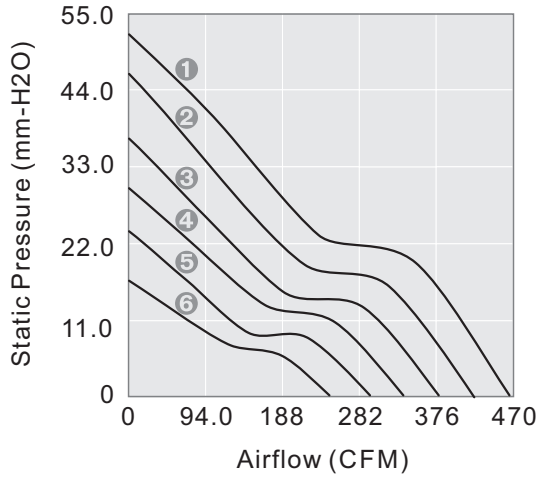
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

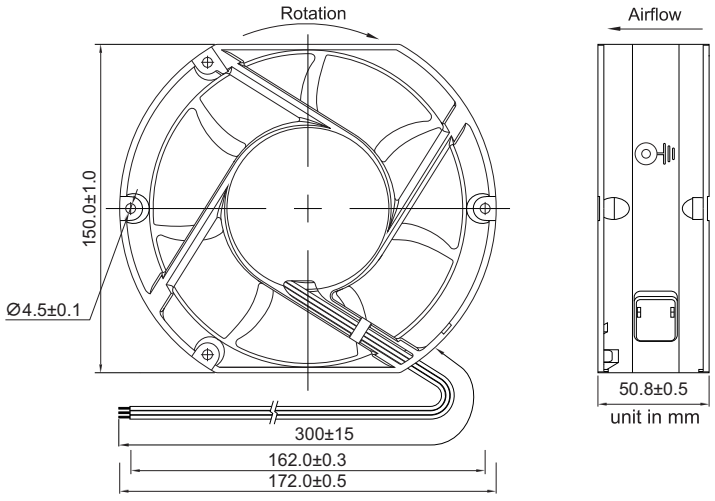
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

50x50x15mm

- **Airflow: 3.9~6.3 CFM**
- **Static Pressure: 12.0~26.2 mm-H_2O**
- **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_2O	mA	W	Hour		dB(A)
BW05115005BL	2B	05	4~5.5	4500	3.9	12.0	170	0.85	80000	4	37.5
BW05115005BM	2B		4~5.5	5500	4.7	16.2	350	1.75	80000	3	42.0
BW05115012BL	2B	12	7~13.2	4500	3.9	12.0	95	1.14	80000	4	37.5
BW05115012BM	2B		7~13.2	5500	4.7	16.2	160	1.92	80000	3	42.0
BW05115012BH	2B		7~13.2	6500	5.5	20.9	230	2.76	75000	2	45.5
BW05115012BS	2B		7~13.2	7500	6.3	26.2	290	3.48	65000	1	48.5
BW05115012LL	L		7~13.2	4500	3.9	12.0	100	1.20	50000	4	37.5
BW05115012LM	L		7~13.2	5500	4.7	16.2	150	1.80	50000	3	42.0
BW05115012LH	L		7~13.2	6500	5.5	20.9	220	2.64	50000	2	45.5
BW05115012LS	L		7~13.2	7500	6.3	26.2	290	3.48	50000	1	48.5
BW05115024BL	2B	24	12~26.4	4500	3.9	12.0	60	1.44	80000	4	37.5
BW05115024BM	2B		12~26.4	5500	4.7	16.2	85	2.04	80000	3	42.0
BW05115024BH	2B		12~26.4	6500	5.5	20.9	120	2.88	75000	2	45.5
BW05115024BS	2B		12~26.4	7500	6.3	26.2	180	4.32	65000	1	48.5

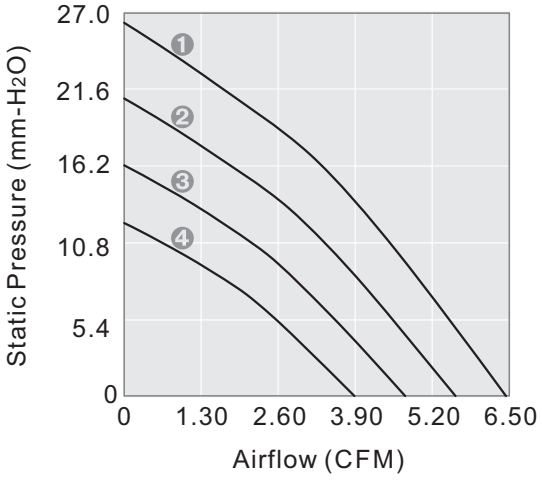
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

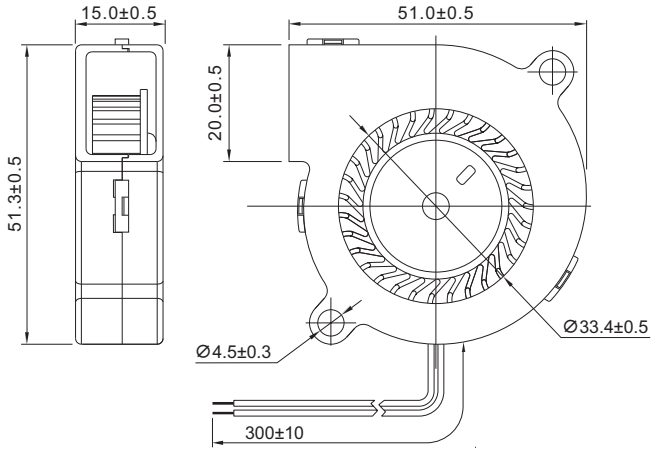
Bearing System Available
2B L S

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**

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-H2O	mA	W	Hour		dB(A)
BW06018012BL	2B	12	7~13.2	4200	6.7	17.6	140	1.68	80000	3	38.0
BW06018012BM	2B		7~13.2	4800	7.7	21.2	180	2.16	80000	2	43.5
BW06018012BH	2B		7~13.2	5400	8.2	22.0	280	3.36	75000	1	49.0

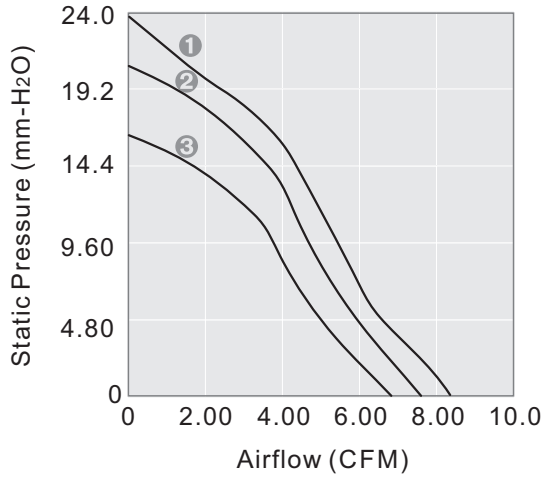
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

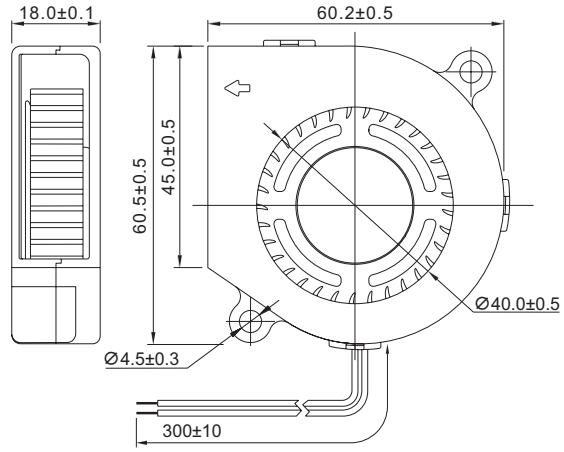
Bearing System Available
2B L S

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: 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-H2O	mA	W	Hour		dB(A)
BW06025012BL	2B	12	7~13.2	3000	6.5	6.1	110	1.32	80000	3	31.5
BW06025012BM	2B		7~13.2	3700	8.1	8.4	180	2.16	80000	2	35.8
BW06025012BH	2B		7~13.2	4500	10.6	15.3	230	2.76	75000	1	41.0
BW06025024BL	2B	24	12~26.4	3000	6.5	6.1	45	1.08	80000	3	31.5
BW06025024BM	2B		12~26.4	3700	8.1	8.4	70	1.68	80000	2	35.8
BW06025024BH	2B		12~26.4	4500	10.6	15.3	110	2.64	75000	1	41.5

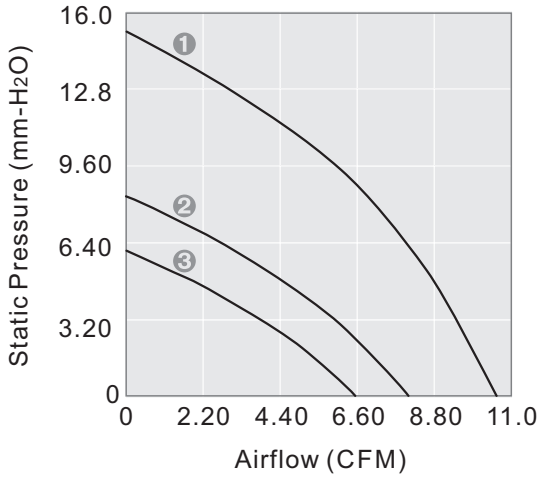
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

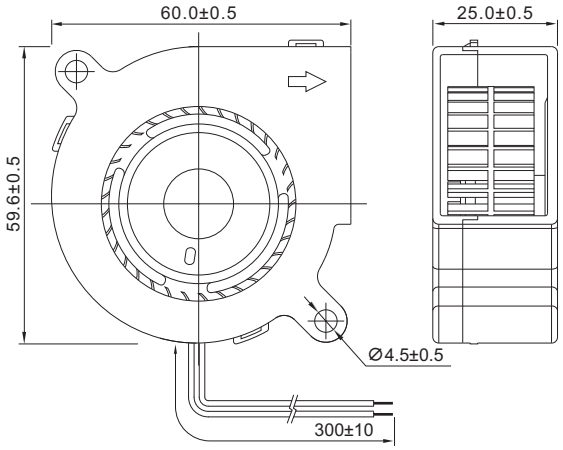
Bearing System Available
2B L S

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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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-H2O	mA	W	Hour		dB(A)
BW08030012BL	2B	12	7~13.2	2400	9.7	5.5	110	1.32	80000	5	37.0
BW08030012BM	2B		7~13.2	3000	12.2	10.3	190	2.28	80000	4	42.0
BW08030012BH	2B		7~13.2	3400	14.0	13.7	270	3.24	75000	3	44.5
BW08030012BS	2B		7~13.2	4000	16.5	20.3	360	4.32	65000	2	48.0
BW08030012BSS	2B		7~13.2	4200	17.3	21.8	430	5.16	65000	1	49.5
BW08030012SL	S		7~13.2	2300	9.3	5.1	180	2.16	30000	5	36.0
BW08030012SM	S		7~13.2	2900	11.8	9.8	210	2.52	30000	4	41.0
BW08030012SH	S		7~13.2	3300	13.6	13.1	300	3.60	25000	3	43.5
BW08030024BL	2B	24	12~26.4	2400	9.7	5.5	60	1.44	80000	5	37.0
BW08030024BM	2B		12~26.4	3000	12.2	10.3	110	2.64	80000	4	42.0
BW08030024BH	2B		12~26.4	3400	14.0	13.7	150	3.60	75000	3	44.5
BW08030024BS	2B		12~26.4	4000	16.5	20.3	200	4.80	65000	2	48.0
BW08030024SL	S		12~26.4	2400	9.7	5.5	110	2.64	30000	5	37.0
BW08030024SM	S		12~26.4	3000	12.2	10.3	150	3.60	30000	4	42.0
BW08030024SH	S		12~26.4	3400	14.0	13.7	190	4.56	25000	3	44.5
BW08030024SH	S		12~26.4	4000	16.5	20.3	200	4.80	20000	2	48.0

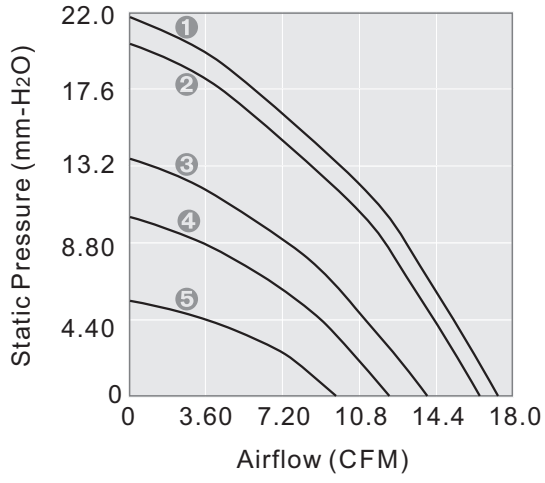
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

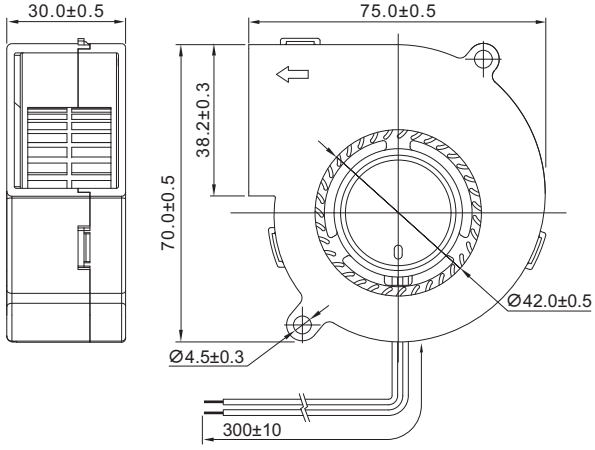
Bearing System Available
2B L **S**

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-H2O	mA	W	Hour		dB(A)
BW09733012BL	2B	12	7~13.2	2600	25.6	22.1	400	4.80	80000	6	40.0
BW09733012BM	2B		7~13.2	2900	28.5	24.7	480	5.76	80000	5	42.5
BW09733012BH	2B		7~13.2	3300	32.4	28.1	740	8.88	75000	4	48.5
BW09733012BS	2B		7~13.2	3700	34.2	29.4	850	10.20	65000	3	53.0
BW09733012BJ	2B		7~13.2	4500	42.6	56.0	1400	16.80	65000	2	58.0
BW09733024BL	2B	24	12~26.4	2600	25.6	22.1	210	5.04	80000	6	40.0
BW09733024BM	2B		12~26.4	2900	28.5	24.7	280	6.72	80000	5	42.5
BW09733024BH	2B		12~26.4	3300	32.4	28.1	420	10.08	75000	4	48.5
BW09733024BS	2B		12~26.4	3700	34.2	29.4	400	9.60	65000	3	53.0
BW09733024BJ	2B		12~26.4	4500	42.6	56.0	680	16.32	65000	2	58.0
BW09733024BV	2B		12~26.4	5300	48.9	81.5	1300	31.20	60000	1	62.0

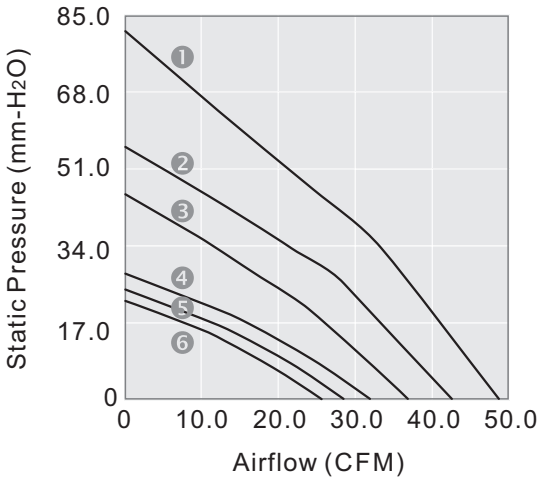
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

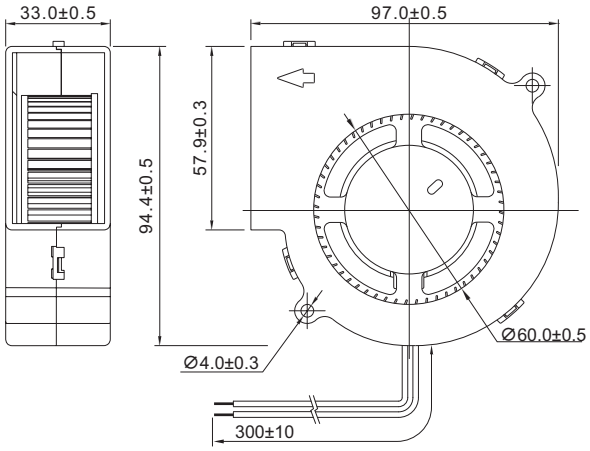
Bearing System Available
2B L **S**

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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97x97x33mm

- Airflow: 37.8~58.4CFM
- Static Pressure: 34.7~139.6mm-H_2O
- 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_2O	mA	W	Hour		dB(A)
BW09733012BL-N	2B	12	7~13.2	4500	37.8	34.7	900	10.80	80000	5	54.8
BW09733012BM-N	2B		7~13.2	4850	40.7	44.1	1200	14.40	80000	4	56.7
BW09733012BH-N	2B		7~13.2	5250	44.8	55.8	1600	19.20	75000	3	58.4
BW09733012BS-N	2B		7~13.2	5750	48.2	86.6	2700	32.40	65000	2	60.6
BW09733012BU-N	2B		7~13.2	6850	58.4	139.6	4200	50.40	65000	1	64.8
BW09733024BL-N	2B	24	12~26.4	4500	37.8	34.7	500	12.00	80000	5	54.8
BW09733024BM-N	2B		12~26.4	4850	40.7	44.1	600	14.40	80000	4	56.7
BW09733024BH-N	2B		12~26.4	5250	44.8	55.8	800	19.20	75000	3	58.4
BW09733024BS-N	2B		12~26.4	5750	48.2	86.6	1200	28.80	65000	2	60.6
BW09733024BU-N	2B		12~26.4	6850	58.4	139.6	2000	48.00	65000	1	64.8

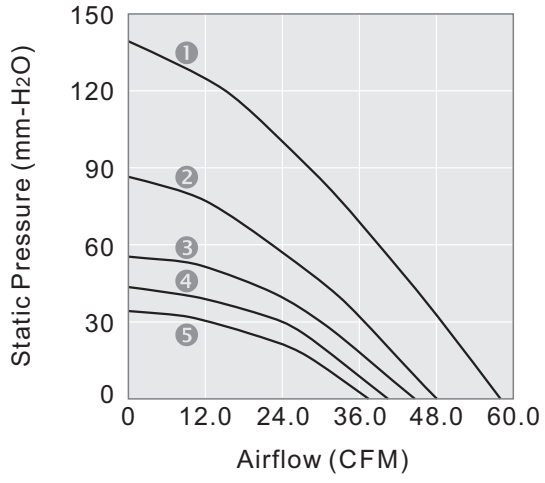
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

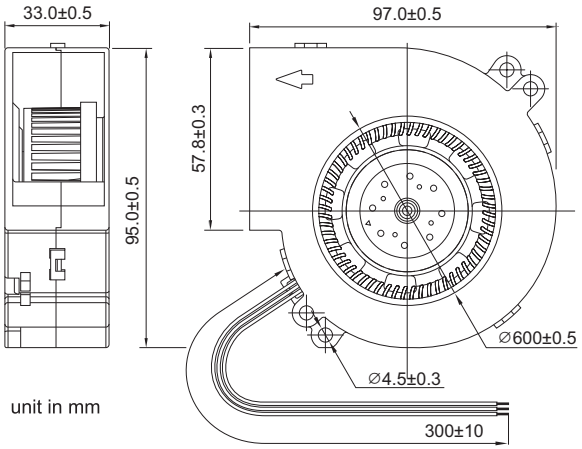
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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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-H2O	mA	W	Hour		dB(A)
BW12032012BL	2B	12	7~13.2	1700	23.0	8.0	150	1.80	80000	5	42.5
BW12032012BM	2B		7~13.2	2100	29.5	13.8	250	3.00	80000	4	49.5
BW12032012BH	2B		7~13.2	2600	37.2	24.7	700	8.40	75000	3	57.0
BW12032012BS	2B		7~13.2	2900	41.4	29.0	900	10.80	65000	2	59.0
BW12032012BU	2B		7~13.2	3500	47.5	41.7	1500	18.00	65000	1	62.0
BW12032024BL	2B	24	12~26.4	1700	23.0	8.0	120	2.88	80000	5	42.5
BW12032024BM	2B		12~26.4	2100	29.5	13.8	180	4.32	80000	4	49.5
BW12032024BH	2B		12~26.4	2600	37.2	24.7	260	6.24	75000	3	57.0
BW12032024BS	2B		12~26.4	2900	41.4	29.0	450	10.80	65000	2	59.0
BW12032024BJ	2B		12~26.4	3500	47.5	41.7	830	19.92	65000	1	62.0

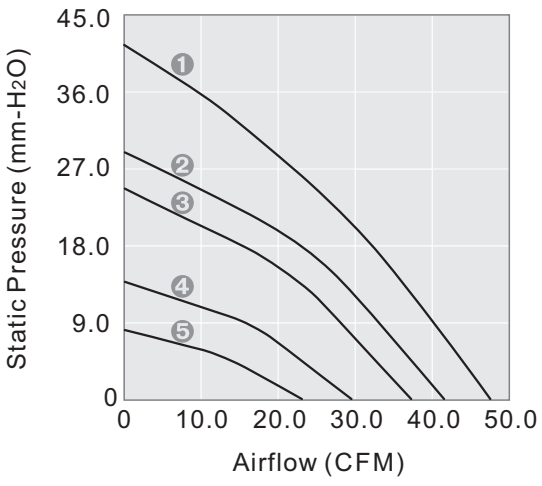
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** **24** 48

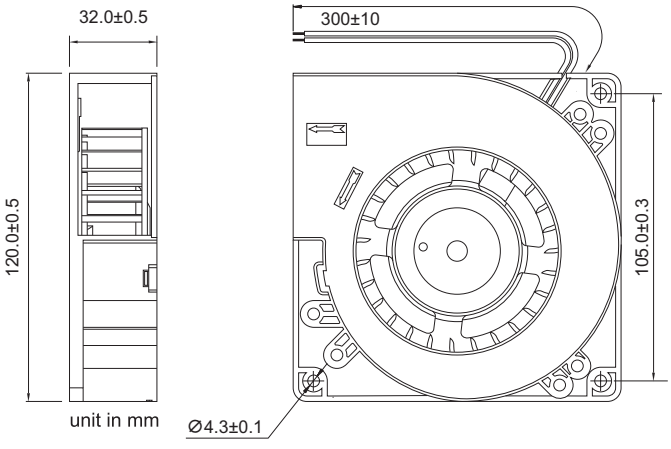
Bearing System Available
2B L S

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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72.6x78.2x22.3mm

- Airflow: 14.16CFM
- Static Pressure: 47.85mm-H_2O
- Blade / Housing: Plastic Material UL 94V-0
- Lead Wire: UL1569 #22 AWG
- Weight: 80.0 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_2O	mA	W	Hour		dB(A)
BW07820012BS	2B	13.6	9.0~16.0	6100	14.16	47.85	620	8.43	65000	1	51.2

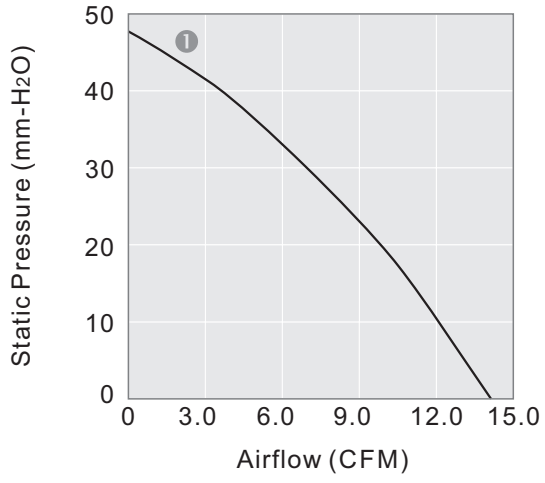
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

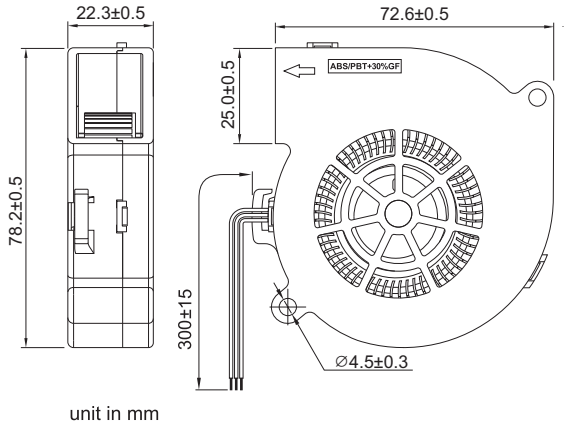
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



unit in mm

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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**

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-H2O	mA	W	Hour		dB(A)
BW09720012BS	2B	13.6	9.0~16.0	6100	13.69	45.97	620	8.43	65000	1	56.0

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

Voltage Available

05 **12** 24 48

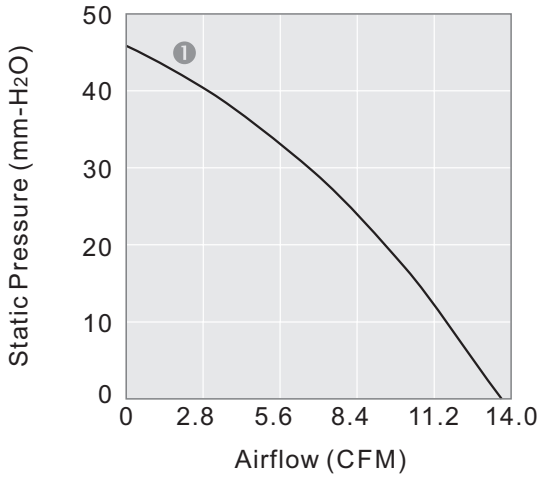
Bearing System Available

2B L S

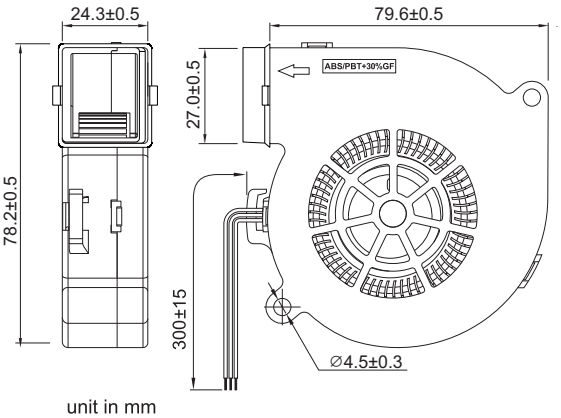
Function Available

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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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**

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-H2O	mA	W	Hour		dB(A)
BW10025012BS	2B	13.5	9.0~16.0	4200	21.4	36.8	550	7.43	65000	1	54.8

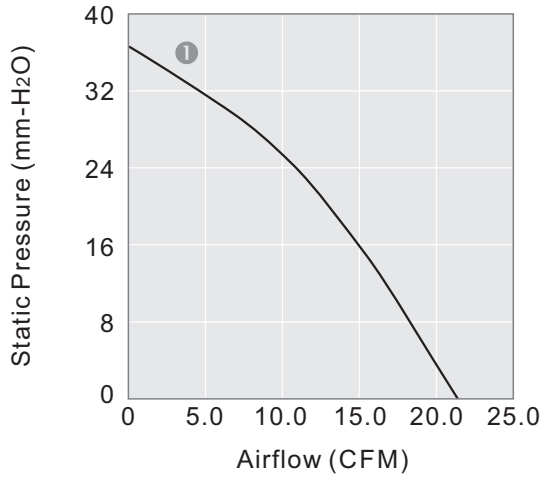
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

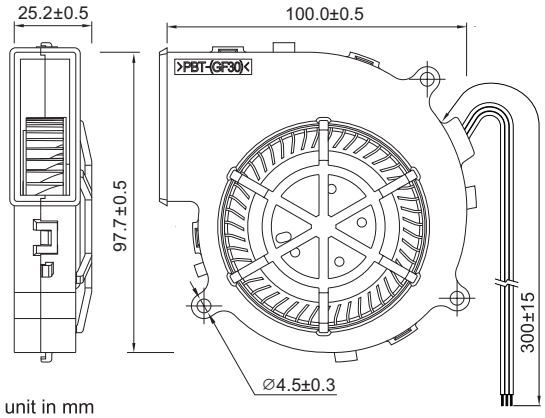
Bearing System Available
2B L S

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



unit in mm

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110x112x25mm

- **Airflow: 26.4CFM**
- **Static Pressure: 53.5mm-H_2O**
- **Blade / Housing: Plastic Material UL 94V-0**
- **Lead Wire: UL1569 #22 AWG**
- **Weight: 120.0 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_2O	mA	W	Hour		dB(A)
BW11025012BS	2B	13.5	9.0~16.0	4500	26.4	53.5	1000	13.50	65000	1	57.1

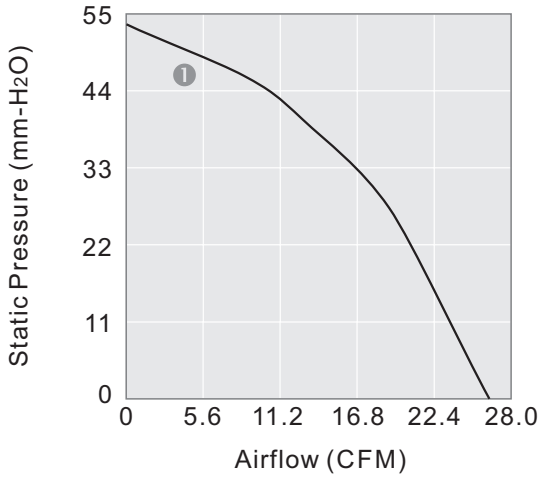
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 **12** 24 48

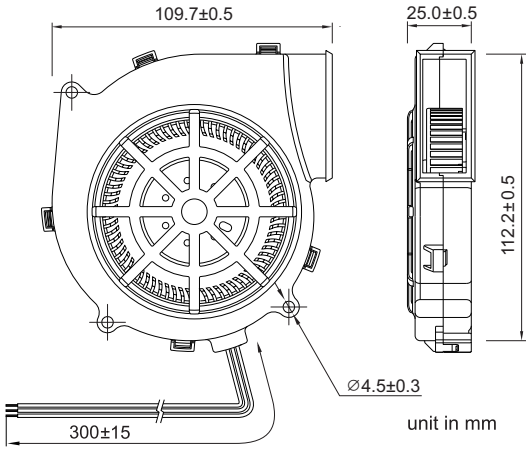
Bearing System Available
2B L S

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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80x80x25mm

- **Airflow: 38.6~55.1 CFM**
- **Static Pressure: 3.9~6.6 mm-H_2O**
- **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**

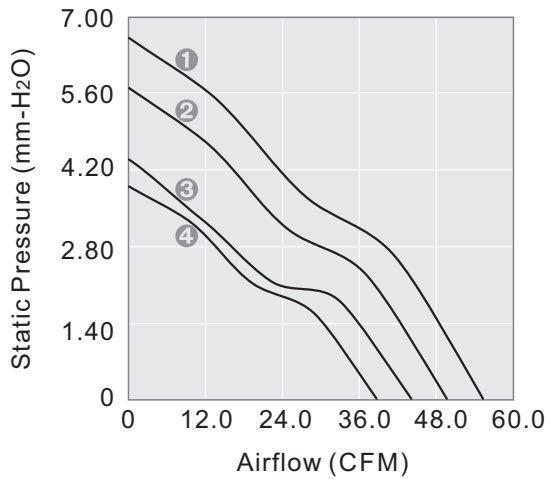
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H_2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
ADT08025115BL	2B	110	50/60	2800/3200	38.6/44.1	3.9/4.4	0.11/0.13	1.90/2.40	50000	4/3	34.0/38.5
ADT08025115BM	2B	110	50/60	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
ADT08025115BH	2B	110	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
ADT08025220BL	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
ADT08025220BM	2B	220	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
ADT08025220BH	2B	220	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

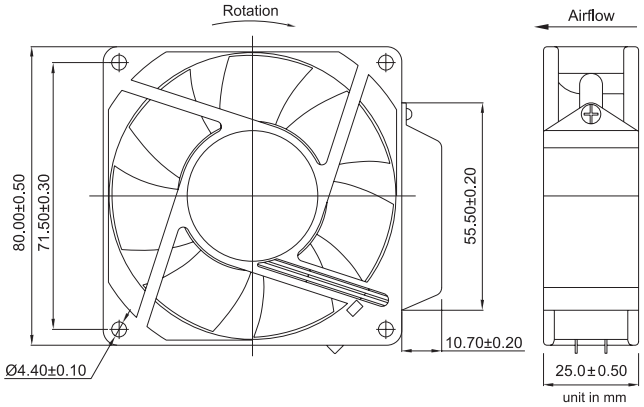
Voltage Available
115 230

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**

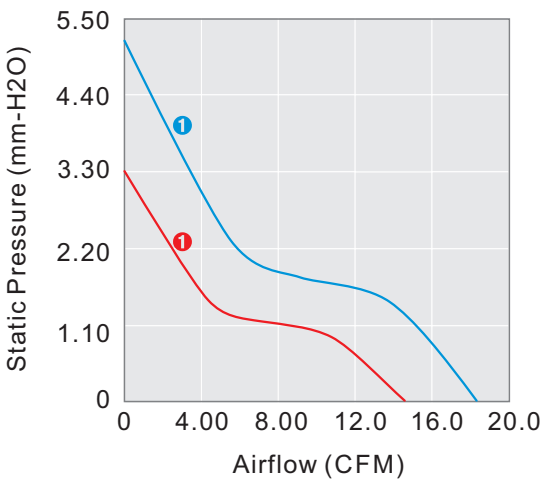
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT08025115SH	S	115	50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	20000	1/1	28.2/35.0
KW08025115SH	S		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	20000	1/1	28.2/35.0
KT08025115BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	60000	1/1	28.2/35.0
KW08025115BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	60000	1/1	28.2/35.0
KT08025220SH	S	230	50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	20000	1/1	28.2/35.0
KW08025220SH	S		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	20000	1/1	28.2/35.0
KT08025220BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	60000	1/1	28.2/35.0
KW08025220BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	60000	1/1	28.2/35.0

2B: 2-ball bearing S: sleeve bearing

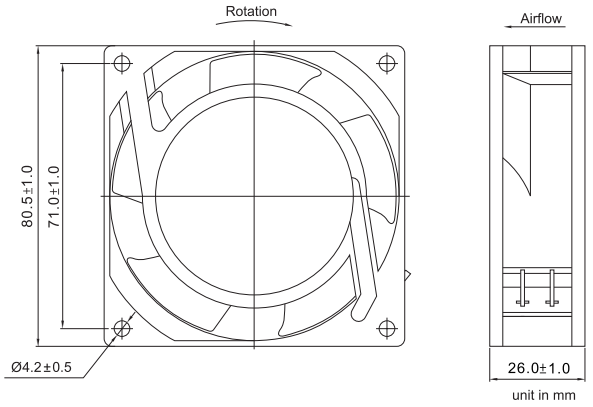
Voltage Available
115 230

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**

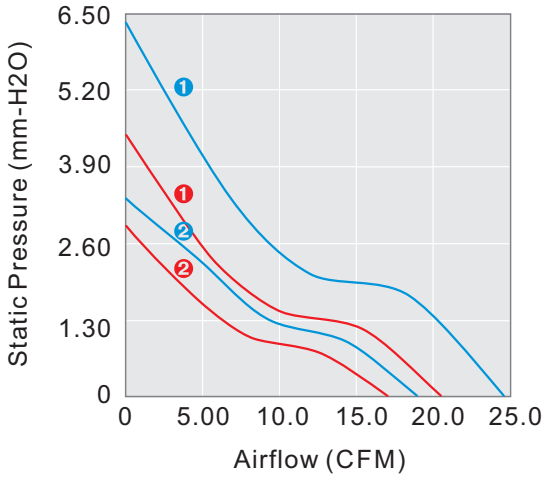
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT08038115SH	S	115	50/60	2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	20000	1/1	29.9/37.2
KW08038115SH	S		50/60	2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	20000	1/1	29.9/37.2
KT08038115BM	2B		50/60	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
KW08038115BM	2B		50/60	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
KT08038115BH	2B		50/60	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
KW08038115BH	2B		50/60	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
KT08038220SH	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
KW08038220SH	S		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
KT08038220BM	2B		50/60	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
KW08038220BH	2B		50/60	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
KT08038220BH	2B		50/60	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
KW08038220BH	2B		50/60	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

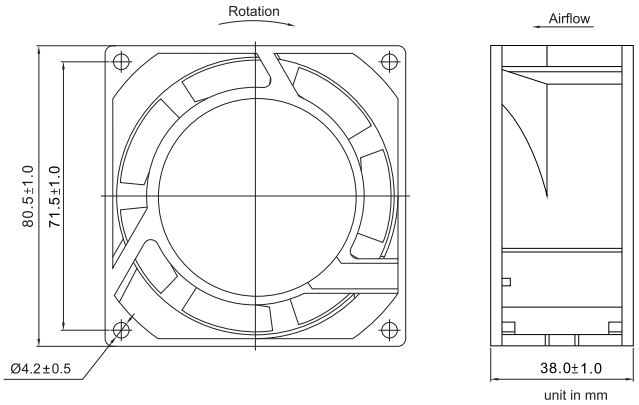
Voltage Available
115 230

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**

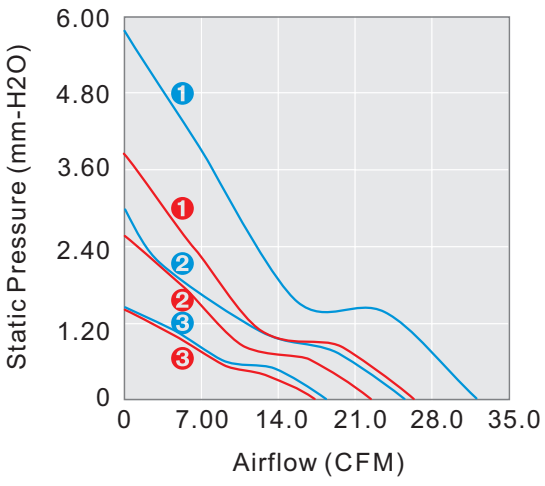
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT09225115SH	S	115	50/60	2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	20000	1/1	31.7/39.1
KW09225115SH	S		50/60	2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	20000	1/1	31.7/39.1
KT09225115BL	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
KW09225115BL	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
KT09225115BM	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
KW09225115BM	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
KT09225115BH	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
KW09225115BH	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
KT09225220SH	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
KW09225220SH	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
KT09225220BL	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
KW09225220BL	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
KT09225220BM	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
KW09225220BM	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
KT09225220BH	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
KW09225220BH	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

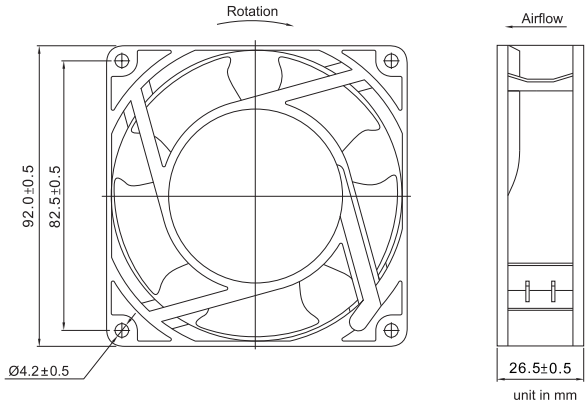
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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**

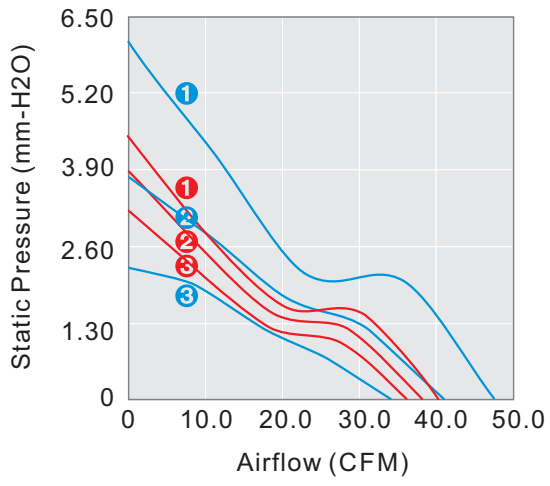
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT09238115SH	S	115	50/60	2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	20000	1/1	36.0/41.0
KW09238115SH	S		50/60	2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	20000	1/1	36.0/41.0
KT09238115BL	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
KW09238115BL	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
KT09238115BM	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
KW09238115BM	2B		50/60	2200/2400	38/40	3.88/3.78	0.07/0.06	11.0/9.0	60000	2/2	22.9/35.3
KT09238115BH	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
KW09238115BH	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
KT09238220SH	S	230	50/60	2550/3100	40/47	4.50/6.00	0.06/005	14.0/12.0	60000	1/1	36.0/41.0
KW09238220SH	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
KT09238220BH	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
KW09238220BH	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

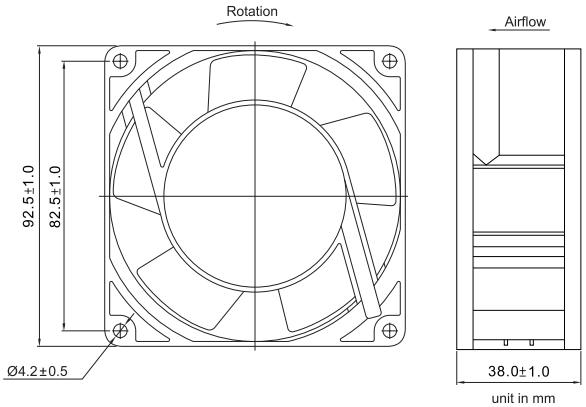
Voltage Available
115 230

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**

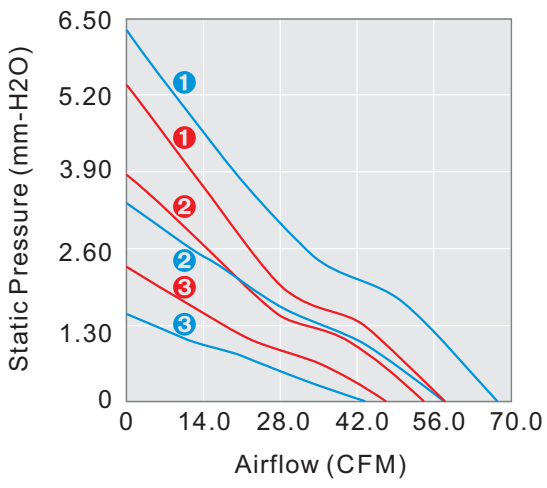
Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour		dB(A)
KT12025115SH	S	115	50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025115SH	S		50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KT12025115BL	2B		50/60	1800/1600	47.1/43.2	2.30/1.50	0.06/0.05	8.0/6.0	60000	❸/❸	36.7/35.0
KW12025115BL	2B		50/60	1800/1600	47.1/43.2	2.30/1.50	0.06/0.05	8.0/6.0	60000	❸/❸	36.7/35.0
KT12025115BM	2B		50/60	2200/2300	53.8/57.8	3.99/3.77	0.09/0.08	12.0/10.0	60000	❷/❷	43.0/45.0
KW12025115BM	2B		50/60	2200/2300	53.8/57.8	3.99/3.77	0.09/0.08	12.0/10.0	60000	❷/❷	43.0/45.0
KT12025115BH	2B		50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025115BH	2B		50/60	2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KT12025220SH	S	230	50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025220SH	S		50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2
KT12025220BL	2B		50/60	1800/1600	47.1/43.2	2.30/1.50	0.05/0.04	8.0/6.0	60000	❸/❸	36.7/35.0
KW12025220BL	2B		50/60	1800/1600	47.1/43.2	2.30/1.50	0.05/0.04	8.0/6.0	60000	❸/❸	36.7/35.0
KT12025220BM	2B		50/60	2200/2300	53.8/57.8	3.99/3.77	0.06/0.05	12.0/10.0	60000	❷/❷	43.0/45.0
KW12025220BM	2B		50/60	2200/2300	53.8/57.8	3.99/3.77	0.06/0.05	12.0/10.0	60000	❷/❷	43.0/45.0
KT12025220BH	2B		50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025220BH	2B		50/60	2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2

2B: 2-ball bearing S: sleeve bearing

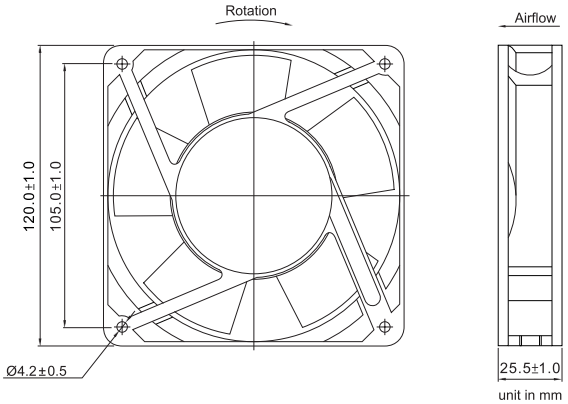
Voltage Available
115 230

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**

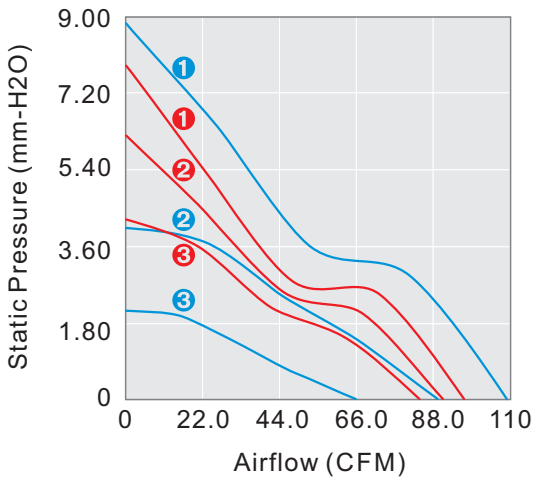
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT12038115SH	S	115	50/60	2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	20000	1/1	45.0/50.0
KW12038115SH	S		50/60	2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	20000	1/1	45.0/50.0
KT12038115BL	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
KW12038115BL	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
KT12038115BM	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
KW12038115BM	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
KT12038115BH	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
KW12038115BH	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
KT12038220BL	S	230	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
KW12038220BL	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
KT12038220BM	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
KW12038220BM	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
KT12038220BH	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
KW12038220BH	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

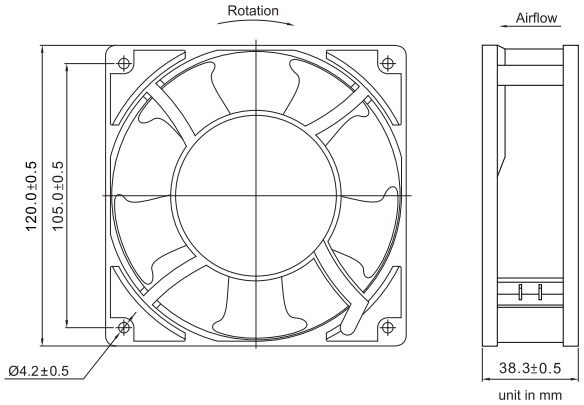
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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**

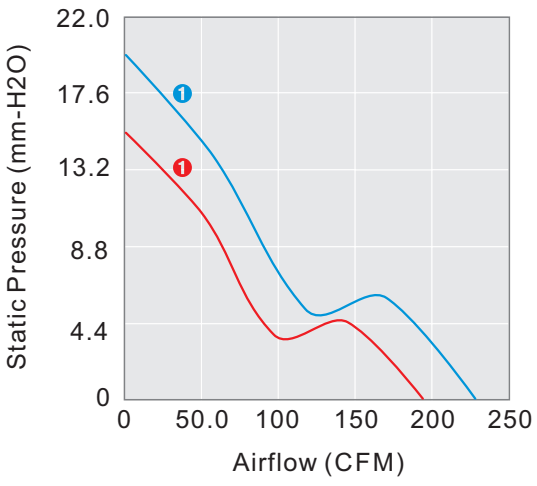
Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 25°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour		dB(A)
KT17251115BH	2B	115	50/60	2600/3000	190/223	15.0/19.0	0.24/0.25	24.0/28.0	60000	1/1	56.6/60.6
KW17251115BH	2B		50/60	2600/3000	190/223	15.0/19.0	0.24/0.25	24.0/28.0	60000	1/1	56.6/60.6
KT17251220BH	2B	230	50/60	2600/3000	190/223	15.0/19.0	0.12/0.16	24.0/28.0	60000	1/1	56.6/60.6
KW17251220BH	2B		50/60	2600/3000	190/223	15.0/19.0	0.12/0.16	24.0/28.0	60000	1/1	56.6/60.6

2B: 2-ball bearing S: sleeve bearing

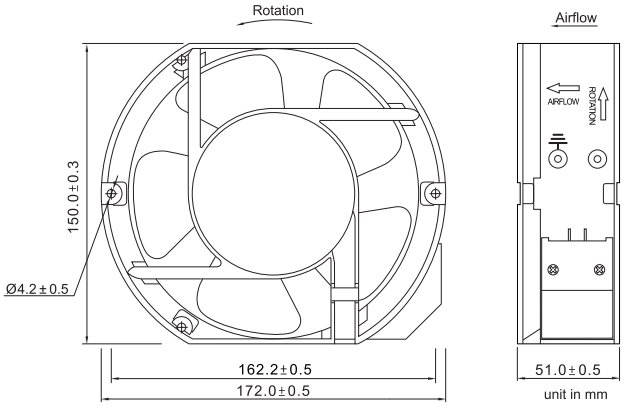
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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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**

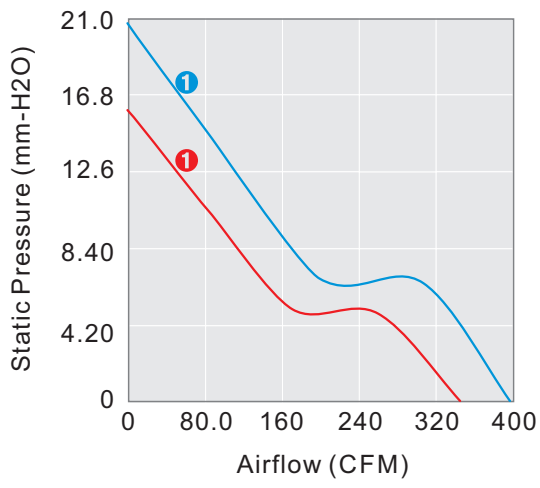
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 65°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT18089115BH	2B	115	50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	1/1	61.1/64.8
KW18089115BH	2B	115	50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	1/1	61.1/64.8
KT18089220BH	2B	230	50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	1/1	61.1/64.8
KW18089220BH	2B	230	50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	1/1	61.1/64.8

2B: 2-ball bearing S: sleeve bearing

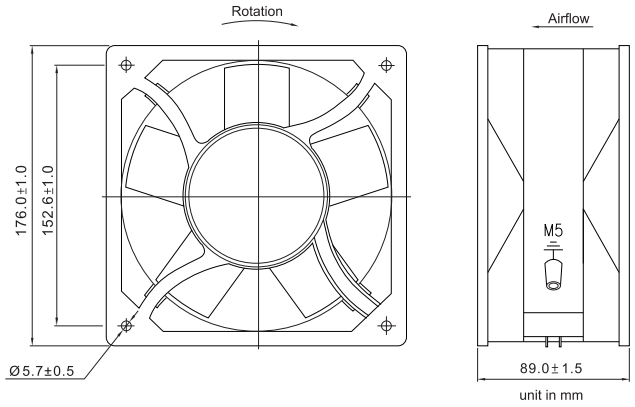
Voltage Available
115 230

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**

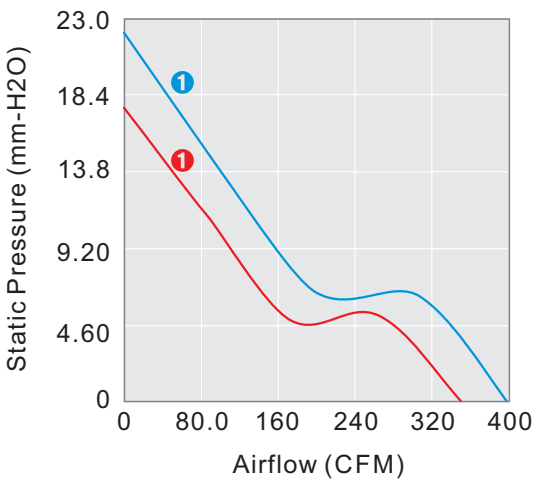
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 65°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT18065115BH	2B	115	50/60	2650/3200	349.5/397.5	17.6/22.0	0.57/0.48	50.0/52.0	40000	1/1	59.7/63.6
KW18065115BH	2B	115	50/60	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
KT18065220BH	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
KW18065220BH	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

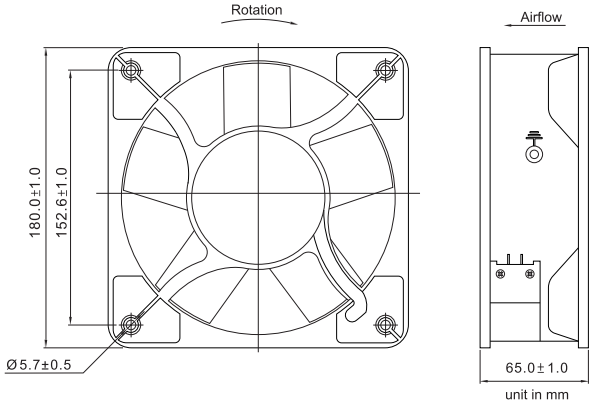
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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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**

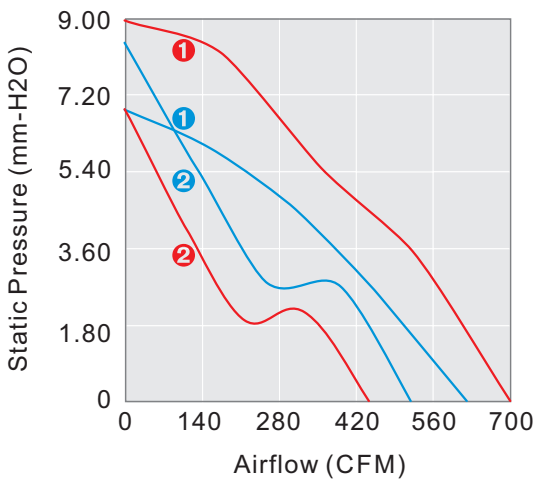
Model No.	Bearing	Rated Voltage VAC	Freq Hz	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 65°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT25489115BM	2B	115	50/60	1400/1600	443/518	6.87/8.39	0.22/0.24	34.0/37.0	40000	❷/❷	52.6/59.5
KW25489115BM	2B		50/60	1400/1600	443/518	6.87/8.39	0.22/0.24	34.0/37.0	40000	❷/❷	52.6/59.5
KT25489115BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.55/0.62	60.0/67.0	40000	❶/❶	61.6/57.6
KW25489115BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.55/0.62	60.0/67.0	40000	❶/❶	61.6/57.6
KT25489220BM	2B	230	50/60	1400/1600	443/518	6.87/8.39	0.16/0.14	34.0/37.0	40000	❷/❷	52.6/59.5
KW25489220BM	2B		50/60	1400/1600	443/518	6.87/8.39	0.16/0.14	34.0/37.0	40000	❷/❷	52.6/59.5
KT25489220BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.26/0.30	60.0/67.0	40000	❶/❶	61.6/57.6
KW25489220BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.26/0.30	60.0/67.0	40000	❶/❶	61.6/57.6

2B: 2-ball bearing S: sleeve bearing

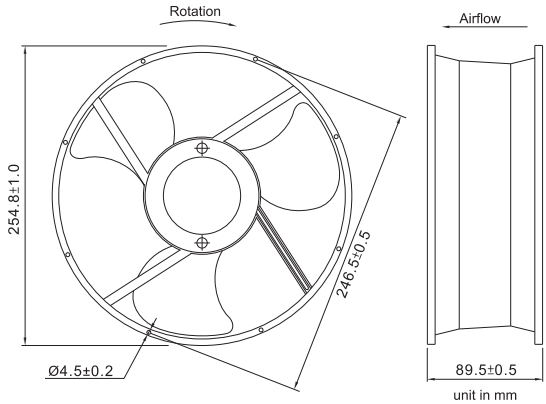
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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.ystechusa.com* for updated information. Customized Specifications are designed accordingly

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**

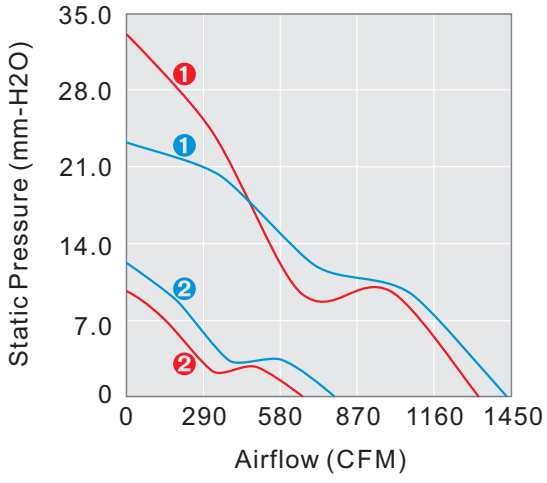
Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 65°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour		dB(A)
KT28089115BM	2B	115	50/60	1500/1700	655/ 779	9.65/12.2	0.82/0.67	61/ 60	40000	❷/❷	56.2/59.0
KW28089115BM	2B		50/60	1500/1700	655/ 779	9.65/12.2	0.82/0.67	61/ 60	40000	❷/❷	56.2/59.0
KT28089115BH	2B		50/60	2800/3200	1321/1424	33.0/23.1	1.65/2.50	185/300	40000	❶/❶	67.8/69.3
KW28089115BH	2B		50/60	2800/3200	1321/1424	33.0/23.1	1.65/2.50	185/300	40000	❶/❶	67.8/69.3
KT28089220BM	2B	230	50/60	1500/1700	655/ 779	9.65/12.2	0.42/0.35	62/ 65	40000	❷/❷	56.2/59.0
KW28089220BM	2B		50/60	1500/1700	655/ 779	9.65/12.2	0.42/0.35	62/ 65	40000	❷/❷	56.2/59.0
KT28089220BH	2B		50/60	2800/3200	1321/1424	33.0/23.1	0.75/1.25	185/290	40000	❶/❶	67.8/69.3
KW28089220BH	2B		50/60	2800/3200	1321/1424	33.0/23.1	0.75/1.25	185/290	40000	❶/❶	67.8/69.3

2B: 2-ball bearing S: sleeve bearing

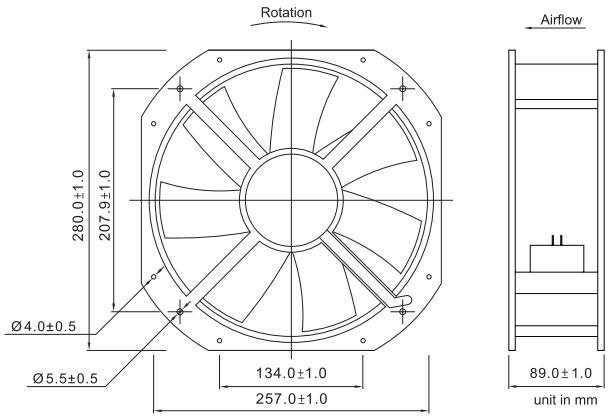
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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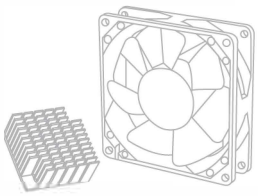

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