



PRODUCTS GUIDE

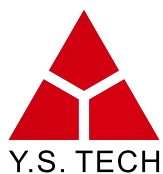
COOLING SOLUTION ENGINEERING HANDBOOK

Your Best Partner® Cooling & Ventilation

國際中文版



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



PRODUCTS GUIDE

COOLING SOLUTION ENGINEERING HANDBOOK

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DG Fan



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

50mm		
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60mm		
BD6018 SERIES	60x18mm	64
BD6025 SERIES	60x25mm	65
75mm		
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97mm		
BD9733 SERIES	97x33mm	67
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120mm		
BD1232 SERIES	120x32mm	69

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

散熱片與散熱模組 11



AG Fan

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

企業願景

台灣元山科技成立於1987年，為全球電子散熱、通風方案設計與製造專業大廠。整合了包含：流體動力、系統熱場分析、心理聲學、振動與智慧型馬達控制等核心技術，提供汽車電子、綠能、電力電子、5G通訊與資料中心及高階工業等領域散熱模擬散熱方案規劃的服務，以及高性能、高可靠度之直流無刷(BLDC)散熱風扇、EC風扇、散熱片及散熱模組一系列產品，以「Y.S. Tech」品牌行銷全球，為您最佳的散熱與通風方案夥伴。

核心技術

Your Best Partner
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未來AI科技將會大幅改變我們的生活型態，擁有智能控制、彈性設計以及高可靠度的電子機械設備將會在智慧工廠、無人駕駛汽車、大數據、醫療照護以及生命科學領域變革中扮演舉足輕重的角色。元山科技致力於成為最佳的散熱與通風方案夥伴，堅持設計與製造出高性能與高品質的散熱與通風產品。在仿生物流體力學、空氣動力模擬與分析、聲學、振動分析、熱力學、軟硬體控制系統以及智能製造等領域中，我們每年持續投入大量資源研究，並取得全球超過800項以上的專利。



品質與環境政策

● 品質政策

高科技 研發創新、高品質 顧客滿意

● 環境政策

節約減碳、預防汙染、珍惜資源、遵循法規、持續改善、全員參與、永續經營。

元山科技相信品質、環境保護以及身心健康的團隊成員是讓公司穩定發展的根基。根據這個指標，我們致力於產品以及組織流程的持續改善與創新，我們導入IATF 16949、ISO 9001、ISO14001 等國際標準程序，並由國際組織TUV認證，成為德國與中國車廠一級供應鏈專業大廠。

如元山科技的經營政策方針，我們提供的高質量散熱和通風解決方案不僅滿足技術要求，我們也關懷人類及綠色生存環境的重要使命。我們致力於研究仿生物流體力學、空氣動力模擬與分析、聲學、振動分析、熱力學、軟硬體控制系統，以實現更佳的散熱和通風解決方案，同時具備壽命長，高可靠性和綠能環保特性。我們相信高優質以及可靠度高的產品可以減少浪費，環保產品可以節省更多的資源及減少地球破壞。元山科技不只是您最佳的散熱與通風方案夥伴，更致力為維護綠色地球的使命做出一份貢獻。





職業健康與安全政策

元山科技為一OHSAS 18001/ISO 45001認證之國際優良企業，公司採取一系列持續性培訓方案，以使集團所有成員對職業、工作、自身及環境的安全與健康狀態獲得更好的認知，以預防風險。在具體措施上我們提倡各種防呆性(Poka-Yoke)除錯方案，持續性改進，以促進全體員工身心健康，打造一個安全、幸福的工作環境，並有效地確保全球法規的實踐。



職場文化、工作生活與職涯規劃

團隊合作、開放、直接、分享、批評與支持塑造出元山科技的文化與工作生活。我們總是鼓勵團隊挑戰卓越、持續改善及創新，以創造出更多價值。元山科技提供許多彈性的學習機會，我們不僅為所有團隊成員提供培訓課程，還為團隊成長提供個別的學習計劃。成為全球最佳散熱與通風方案合作夥伴是我們的信念，我們絕對可以做到。

FD 24 80 25 E B - N (Suffix)

1 2 3 4 5 6 7

Explanation

1 Product Series(2 codes)

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

2 Voltage Type(2 codes)

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

3 Dimension (2 codes)

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

4 Thickness(2 codes)

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

5 Speed(1 code)

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

6 Bearing Type(1 code)

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

7 Impeller Type(1 code)

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

(Suffix):(2 A 7 L F)

a b c d e

a : Number of Bearing

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

b : Function

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

c : Speed Level

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

d : Customized Version

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

e : Special Model Version

AC Fan Model Numbering System

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

1 2 3 4 5 6 7 8

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

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

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

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

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

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

7 Connecting Type / L : Lead Wire T : Terminal

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

Suffix : Protection Function / E : External Rotor Fan
T : Temperature Sensor
TC : Temperature Sensor+Capacitor

一般而言，多數使用者會參考產品規格中的最大流量、最大靜壓以及轉速來選擇散熱軸流風扇或者是鼓風機。但這並非是一個完整的做法，因為風扇是在系統內運轉！元山科技建議您關注於風扇性能曲線圖中的需求工作點，而非僅是最大風量、風壓或者是轉速。

同時，散熱條件不僅於流量、靜壓，同時也須考慮到散熱功率以及聲學噪音。然而，這幾個關鍵因素是魚與熊掌，不可兼得，因此我們要如何選擇一個可解決散熱需求的風扇。接下來，我們將在下列說明幾種方式解釋如何選擇一顆好的風扇。同時我們也會提出其他重要的技術議題，例如L10、RoHS以及應用上的說明。

步驟1：挑選風扇時應該確認的五個重要提問

我們應該先確認5個散熱需求上的問題，包含：

瓦數：你需要解決多少熱能？

系統風組阻抗：在你系統設計中風組阻抗有多大？

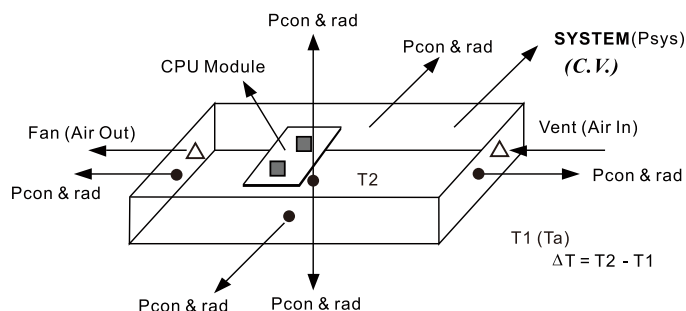
噪音：你對聲學噪音的要求是多少？

溫度梯度：你設計的溫降需求 ΔT 是多少？

尺寸：你需要的風扇尺寸是什麼？

步驟2：選擇適合的風扇來符合你對散熱的需求

熱傳導的因素包含了傳導，對流和輻射。許多藉由傳導以及輻射的導熱效果與系統有關，舉例來說，一個高質量的機殼或者散熱片對於散熱方案是更有效的。對流效應包括自然對流和強制對流。散熱風扇與鼓風機是產生強制對流的主要因素，而且能讓整個散熱方案更有效。圖1顯示了正常的散熱狀態系統， $P_{con \& rad}$ 提供自然對流和輻射傳遞的散熱。 P_{sys} 表示系統的總功耗。 P_{fan} 表示需要散熱風扇或鼓風機散熱的強制對流。 $T1$ 代表的是環境溫度， ΔT 表示溫度梯度 $\Delta T = T2 - T1$ ， $T2$ 是具有公差的散熱規格關鍵部件。



圖表1：系統散熱傳導示意

接下來我們可以藉由以下公式計算需求的風量

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

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

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

Q_{eff} : Efficiency Flow Rate

ρ : Gas Density

C_p : Specific Heat of Gas

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

ΔT_f : Allowable temperature rise in degree Fahrenheit

ΔT_c : Allowable temperature rise in degree Celsius

通過結合轉換因子，比熱和海平面空氣的密度，我們可以用上述方程式定義出有效流量 Q_{eff} 。 Q_{eff} 與風扇的操作點必須要吻合，換句話說，風扇的操作點至少要等於 Q_{eff} 。

風扇的工作點為風扇性能曲線(流量、靜壓)與系統風阻阻抗曲線的交叉點。這會因為不同的系統或者組件放置因素而有所差異。一般而言，是透過靜壓， ΔPi 做測量。以下為計算公式：

$$\Delta Pi = kQ^n$$

k : System form factor constant value.

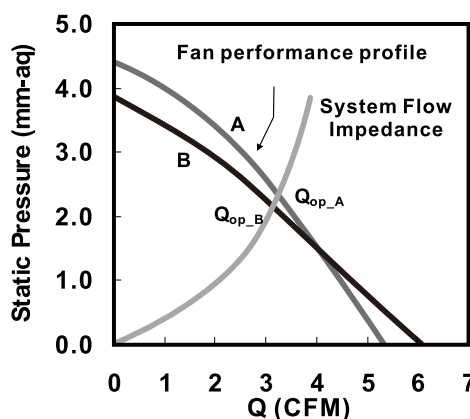
Q : Flow rate by different impedance

n : Coefficient of turbulence

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

圖表2表現出兩顆不同的風扇性能曲線圖以及系統風阻阻抗曲線，儘管B的最大流量比A還高，但是 Q_{op_A} 是比 Q_{op_B} 還優異， Q_{op_A} 與 Q_{op_B} 都是操作點。

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.



圖表2：風扇性能表現比較

如果 $Q_{op_B} < Q_{eff} < Q_{op_A}$ ，那麼對於散熱方案來說，風扇A是個更適合的選擇，這也是相較於最大流量、靜壓或者轉速，我們更重視風扇在整體散熱或通風需求上的性能表現。

步驟3：選擇低噪音的散熱方案

如前提，流量、靜壓以及噪音是相互抵換的，要同時考慮這一些因素也是令人困擾。此外，因為不適合的應用也會產生許多的問題，例如風扇不正確地安裝在機殼中可能會導致振動、流量擾動進而產生高噪音。因此，以下介紹一些低噪音設計提供參考：

1. 一個適當的系統風阻阻抗設計

高系統風阻組抗需要高靜壓風扇，但同時也伴隨著更高的噪音。需要為關鍵部件留出足夠的空間，並儘可能將它們放在流路上。但在狹小空間要讓出給散熱風扇也是一個困難工作。儘管如此，我們建議你測量系統風阻阻抗並且蒐集足夠的參數來得知 ΔP_i 。一般來說，專業的風扇製造商會使用風洞設備來協助測量。

2. 藉由 Q_{eff} 選擇適合的風扇

我們已經展示了方法，藉由 Q_{eff} 來選擇適合的風扇，你也需要考慮到功率消耗以及聲學噪音。哪一項會是優先考量呢？在相同的 Q_{eff} 基礎下，比較這兩個參數是我們推薦的方法！

3. 確認適合風扇以及應用系統的機構設計

振動與流量干擾會造成共振以及更高的聲學噪音。適當的風扇安裝方式與流道設計可以減少噪音產生，舉例來說，在高轉速的風扇安裝上減振墊可以減少共振。重新確認設計，確保風道流入與流出口有足夠的空間（超過1.5毫米），也沒有任何東西干擾流量。

4. 藉由你的散熱曲線控制風扇轉速

(軟、硬體/LIN/CAN BUS 控制)

散熱曲線與風扇性能曲線相似。一般來說，不同的功能會有不同的散熱需求，我們可以調整風扇轉速並且在不同的工作系統中保持適當的轉速。目前最新的技術是採用PWM控制(脈衝寬度調變)及熱傳感器(NTC)等溫控元件電路設計來達到噪音及耗工率的控制，程式控制可以得到更精確的轉速與噪音控制。也可藉由MCU程式控制設計更精準的控制。

5. 聲音質感分析

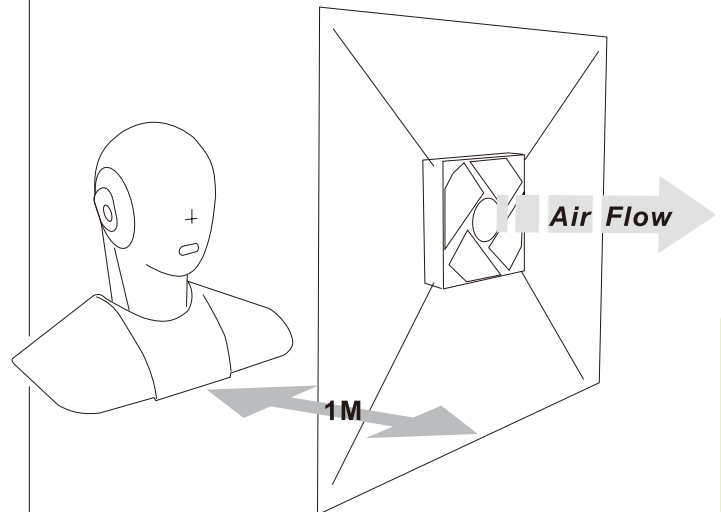
在散熱風扇產業中，過去我們總是聚焦於聲壓分析，但隨著法令規範噪音降低，客戶對於噪音干擾的關注度也逐漸地提高。因此，僅降低噪音水平是不足以解決人們因為察覺到噪音而產生的困擾，這是因為人類主觀的聽覺感知經常被忽視。然而聲音的判斷通常參雜了許多不同程度的因素組成，而形成了整體的聽覺

驗證方式是基於正確的紀錄以及聲學環境產生的噪音，來反映出人體主觀的感知。為了要記錄整個感知，必須要考慮到像是心理聲學特徵以及感知部分。心理聲學的主要焦點是人類的主觀聽覺感知，並且客觀地描述這種主觀的感受。與一般僅記錄聲壓位準的測量不同，心裡聲學測量方法更考慮到了實際的聽覺印象。

元山科技與德國產業同步，採用仿真人工耳聲學測量系統的聲音品質分析系統，這也是在汽車產業最歡迎的量測系統，仿真人工耳以及相關分析工具；其參數包含了「SPL，聲壓級」，「音調」，「聲響」及「調變」。

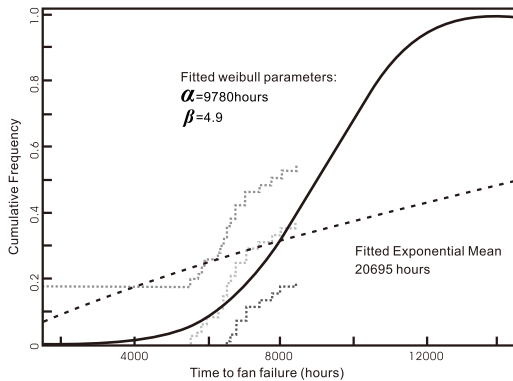
量測方法與標準如下圖：

1. 全無響室噪音量測系統
2. 數位人頭量測系統，16位元版本
3. 聲音品質實驗室SQLab III，多渠道分析系統
4. 規範：ISO 7779, CNS 6753, JIS 8346
5. 背景噪音：<17dB(A)



散熱風扇預期壽命：L10以及MTTF

風扇的可靠度可藉由計算的方式來推估。壽命測試的數據可以繪製為累積分佈，顯示風扇在一段運行時間內失效的總分數。表格1即是累積分佈的樣本，48個風扇中，有18個風扇在8,400小時後停止。



表格1：樣本累積分佈函數，韋伯分布與95%信賴區間的比較
(資料來源：IBM Corp.，1996年5月，第2卷，第2期，電子冷卻)。

有些供應商根據指數假設提供客戶預期壽命。然而，壽命測試並不支持指數假設。雖然過去的實驗表明，韋伯分佈適合真實的風扇壽命數據，韋伯分佈的累積分佈函數F(t)如下：

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

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

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

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

一般來說，風扇供應商會推薦L10作為預期壽命的參考數值，這也代表了壽命在假設分布下的第十百分位的統計推論如韋伯分布機率函數。有時供應商也會引用平均故障時間 (MTTF)，接著我們需要通過以下公式計算出L10和MTTF之間的相關性。

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

在我們驗證了L10和MTTF之間的相關性之後，我們也需要知道測試樣本需要的時間，來確定90%信賴區間中L10大於或等於測試溫度的預期值沒有失效 ($x=0$)。

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

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

通常在90%信賴水平和0失敗的條件下，
 $Br; c = 2.303$ 。

然後我們會介紹Takes Martin Marietta模型來估計在不同環境壓力下的壽命。

$$AF = [V_a / V_u] \times 2^{(T_a - T_u)/10}$$

where
 AF : Acceleration Factor
 V_a : Actual Testing Voltage
 V_u : Rating Voltage
 T_a : Actual Testing Temperature
 T_u : Rating Temperature
if $V_a = V_u$
then $AF(t) = 2^{(T_a - T_u)/10}$

接下來我們可以定義測試時間如下：

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

where $MTTF$ is an expectancy value

物 質	容許量(ppm)		
	RoHS	SONY SS-00259	REACH
鎳與鎳化合物	1. 塑料、橡膠 2. 塗料 3. 墨 4. 焊料 其他同質物	N.D. <20 <50	-- -- --
鉛與鉛化合物	1. 塑料、橡膠 2. 塗料 3. 墨 其他同質物	<50 <1000 --	-- -- --
汞與汞化合物	所有物質	N.D.	--
六價鉻 Chromium (VI):	含金屬的部件或者是有金屬塗層 其他同質物	N.D. <100	-- --
多溴聯苯、多溴二苯醚	其他同質物	<100	--
鄰苯二甲酸二異丁酯	其他同質物	<1000	--
鄰苯二甲酸二丁酯	其他同質物	<1000	--
鄰苯二甲酸二苯基酯	其他同質物	<1000	--
鄰苯二甲酸二(2-乙基己基)酯	其他同質物	<1000	--
紅磷	其他同質物	N.D.	--
在產品包裝中四種重金屬總濃度 (塑料 (包括橡膠) 中鎳的濃度必須低於5ppm)		<80	--
合金鎳的鉛濃度		<3500	--
鋁合金的鉛濃度		<4000	--
銅合金的鉛濃度		<40000	--
高度關切物質		--	<1000

1. 元山科技(Y.S. TECH)保證我們生產的所有產品，包含所有的部件、物質、包裝材料、製造過程以及添加物皆符合2011/65/EU (RoHS 2.0)和2015/863/EU的指令。

2. 預處理與測量標準

I. 預處理

1. 鎳/鉛/汞

1.1 依材質以適當酸液消化	1.3 定量
1.2 確認待測物品完全地溶解	1.4 依據ICP-OES分析

2. Cr6+

2.1 金屬：

2.1.1 取50 平方公分樣品進行沸水萃取	2.1.4 目測法
2.1.2 冷卻並過濾萃取液	2.1.5 使用UV-VIS 分析
2.1.3 定量並加入顯色劑	

2.2 聚合物/電子產品：

2.2.1 可溶性塑膠：	
(1) 秤重	(4) 與DCP 試劑反應
(2) 加NMP，超音波萃取	(5) 以去離子水定量
(3) 鹼液消化	(6) 使用UV-VIS 分析
2.2.2 不可溶/未知塑膠與電子材料	
(1) 秤重	(4) 取水相與DCP 試劑反應
(2) 加甲苯及消化液	(5) 以去離子水定量
(3) 微波加熱	(6) 使用UV-VIS 分析

3. 多溴聯苯/多溴聯苯醚：

3.1 秤重並加入有機溶劑	3.3 濃縮後定量
3.2 溶劑萃取	3.4 使用GC-MS 分析

4. 鄰苯二甲酸酯(DIBP, DBP, BBP, DEHP)：

4.1 製樣	4.3 溶劑萃取
4.2 秤重後定量	4.4 使用GC-MS 分析

5. 紅磷：

5.1 製樣	5.3 使用Pyrolyzer-GC-MS 分析
5.2 放到樣品杯中	

6. REACH-SVHC

6.1 製樣
6.2 樣品經酸消解，溶劑萃取
6.3 使用ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD分析

*1: 各材質添加酸液如下表：

材質	添加酸液種類
聚合物	硝酸、鹽酸、氫氟酸、雙氧水、硼酸
金屬	硝酸、鹽酸、氫氟酸
電子產品	硝酸、鹽酸、雙氧水、氫氟酸

*2: 當待測樣品溶液顏色明顯比0.13 µg/cm² 深，採用目測法判定六價鉻結果為陽性。

II. 測量方法

基本的測量方式如下

- 鎳/鉛：IEC 62321-5:2013
- 汞：IEC 62321-4:2013
- 六價鉻：
 - IEC 62321-7-1:2015 (沸水萃取)
 - IEC 62321-7-2:2017 (溶劑與鹼劑萃取)
- 多溴聯苯/多溴聯苯醚：IEC 62321-6:2015
- 鄰苯二甲酸酯(鄰苯二甲酸二異丁酯，鄰苯二甲酸二丁酯，鄰苯二甲酸苯基丁酯，鄰苯二甲酸二(2-乙基己基)酯)：IEC 62321-8:2017
- 紅磷：使用Pyrolyzer-GC-MS 分析
- REACH-SVHC：依照實驗室內部裡面的規範進行測試

III. Environmental Logo 環境標章



Environmental Concern & Keep Improving

散熱風扇與鼓風機應用說明

I. 測試條件與定義

多數散熱風扇是在環境溫度25°C、濕度65%RH的狀態下運轉5分鐘後測量。工作電壓以及溫度是風扇在額定電壓連續運轉後所定義。啟動電壓是在電壓on/off的狀態下定義，轉速則是在風扇的額定值全速下定義。除了鎖住轉子保護有特別的說明外，元山科技強烈建議不要強行阻止在運轉中的風扇，這樣的干涉會導致不良結果

聲學噪音值與一般的噪音值不同，我們是在背景噪音低於17dBA的狀態下，得到聲學噪音等值。L10 的壽命測試是統計方法下的推估評價，與產品保固期不同。

II. 使用方式

當風扇在運轉或者是拿取時，請小心安全。在扇葉面施壓、直接從導線拿取風扇或者是風扇摔落都有可能導致損壞。風扇也請存放於乾燥涼爽的地方，高濕度的環境對風扇是有損害風險。如果風扇存放在5°C的環境下超過24小時，請先將風扇存放在超過20°C的環境，並等待至少24小時後再使用，而所有的規格也必須在運轉30分鐘後再做量測。

在連接電源前，必須清楚識別正極以及負極極性。請注意，正負電源極性的連接可能會導致損壞。

除了某些特殊設計的產品外，標準產品無法保證因為粉末、水滴或插入物掉入外框或扇葉而導致的產品安全性，以及任何可能的故障和問題；同時產品也不適合應用在任何有液體，氣體或物質腐蝕性的環境。

III. 售後服務

若產品發生異常或者出現與規格書不符情況，必須先向元山科技提出書面要求與同意。同時，也需要將不良品返還給元山科技以進行後續細節分析。

IV. 其他提醒

請注意，對於因風扇安裝不正確而導致的過度共振、振動或者是連續噪音，元山科技概不負責。拿取運轉中的風扇請務必小心。建議使用手指防護措施免於人員傷害。為了避免任何不穩定的電源，不管風扇是單獨或多個風扇並聯使用，都必須在外部連接一個大於4.7µF的電容器。

1. Air Flow Rate

II. Static Pressure

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

IV. Acoustic Noise

where $P_0 = 20 \mu P_a$

P_0 : the reference sound pressure of human hearing system

ii) *By Rotational Speed (rpm)*

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

where

N_i = Noise level measured at rpm_i

N_2 = Noise level calculated at rpm,

i) By Measuring Distance

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

where

$$N_i = \text{Noise level measured at Distance}_i$$

N_s = Noise level calculated at Distance,

根據上述的等式，當距離加倍時，聲學噪音會減少6dB。

相對地，當距離減半時，聲學噪音也會增加6dB。

PW M frequency = 18 K Hz to 30 K Hz
 High Level I = 3.3V to 6V
 Low Level I = 0V to 0.4V
 PW M Range = 0 % to 100%

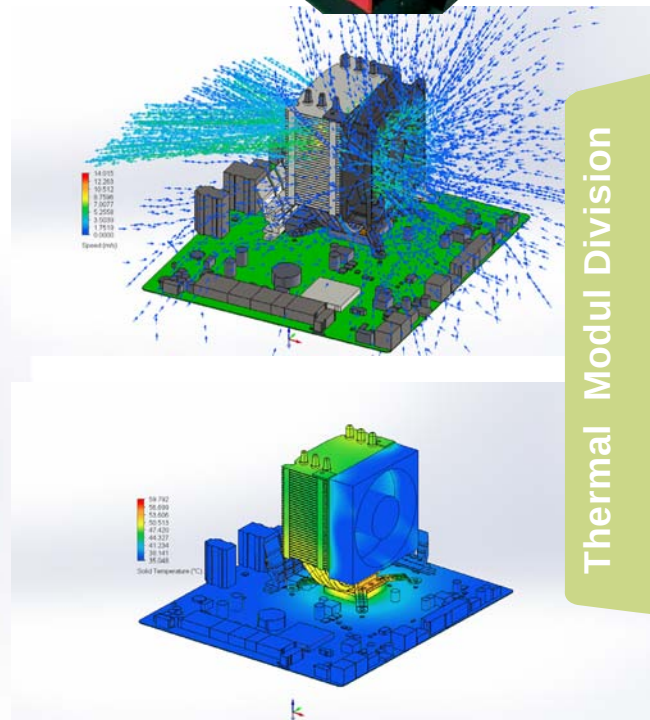
我們專精於：

- ▶ 「工件精密加工」
- ▶ 「多元零組件裝配與彈性化生產」
- ▶ 「表面處理與色彩技術」

技術支持：

1. 系統熱能與流量分析模擬
2. 系統耐熱與流量測試
3. 聲學分析與測試
4. 三次元精密量測與分析
5. 精密加工(公差範圍：IT6 - IT8)
6. 精密焊接技術
7. 散熱元件整合與組裝
8. 表面處理、電鍍以及電解陽極處理

Product Application



製程與材料(Process and Material)



鋁擠(Aluminum Extrusion)

鋁:AL 6063 、AL 6061



壓鑄(Die-Casting)

鋁: ADC12 、ADC10 、A380



沖壓(Punching)

鋁: AL 1050 、AL 1100 銅: CU 1100



焊接(Soldering)

銅與銅、銅與鋁、鋁與鋁的結合



剝削(Skiving)

鋁: AL 6063

銅: CU 1100



電腦數值控制加工(CNC)

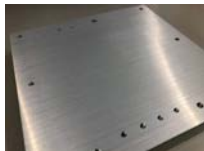
鋁: AL 6063 、AL 6061 、ADC10 、ADC12 、A380

銅: CU 1100

表面處理(Surface Finishing)



機械加工(Mechanical surface finishing)
噴砂處理(Sand blasting)

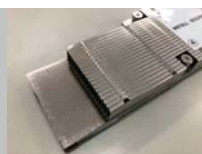


拉髮絲(Hairline finishing)

化學加工(Chemical surface finishing)
陽極處理(Aluminum Anodizing)



化學鍍(Electro-less Nickel Plating)

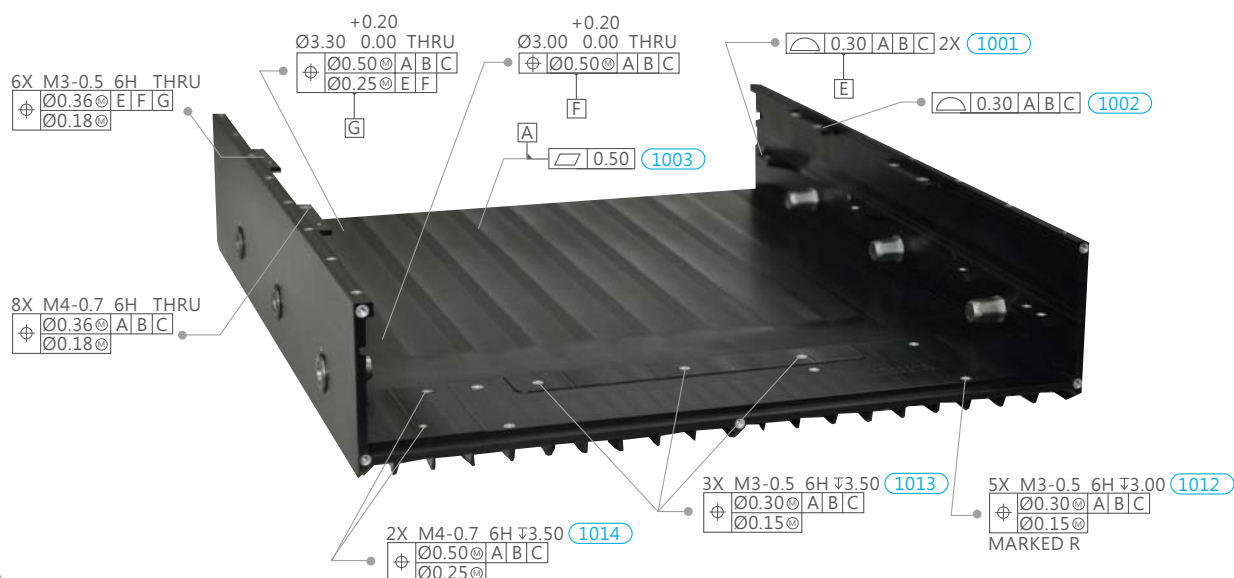


鈍化/抗氧化(Anti-oxidation)



鉻酸鹽處理 (Chromate)

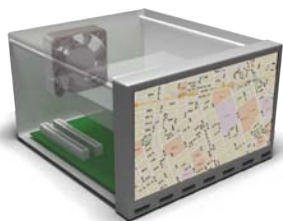
工件精密加工



元山科技的散熱模組與散熱片均為客製化產品，依據客戶的需求來設計與製造。請透過電子郵件 ystech@ystech.com.tw 提供您的規格和要求，或訪問元山科技的網站 www.ystech.com.tw，將您的需求留言給我們。元山科技將盡快與您聯繫。



Automotive Applications



Telematics System
(Navigation, Head Unit)



Car Seat Heating /
Cooling System



Multimedia Entertainment System



Auto Air Purification



Wide range of industries application



Rack-Mount Fan Tray



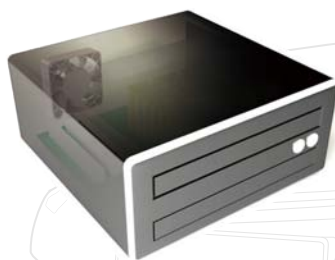
System Chassis Solutions



Network Storage / NAS



Head Lighting



Car Computer System



Audio Amplifier and DC/AC Inverter



Telecommunication Applications



Rack-Mount Ups Systems



Fast Ethernet Switch



1U~13U Network Storage and Server Systems



25x25x10mm

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

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

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

Voltage Available

05 12 24 48

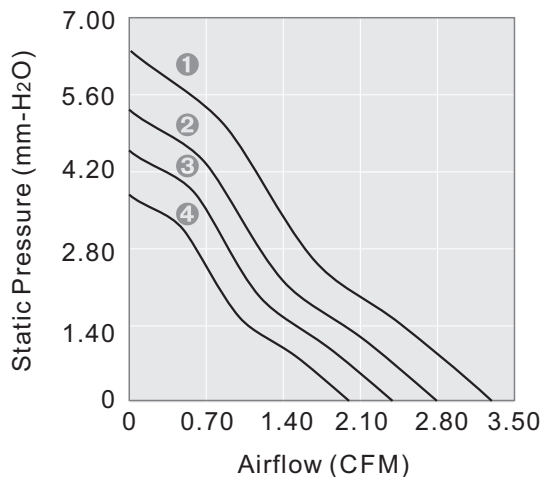
Bearing System Available

2B L S

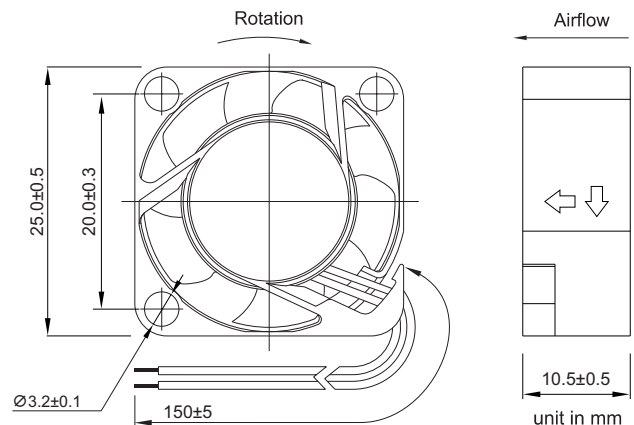
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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



30x30x10mm

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

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

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

Voltage Available

05 12 24 48

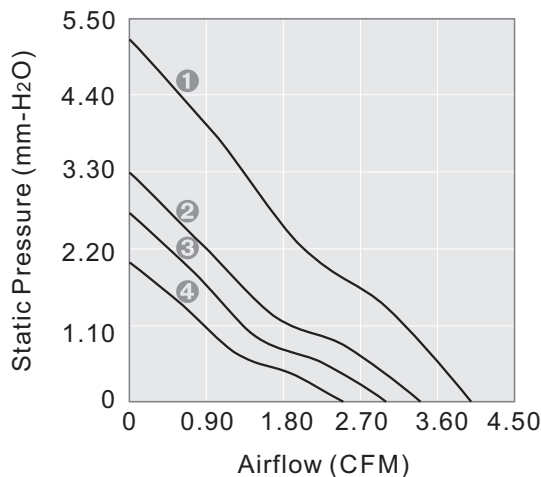
Bearing System Available

2B L S

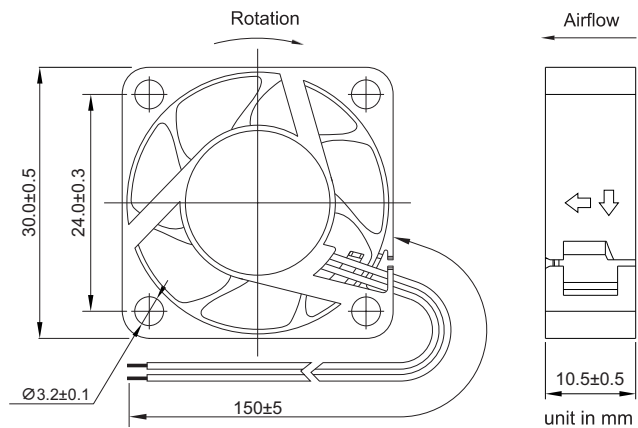
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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-H ₂ O	mA	W	Hour		dB(A)
FD053015LB-N	2B	05	4~5.5	7000	3.8	2.8	60	0.30	80000	4	<17.0
FD053015MB-N	2B		4~5.5	8000	4.4	3.7	85	0.42	80000	3	20.5
FD053015HB-N	2B		4~5.5	9000	4.9	4.4	110	0.55	75000	2	25.0
FD053015EB-N	2B		4~5.5	11000	5.7	6.3	200	1.00	65000	1	30.0
FD123015LB-N	2B	12	7~13.2	7000	3.8	2.8	30	0.36	80000	4	<17.0
FD123015MB-N	2B		7~13.2	8000	4.4	3.7	40	0.48	80000	3	20.5
FD123015HB-N	2B		7~13.2	9000	4.9	4.4	45	0.54	75000	2	25.0
FD123015EB-N	2B		7~13.2	11500	6.1	7.1	90	1.08	65000	1	30.0

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

Voltage Available

05 12 24 48

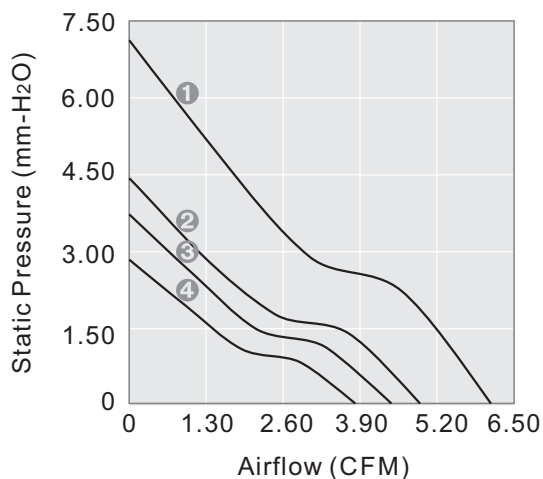
Bearing System Available

2B L S

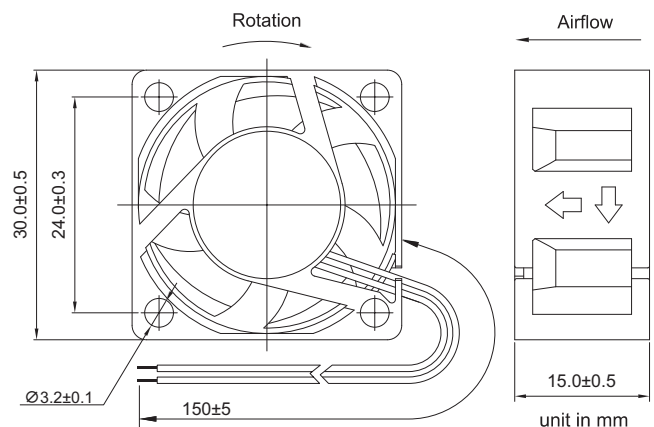
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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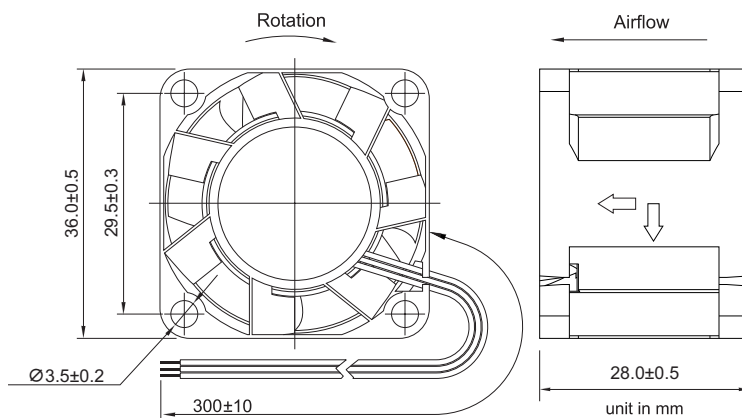


- **Airflow: 18.74~24.99 CFM**
- **Static Pressure: 36.63~65.09 mm-H₂O**
- **Blade / Housing:**
Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1061 #28 AWG**
- **Weight: 46.5 g**

[illegible]

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



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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**

[illegible]

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

Voltage Available

05 12 24 48

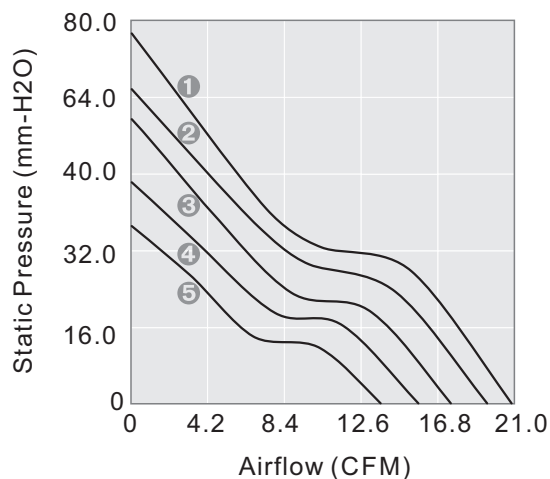
Bearing System Available

2B L S

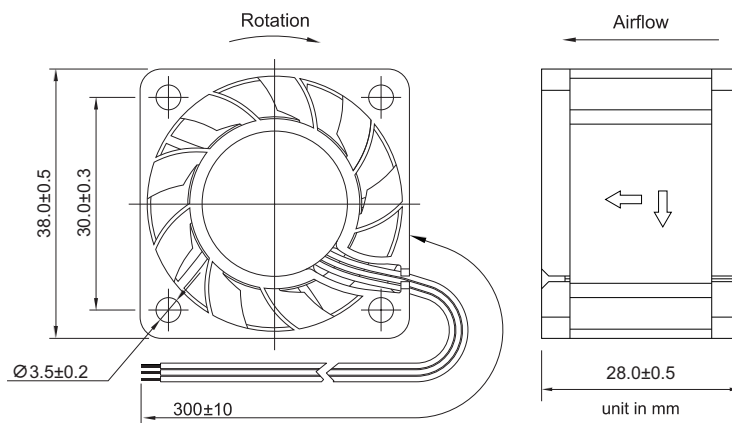
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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38x38x48mm

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

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

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

Voltage Available

05 12 24 48

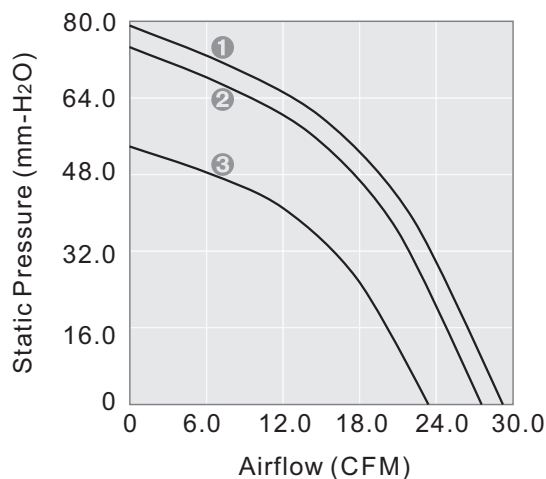
Bearing System Available

2B L S

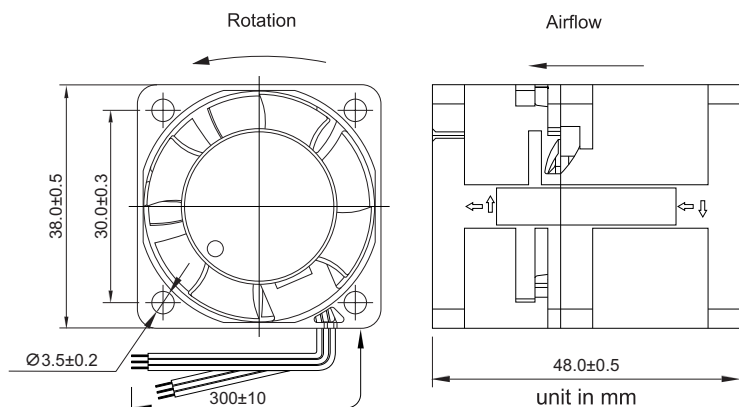
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x10mm

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

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

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

Voltage Available

05 12 24 48

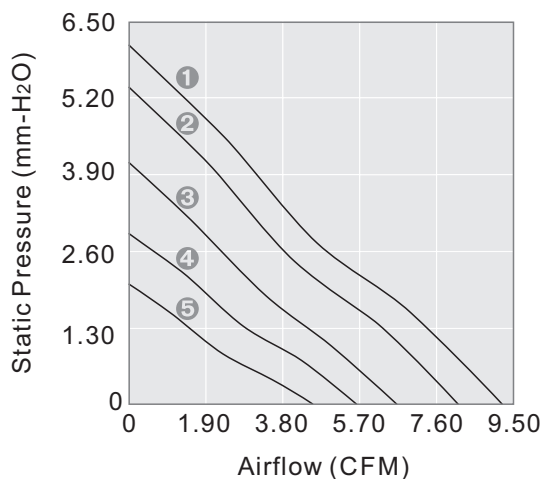
Bearing System Available

2B L S

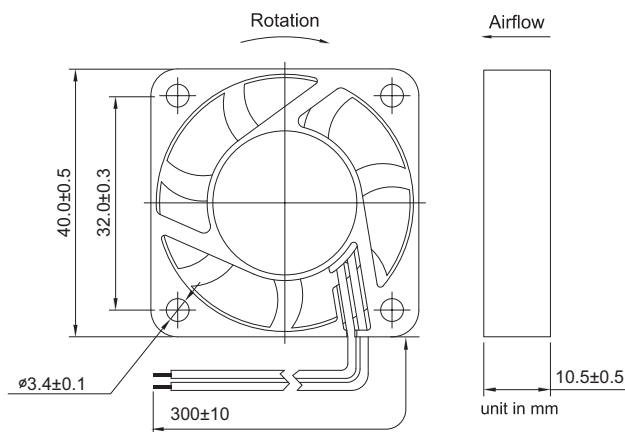
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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
FD054010LL-N	L	05	4~5.5	5000	5.08	1.69	70	0.35	50000	4	17.5
FD054010ML-N	L		4~5.5	6000	6.09	2.64	120	0.60	50000	3	21.5
FD054010HL-N	L		4~5.5	7500	7.69	3.64	180	0.90	50000	2	25.0
FD124010LB-N	2B	12	8~13.2	5000	5.08	1.69	25	0.30	80000	4	17.5
FD124010MB-N	2B		8~13.2	6000	6.09	2.64	40	0.48	80000	3	21.5
FD124010HB-N	2B		7~13.2	7500	7.69	3.64	60	0.72	75000	2	25.0
FD124010EB-N	2B		7~13.2	8500	8.71	5.09	80	0.96	65000	1	28.0
FD124010LL-N	L		7~13.2	5000	5.08	1.69	30	0.42	50000	4	17.5
FD124010ML-N	L		7~13.2	6000	6.09	2.64	50	0.60	50000	3	21.5
FD124010HL-N	L		7~13.2	7500	7.69	3.64	75	0.90	50000	2	25.0

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

Voltage Available

05 12 24 48

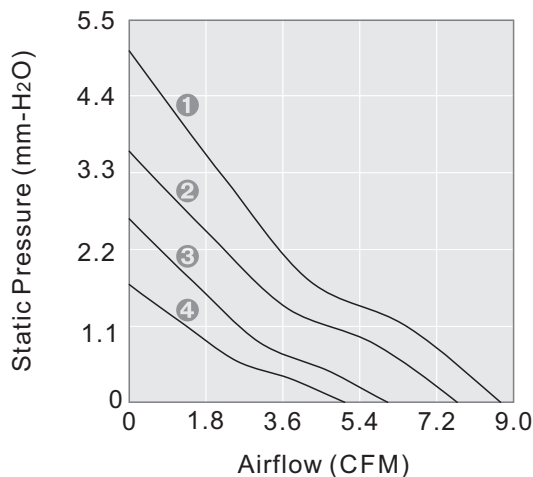
Bearing System Available

2B L S

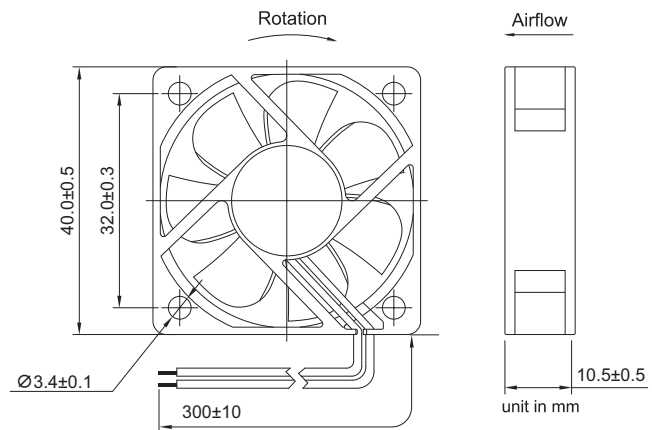
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x15mm

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

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

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

Voltage Available

05 12 24 48

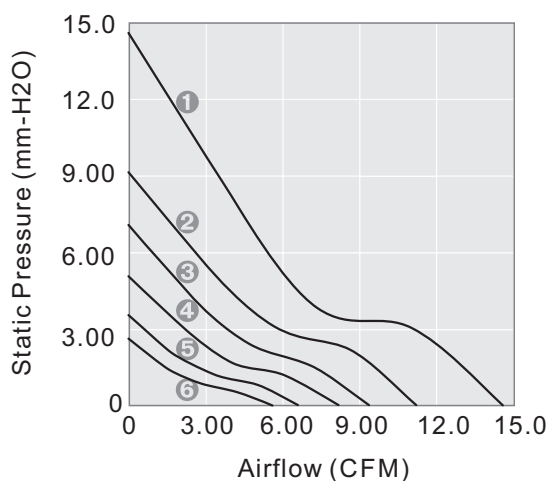
Bearing System Available

2B L S

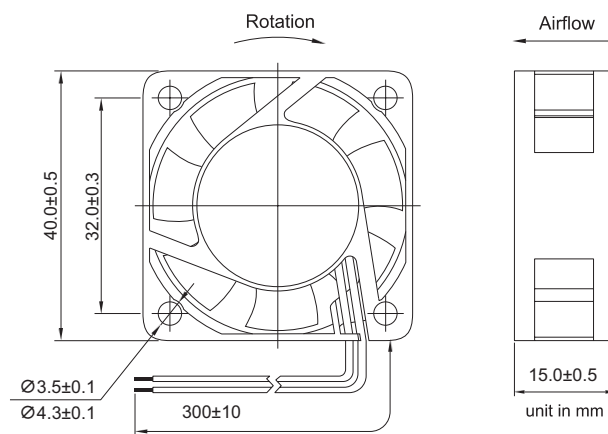
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x20mm

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

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

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

Voltage Available

05 12 24 48

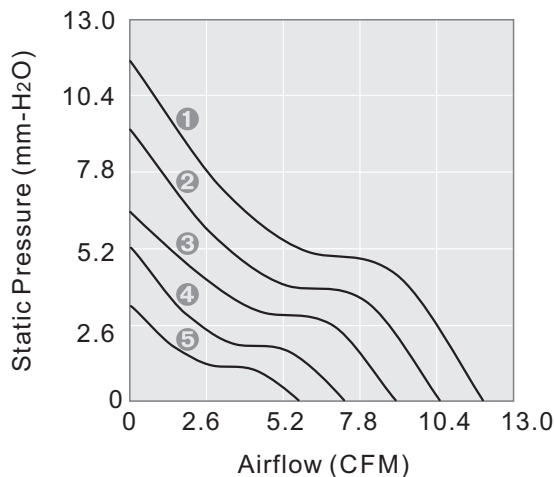
Bearing System Available

2B L S

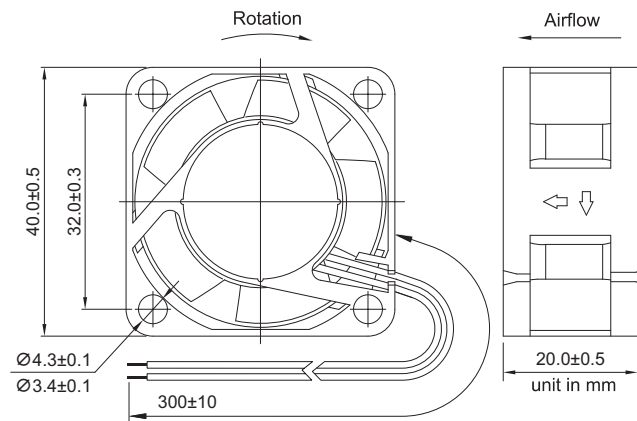
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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40x40x20mm

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

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

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

Voltage Available

05 12 24 48

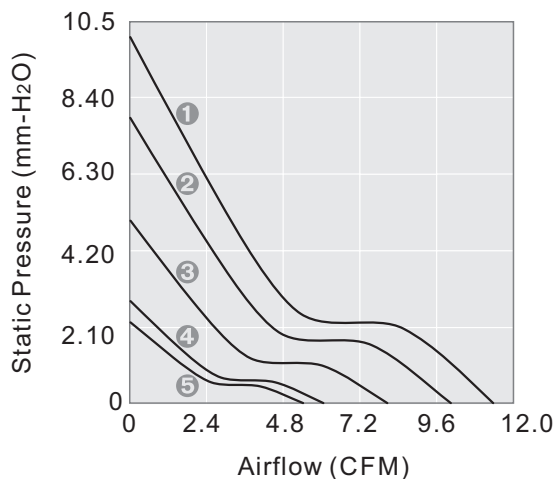
Bearing System Available

2B L S

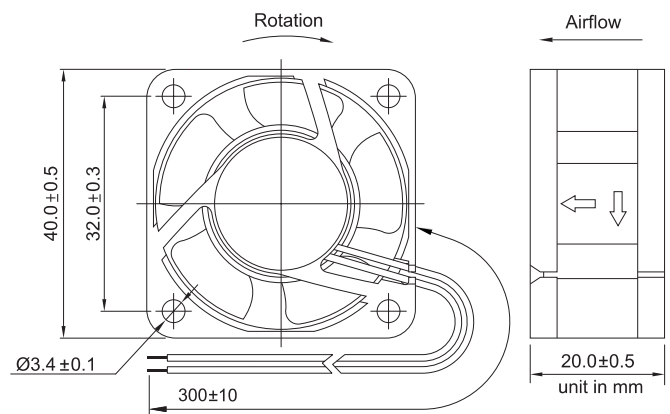
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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40x40x28mm

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

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

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

Voltage Available

05 12 24 48

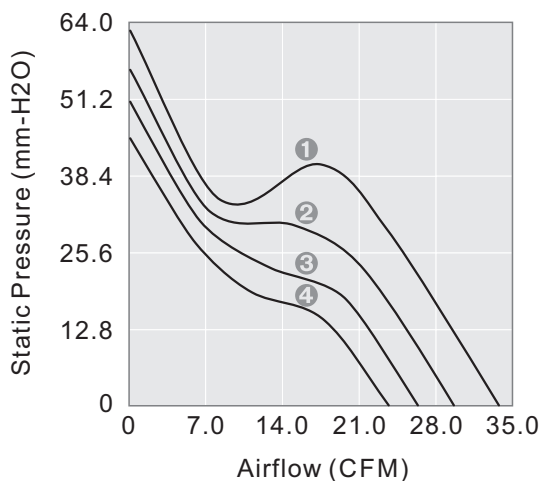
Bearing System Available

2B L S

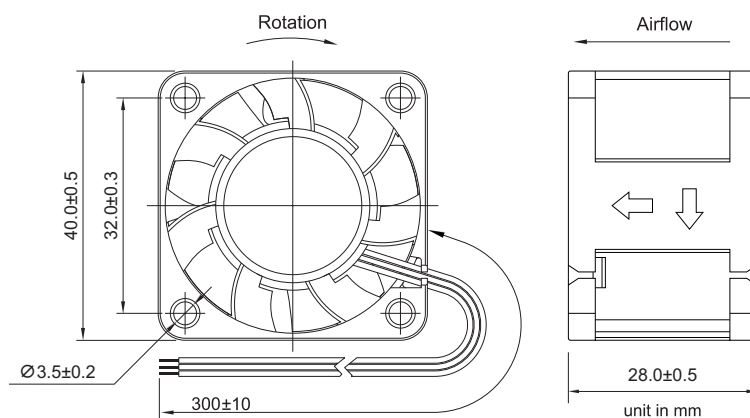
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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45x45x10mm

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

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

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

Voltage Available

05 12 24 48

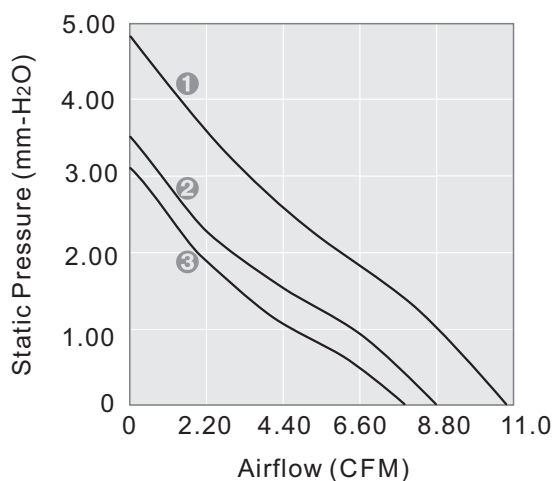
Bearing System Available

2B L S

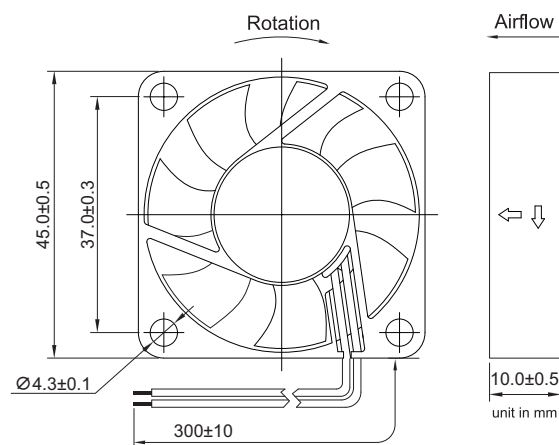
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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
FD055010LL-N	L	05	4.5~5.5	3500	8.3	1.0	85	0.43	50000	3	21.8
FD055010ML-N	L		4.5~5.5	4500	10.9	2.0	140	0.70	50000	2	27.3
FD055010HL-N	L		4.5~5.5	5500	13.5	3.2	240	1.20	50000	1	31.7
FD125010LB-N	2B	12	7~13.2	3500	8.3	1.0	60	0.72	80000	3	21.8
FD125010MB-N	2B		7~13.2	4500	10.9	2.0	90	1.08	80000	2	27.3
FD125010HB-N	2B		7~13.2	5500	13.5	3.2	125	1.50	75000	1	31.7
FD125010LL-N	L	12	7~13.2	3500	8.3	1.0	60	0.72	50000	3	21.8
FD125010ML-N	L		7~13.2	4500	10.9	2.0	100	1.20	50000	2	27.3
FD125010HL-N	L		7~13.2	5500	13.5	3.2	180	2.16	50000	1	31.7
FD125010LS-N	S	12	7~13.2	3500	8.3	1.0	60	0.72	30000	3	21.8
FD125010MS-N	S		7~13.2	4500	10.9	2.0	90	1.08	30000	2	27.3
FD125010HS-N	S		7~13.2	5500	13.5	3.2	125	1.50	25000	1	31.7

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

Voltage Available

05 12 24 48

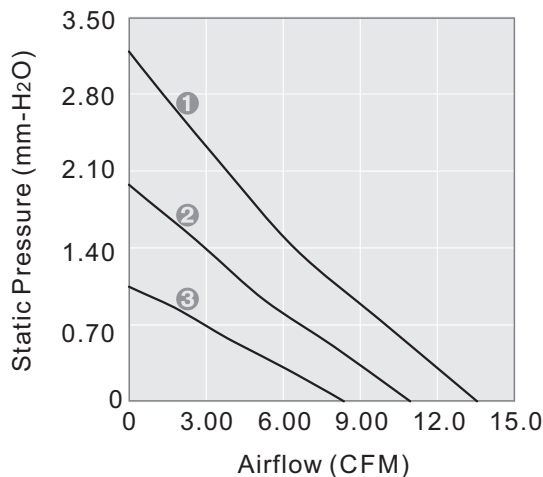
Bearing System Available

2B L S

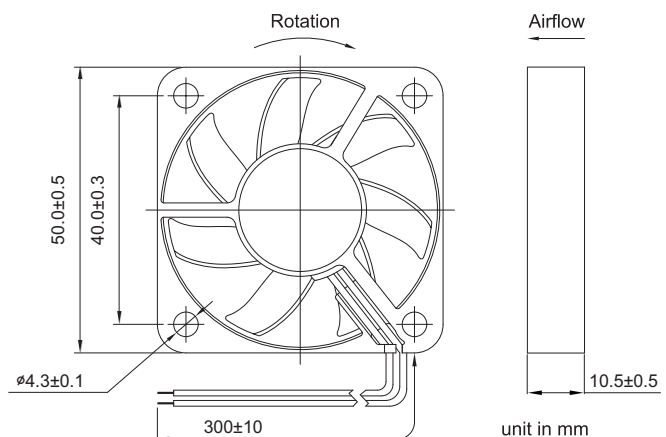
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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50x50x15mm

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

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

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

Voltage Available

05 12 24 48

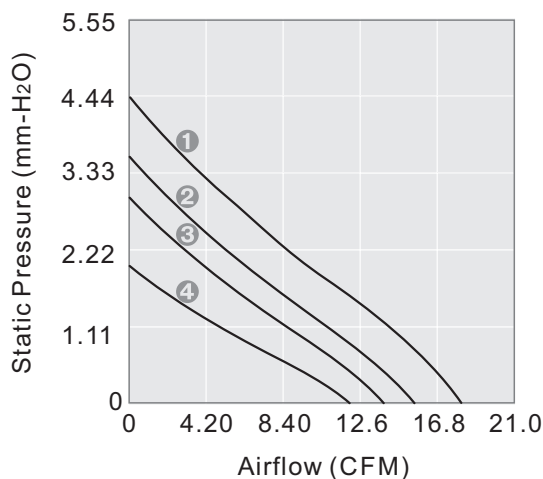
Bearing System Available

2B L S

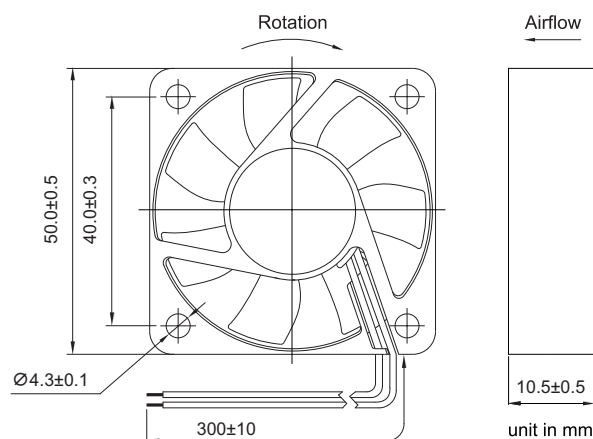
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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50x50x15mm

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

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

Voltage Available

05 12 24 48

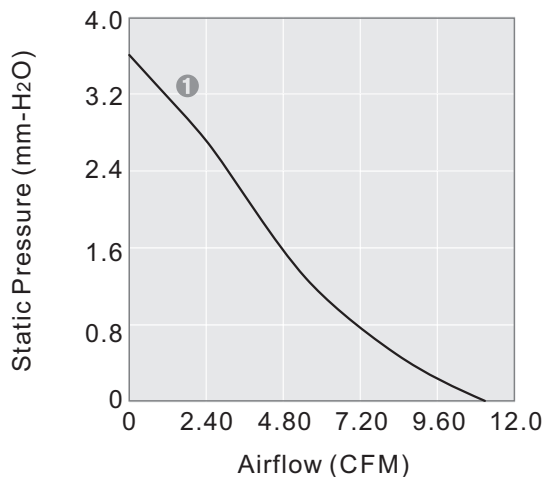
Bearing System Available

2B L S

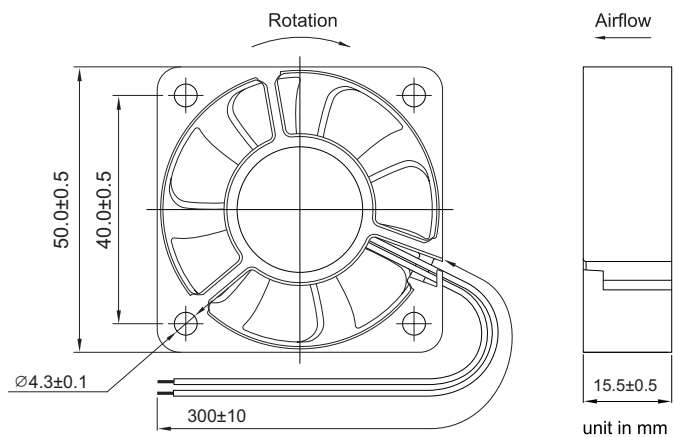
Function Available

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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50x50x20mm

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

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

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

Voltage Available

05 12 24 48

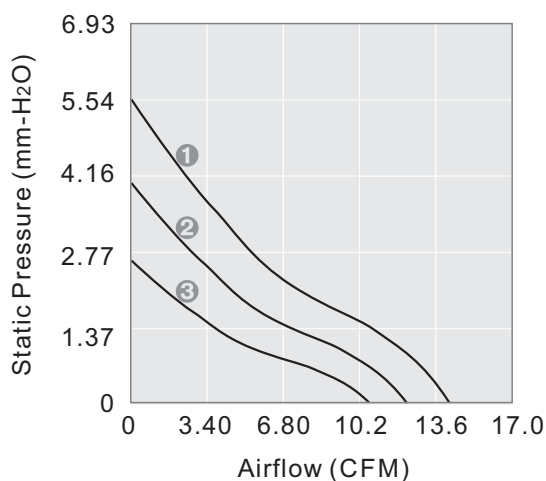
Bearing System Available

2B L S

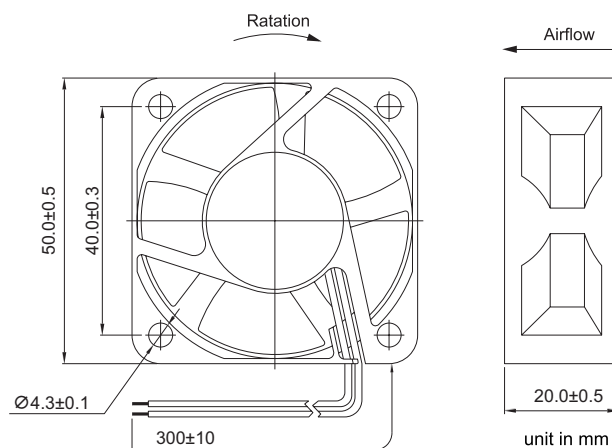
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x10mm

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

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

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

Voltage Available

05 12 24 48

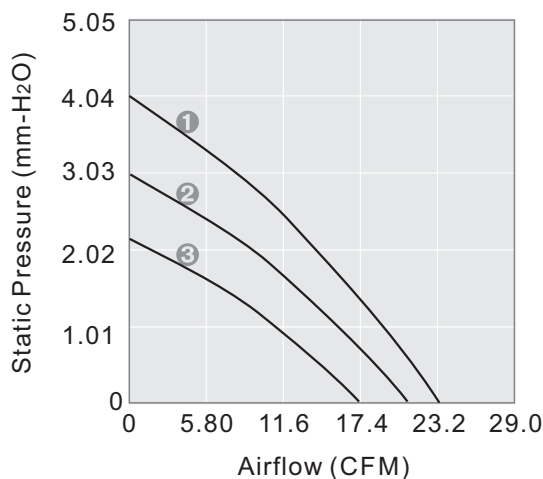
Bearing System Available

2B L S

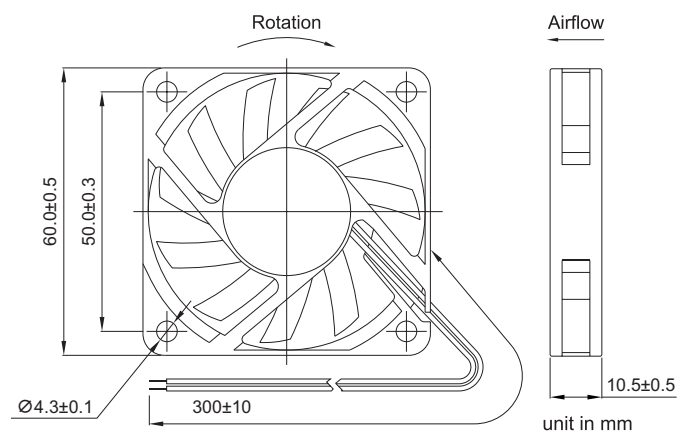
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x15mm

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

DC AXIAL FAN

DC BLOWER

XTREME SERIES

AC AXIAL FAN

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

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

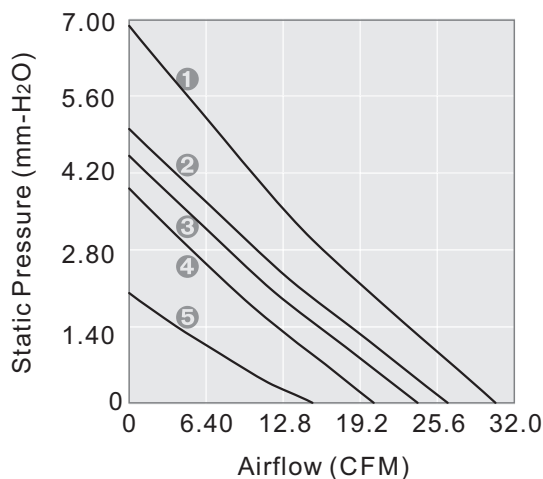
Voltage Available

Bearing System Available

05 12 24 48

2B L S

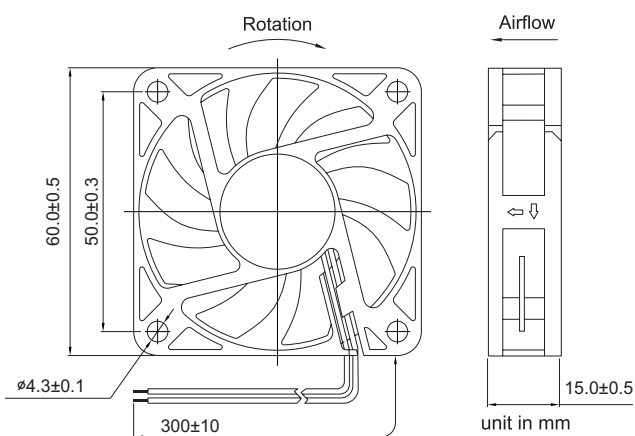
PERFORMANCE P-Q CURVE



Function Available

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

OUTLINE DIMENSIONS

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60x60x15mm

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

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD056015LL-N	L	05	4~5.5	3300	14.1	2.0	130	0.65	50000	5	22.0
FD056015ML-N	L		4~5.5	4100	18.0	3.0	200	1.00	50000	4	28.4
FD056015HL-N	L		4~5.5	4800	20.9	3.9	360	1.80	50000	3	33.0
FD126015LB-N	2B	12	7~13.2	3300	14.1	2.0	55	0.66	80000	5	22.0
FD126015MB-N	2B		7~13.2	4100	18.0	3.0	100	1.20	80000	4	28.4
FD126015HB-N	2B		7~13.2	4800	20.9	3.9	130	1.56	75000	3	33.0
FD126015EB-N	2B		7~13.2	5300	23.5	5.0	150	1.80	65000	2	35.0
FD126015EB-N	2B		7~13.2	6100	27.0	6.5	230	2.76	65000	1	38.0
FD126015LL-N	L		7~13.2	3300	14.1	2.0	70	0.84	50000	5	22.0
FD126015ML-N	L		7~13.2	4100	18.0	3.0	100	1.20	50000	4	28.4
FD126015HL-N	L		7~13.2	4800	20.9	3.9	130	1.56	50000	3	33.0
FD126015EL-N	L		7~13.2	5300	23.5	5.0	150	1.80	50000	2	35.0
FD246015EL-N	L	24	7~13.2	6100	27.0	6.5	260	3.12	50000	1	38.0
FD246015LB-N	2B		12~26.4	3300	14.1	2.0	25	0.60	80000	5	22.0
FD246015MB-N	2B		12~26.4	4100	18.0	3.0	40	0.96	80000	4	28.4
FD246015HB-N	2B		12~26.4	4800	20.9	3.9	55	1.32	75000	3	33.0
FD246015EB-N	2B		12~26.4	5300	23.5	5.0	70	1.68	65000	2	35.0
FD246015LL-N	L		12~26.4	3300	14.1	2.0	25	0.60	50000	5	22.0
FD246015ML-N	L		12~26.4	4100	18.0	3.0	40	0.96	50000	4	28.4
FD246015HL-N	L		12~26.4	4800	20.9	3.9	55	1.32	50000	3	33.0
FD246015EL-N	L		12~26.4	5300	23.5	5.0	70	1.68	50000	2	35.0

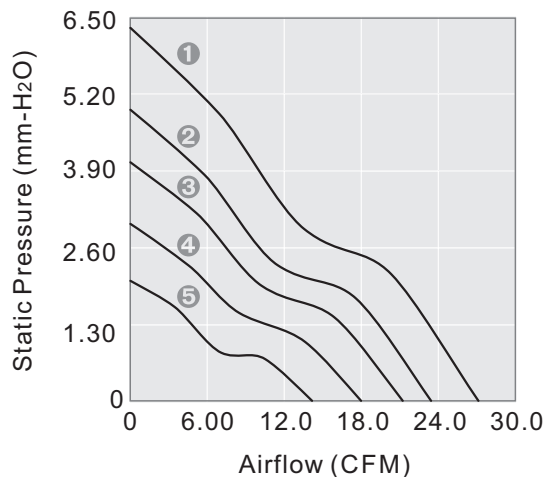
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available Bearing System Available

05 12 24 48

2B L S

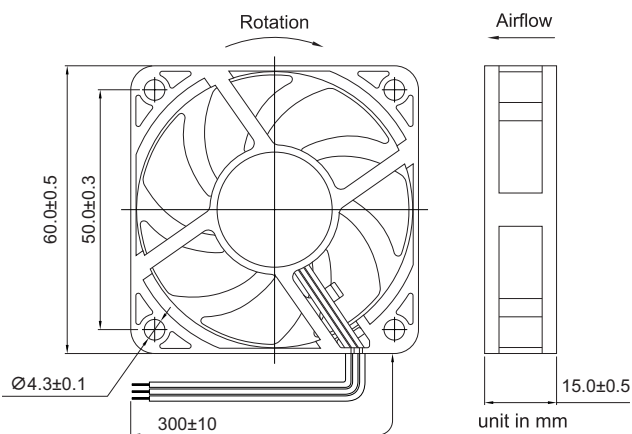
PERFORMANCE P-Q CURVE



Function Available

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

OUTLINE DIMENSIONS



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

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60x60x20mm

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

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

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

Voltage Available

05 12 24 48

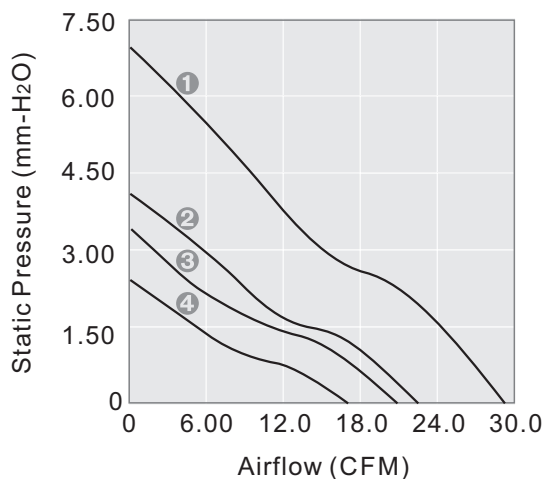
Bearing System Available

2B L S

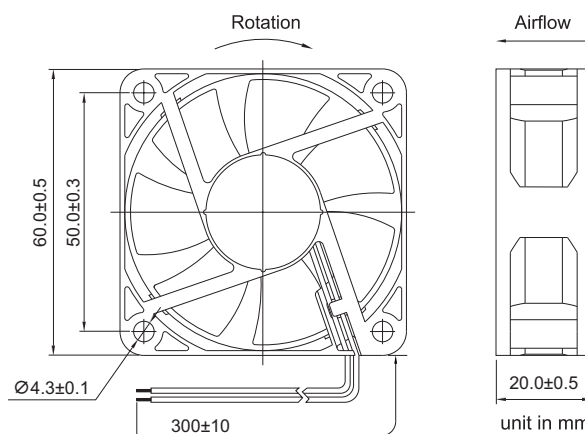
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x25mm

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

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

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

Voltage Available

05 12 24 48

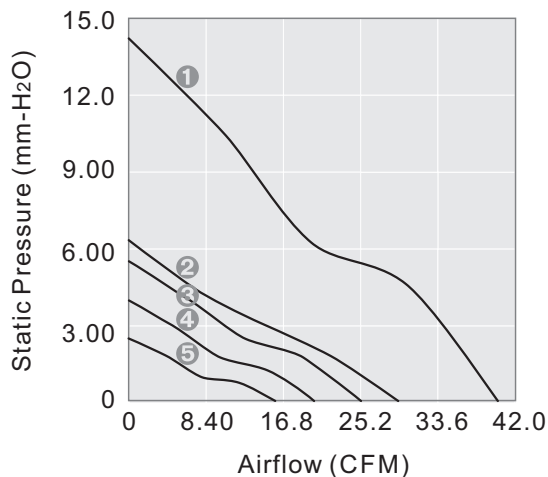
Bearing System Available

2B L S

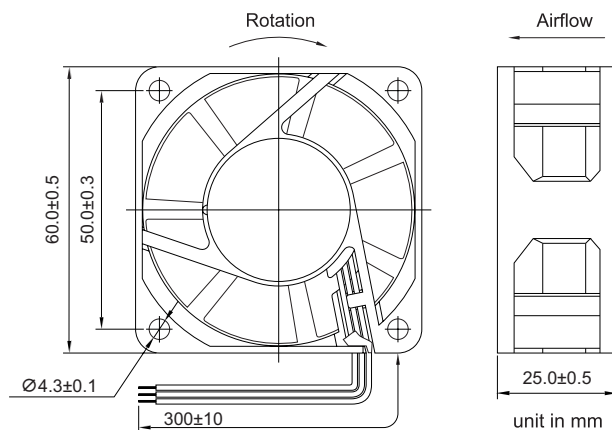
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x25mm

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

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

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

Voltage Available

Bearing System Available

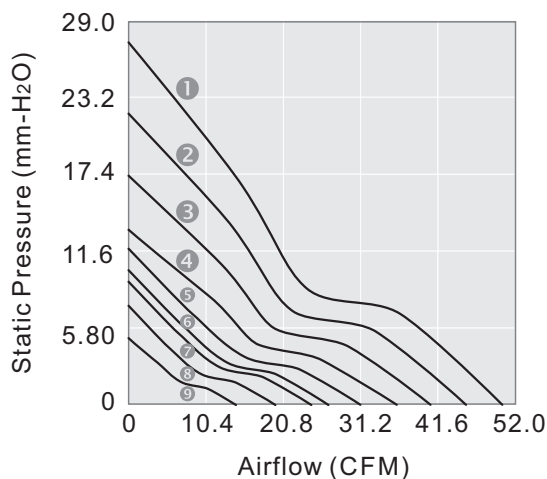
05 12 24 48

2B L S

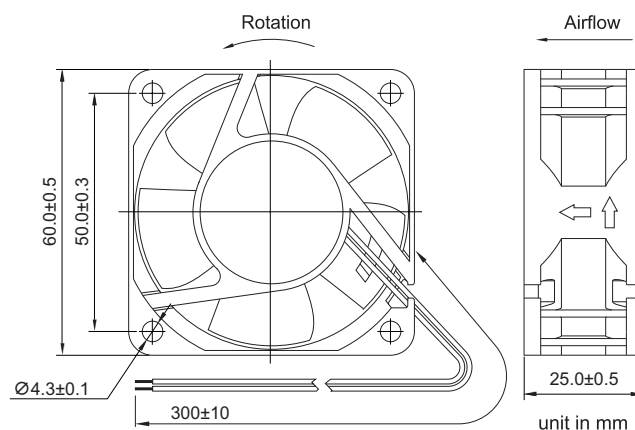
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x38mm

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

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

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

Voltage Available

05 12 24 48

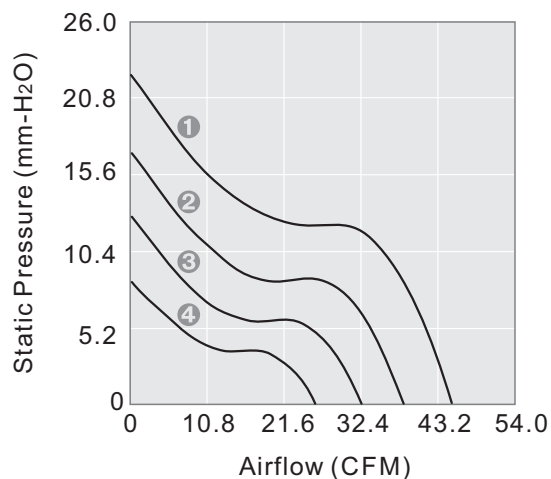
Bearing System Available

2B L S

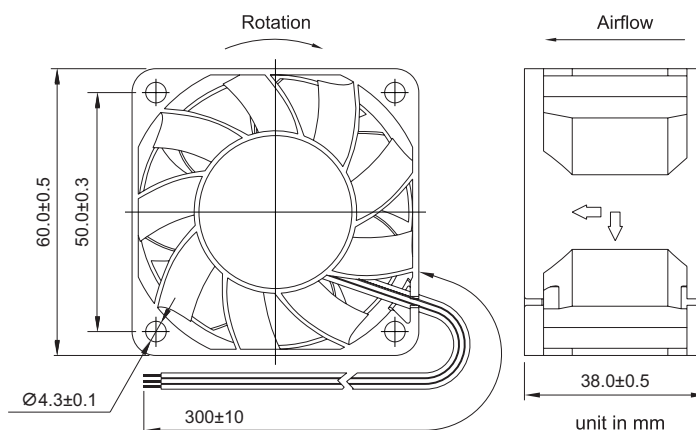
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x15mm

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

DC AXIAL FAN

DC BLOWER

XTREME SERIES

AC AXIAL FAN

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

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

Voltage Available

05 12 24 48

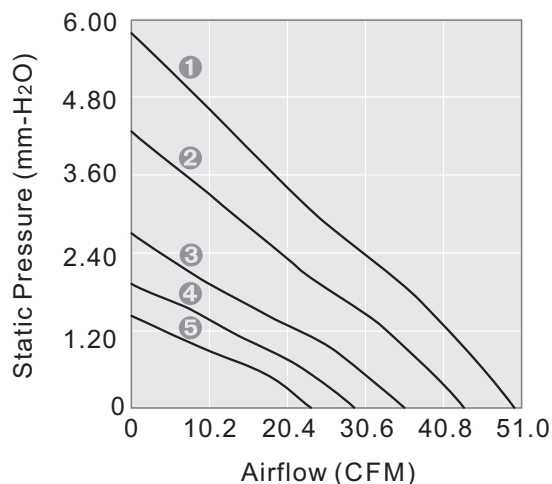
Bearing System Available

2B L S

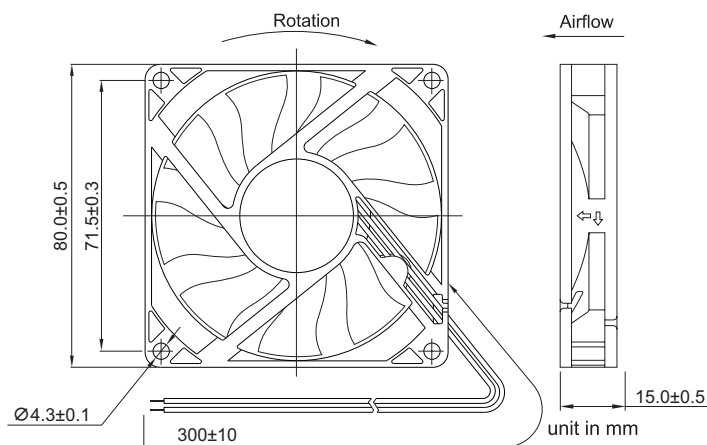
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x20mm

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

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

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

Voltage Available

05 12 24 48

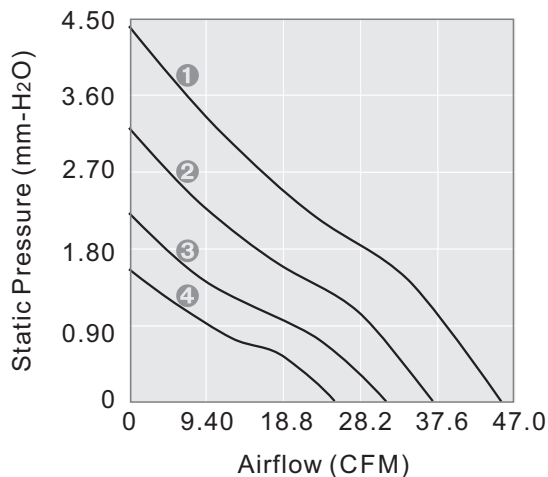
Bearing System Available

2B L S

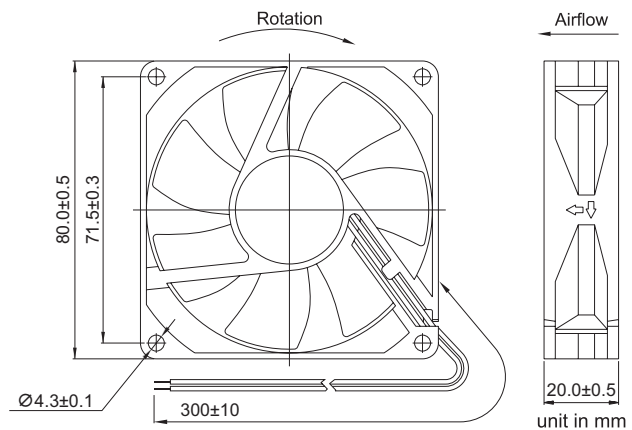
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x25mm

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

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

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

Voltage Available

Bearing System Available

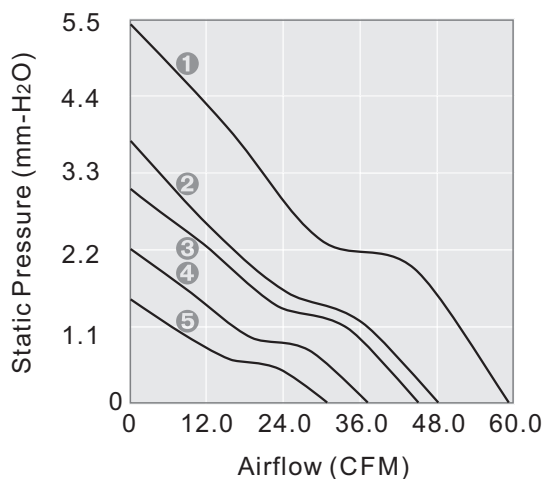
05 12 24 48

2B L S

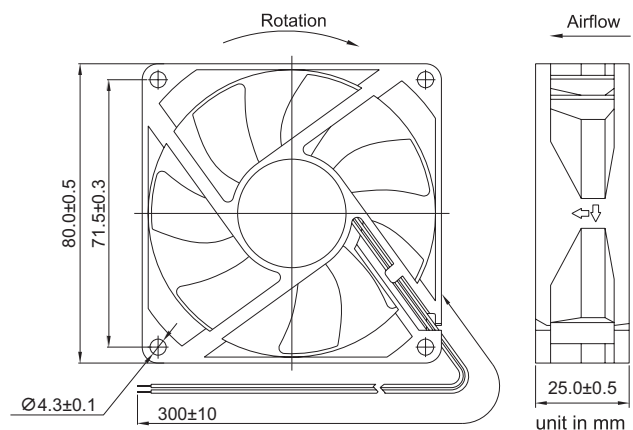
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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-H ₂ O	mA	W	Hour		dB(A)
FD128025LB-E	2B	12	7~13.2	2000	31.4	2.0	100	1.20	80000	5	26.6
FD128025MB-E	2B		7~13.2	2300	36.2	2.6	130	1.56	80000	4	29.6
FD128025HB-E	2B		7~13.2	2700	42.3	3.5	190	2.28	75000	3	33.1
FD128025EB-E	2B		7~13.2	3100	48.4	4.6	280	3.36	65000	2	36.1
FD128025EB-E	2B		7~13.2	3500	54.5	5.9	300	3.60	65000	1	38.7
FD248025LB-E	2B	24	12~26.4	2000	31.4	2.0	55	1.32	80000	5	26.6
FD248025MB-E	2B		12~26.4	2300	36.2	2.6	70	1.68	80000	4	29.6
FD248025HB-E	2B		12~26.4	2700	42.3	3.5	90	2.16	75000	3	33.1
FD248025EB-E	2B		12~26.4	3100	48.4	4.6	130	3.12	65000	2	36.1
FD248025EB-E	2B		12~26.4	3500	54.5	5.9	140	3.36	65000	1	38.7
FD488025LB-E	2B	48	24~56.0	2000	31.4	2.0	40	1.92	80000	5	26.6
FD488025MB-E	2B		24~56.0	2300	36.2	2.6	50	2.40	80000	4	29.6
FD488025HB-E	2B		24~56.0	2700	42.3	3.5	70	3.36	75000	3	33.1
FD488025EB-E	2B		24~56.0	3100	48.4	4.6	90	4.32	65000	2	36.1
FD488025EB-E	2B		24~56.0	3500	54.5	5.9	110	5.28	65000	1	38.7

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

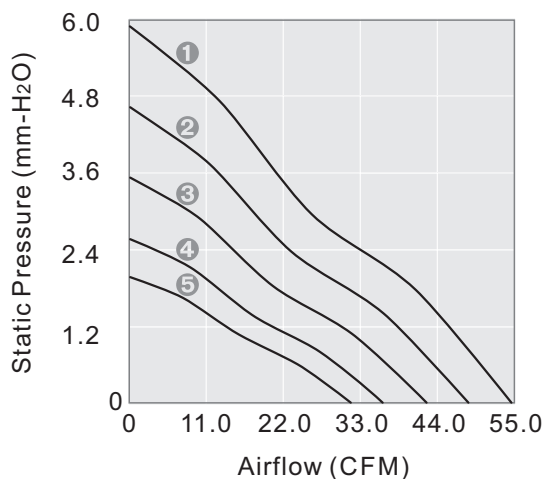
Voltage Available

05 12 24 48

Bearing System Available

2B L S

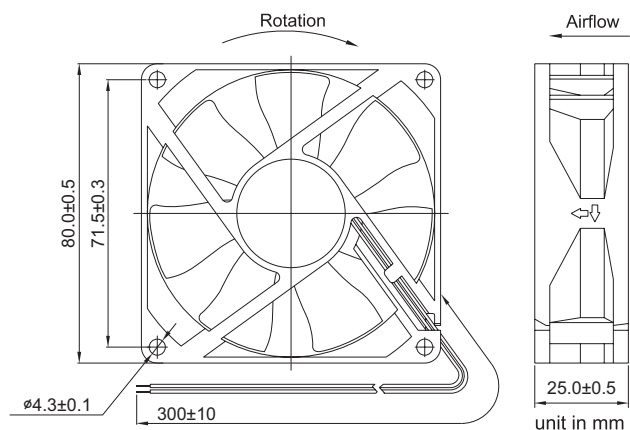
PERFORMANCE P-Q CURVE



Function Available

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

OUTLINE DIMENSIONS



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80x80x25mm

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

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

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

Voltage Available

05 12 24 48

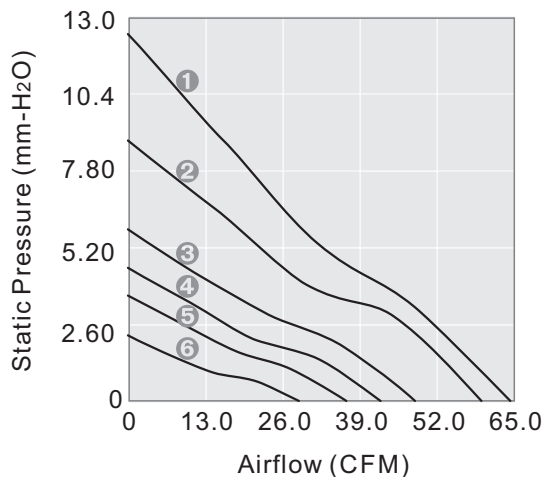
Bearing System Available

2B L S

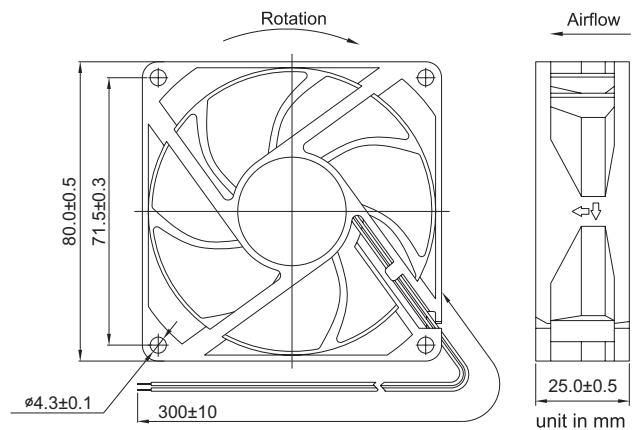
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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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-H ₂ O	mA	W	Hour		dB(A)
FD128025LB-H	2B	12	7~13.2	3800	47.4	6.8	180	2.16	80000	5	39.5
FD128025MB-H	2B		7~13.2	4400	55.7	9.0	260	3.12	80000	4	43.5
FD128025HB-H	2B		7~13.2	5000	62.3	11.3	330	3.96	75000	3	46.7
FD128025EB-H	2B		7~13.2	5600	70.0	14.2	480	5.76	65000	2	50.0
FD128025EB-H	2B		7~13.2	6200	80.0	17.2	600	7.20	65000	1	53.5
FD248025LB-H	2B	24	12~26.4	3800	47.4	6.8	100	2.40	80000	5	39.5
FD248025MB-H	2B		12~26.4	4400	55.7	9.0	130	3.12	80000	4	43.5
FD248025HB-H	2B		12~26.4	5000	62.3	11.3	180	4.32	75000	3	46.7
FD248025EB-H	2B		12~26.4	5600	70.0	14.2	220	5.28	65000	2	50.0
FD248025EB-H	2B		12~26.4	6200	80.0	17.2	330	7.92	65000	1	53.5
FD488025LB-H	2B	48	24~56.0	3800	47.4	6.8	65	3.12	80000	5	39.5
FD488025MB-H	2B		24~56.0	4400	55.7	9.0	85	4.08	80000	4	43.5
FD488025HB-H	2B		24~56.0	5000	62.3	11.3	100	4.80	75000	3	46.7
FD488025EB-H	2B		24~56.0	5600	70.0	14.2	130	6.24	65000	2	50.0
FD488025EB-H	2B		24~56.0	6200	80.0	17.2	160	7.68	65000	1	53.5

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

Voltage Available

05 12 24 48

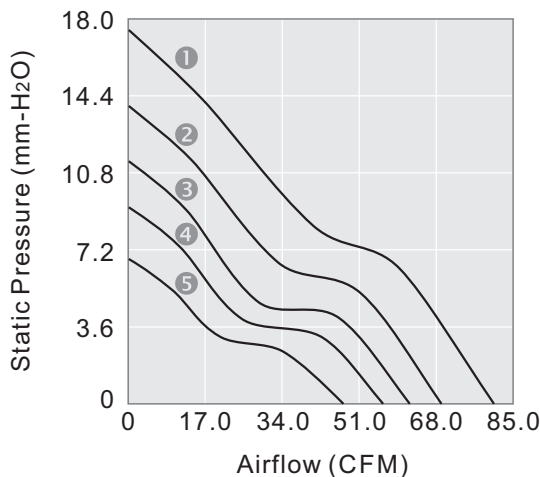
Bearing System Available

2B L S

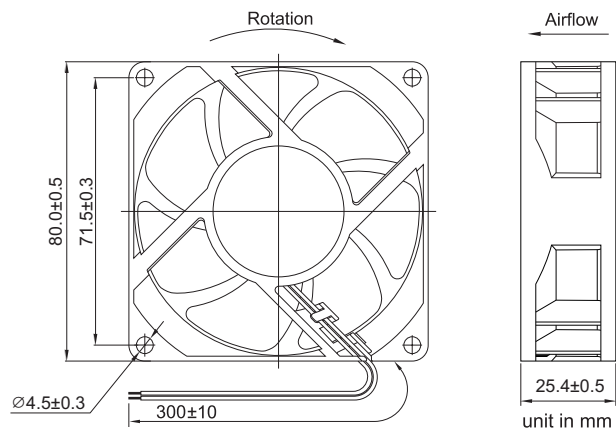
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x32mm

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

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

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

Voltage Available

05 12 24 48

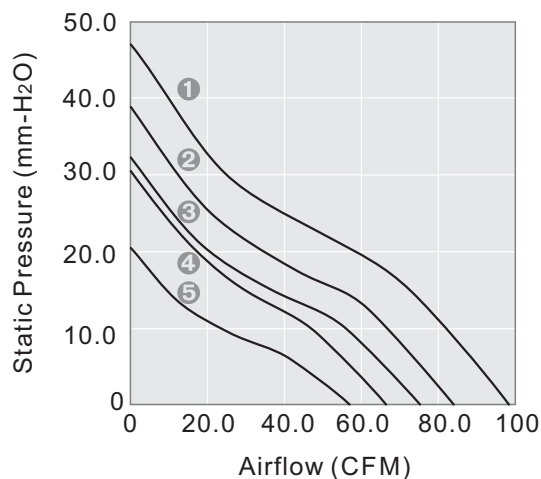
Bearing System Available

2B L S

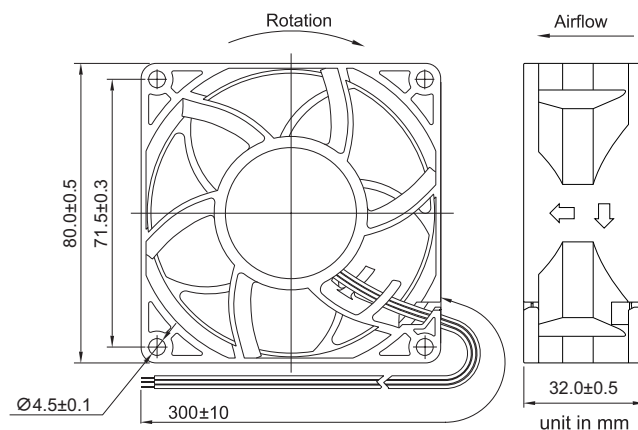
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x38mm

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

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

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

Voltage Available

05 12 24 48

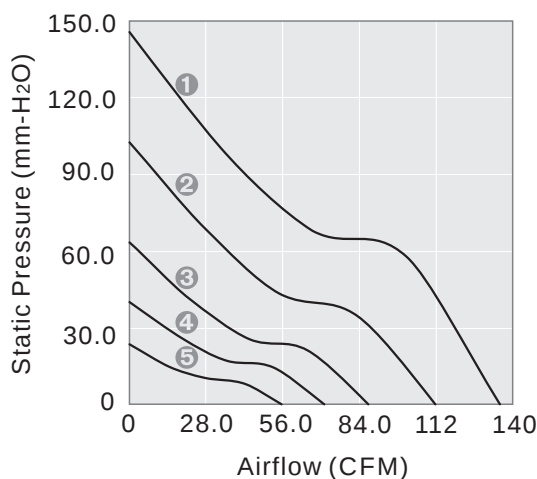
Bearing System Available

2B L S

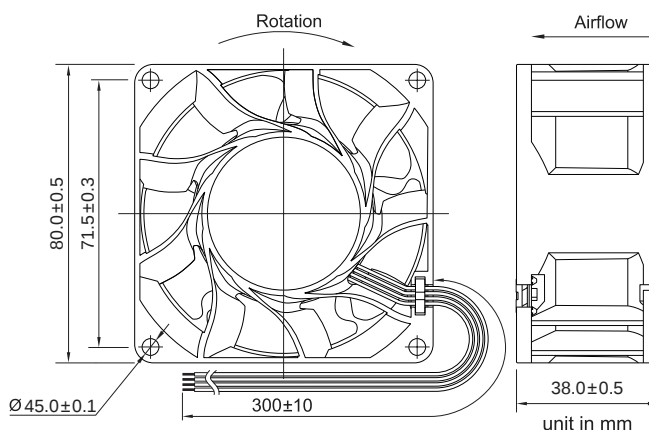
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25mm

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

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

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

Voltage Available

Bearing System Available

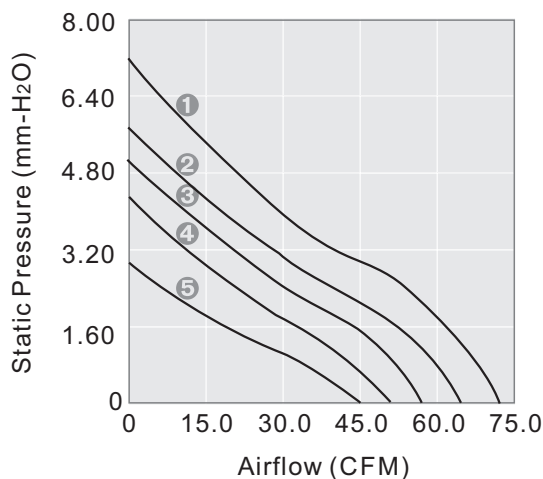
05 12 24 48

2B L S

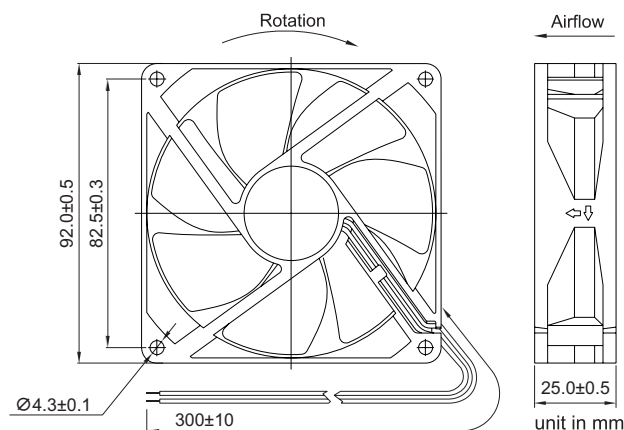
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25mm

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

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

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

Voltage Available

05 12 24 48

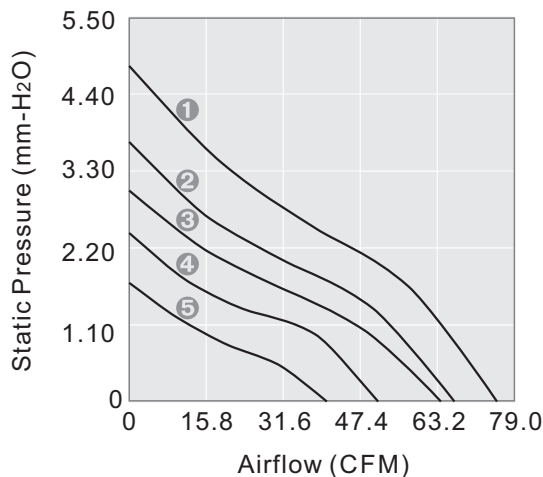
Bearing System Available

2B L S

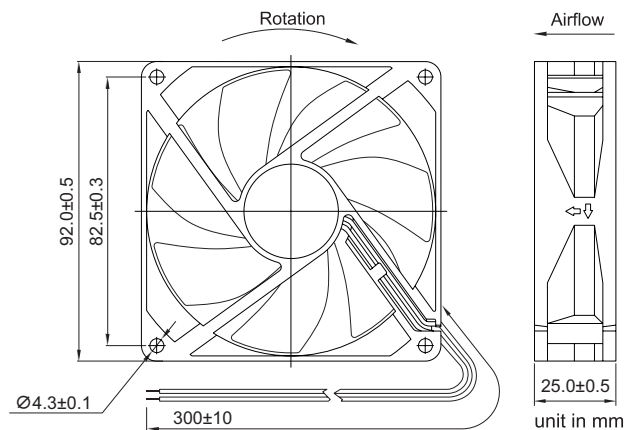
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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92x92x25mm

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

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

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

Voltage Available

05 12 24 48

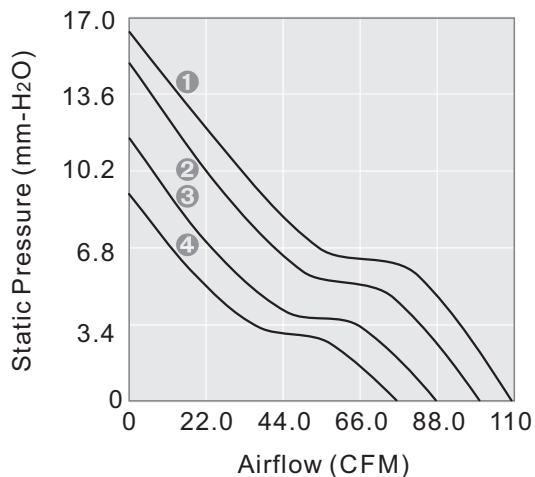
Bearing System Available

2B L S

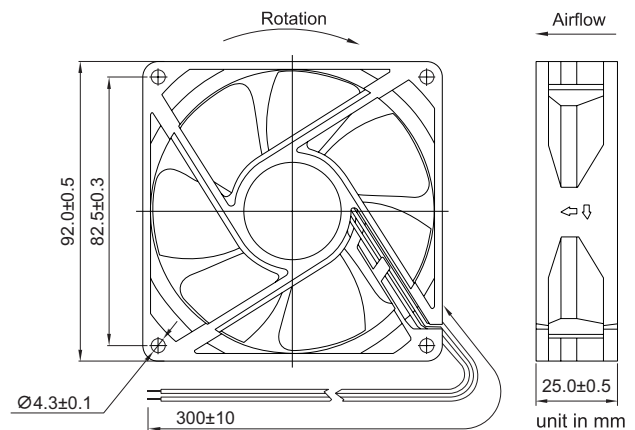
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25mm

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

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
FD129225L B-Q	2B	VDC	VDC	RPM	CFM	mm-H ₂ O	mA	W	Hour		dB(A)
FD129225MB-Q	2B	12	7~13.2	2000	25.9	2.1	35	0.42	80000	6	16.7
FD129225HB-Q	2B		7~13.2	3000	39.6	4.6	85	1.02	80000	5	28.2
FD129225EB-Q	2B		7~13.2	4000	50.3	6.9	145	1.74	75000	4	35.0
FD129225UB-Q	2B		7~13.2	5000	64.8	10.3	300	3.60	65000	3	41.3
FD129225SB-Q	2B		7~13.2	6000	78.3	15.7	490	5.88	65000	2	46.5
FD249225L B-Q	2B	24	12~26.4	2000	25.9	2.1	45	1.08	80000	6	16.7
FD249225MB-Q	2B		12~26.4	3000	39.6	4.6	70	1.68	80000	5	28.2
FD249225HB-Q	2B		12~26.4	4000	50.3	6.9	100	2.40	75000	4	35.0
FD249225EB-Q	2B		12~26.4	5000	64.8	10.3	160	3.84	65000	3	41.3
FD249225UB-Q	2B		12~26.4	6000	78.3	15.7	230	5.52	65000	2	46.5
FD489225L B-Q	2B	48	24~56.0	2000	25.9	2.1	35	1.68	80000	6	16.7
FD489225MB-Q	2B		24~56.0	3000	39.6	4.6	45	2.16	80000	5	28.2
FD489225HB-Q	2B		24~56.0	4000	50.3	6.9	70	3.36	75000	4	35.0
FD489225EB-Q	2B		24~56.0	5000	64.8	10.3	90	4.32	65000	3	41.3
FD489225UB-Q	2B		24~56.0	6000	78.3	15.7	130	6.24	65000	2	46.5
FD489225SB-Q	2B		24~56.0	7000	92.5	20.7	180	8.64	60000	1	50.3

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

Voltage Available

05 12 24 48

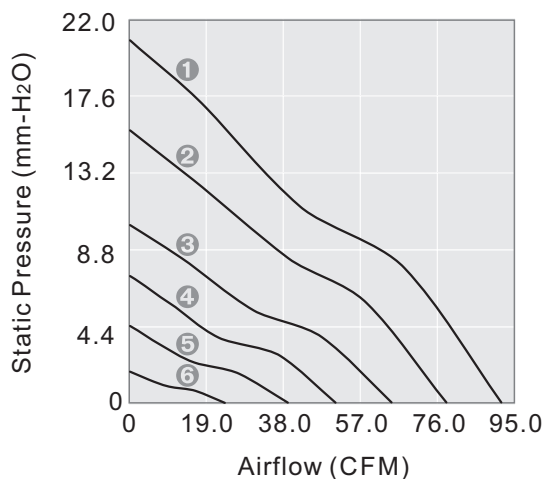
Bearing System Available

2B L S

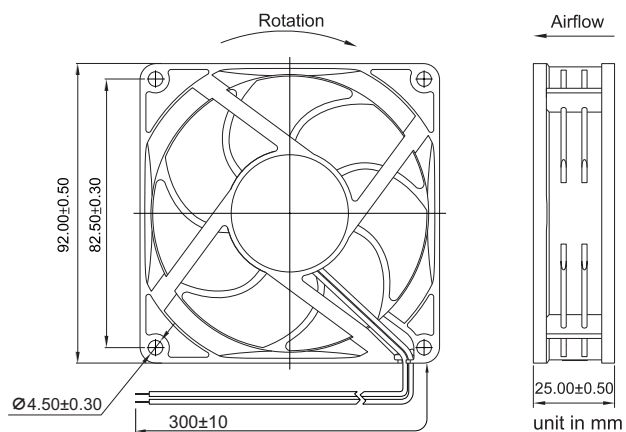
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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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-H ₂ O	mA	W	Hour		dB(A)
FD129238LB-E	2B	12	7~14.0	4000	56.6	13.2	270	3.24	80000	5	39.5
FD129238MB-E	2B		7~14.0	6000	84.6	29.1	600	7.20	80000	4	51.5
FD129238HB-E	2B		7~14.0	8000	113.6	48.9	1100	13.20	75000	3	57.5
FD129238EB-E	2B		7~14.0	10500	150.9	66.9	2400	28.80	65000	2	65.0
FD129238UB-E	2B		7~14.0	12500	184.5	79.0	4400	52.80	65000	1	67.5
FD249238LB-E	2B	24	10~30.0	4000	56.6	13.2	180	4.32	80000	5	39.5
FD249238MB-E	2B		10~30.0	6000	84.6	29.1	320	7.68	80000	4	51.5
FD249238HB-E	2B		10~30.0	8000	113.6	48.9	540	12.96	75000	3	57.5
FD249238EB-E	2B		10~30.0	10500	150.9	66.9	1050	25.20	65000	2	65.0
FD249238UB-E	2B		10~30.0	13500	192.9	103.7	2200	52.80	65000	1	68.5
FD489238LB-E	2B	48	24~75.0	4000	56.6	13.2	80	3.84	80000	5	39.5
FD489238MB-E	2B		24~75.0	6000	84.6	29.1	180	8.64	80000	4	51.5
FD489238HB-E	2B		24~75.0	8000	113.6	48.9	280	13.44	75000	3	57.5
FD489238EB-E	2B		24~75.0	10500	150.9	66.9	540	25.92	65000	2	65.0
FD489238UB-E	2B		24~75.0	13500	192.9	103.7	1100	52.80	65000	1	68.5

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

Voltage Available

05 12 24 48

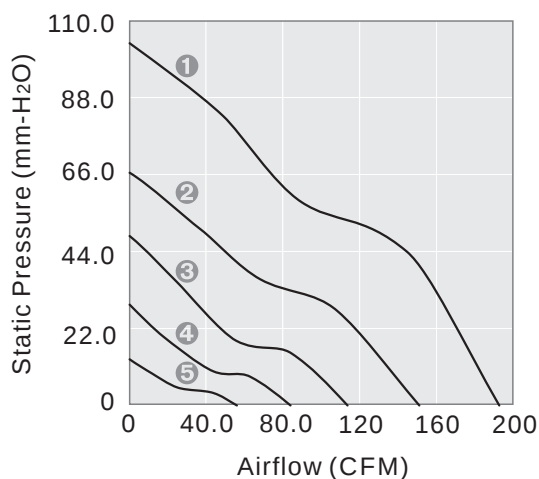
Bearing System Available

2B L S

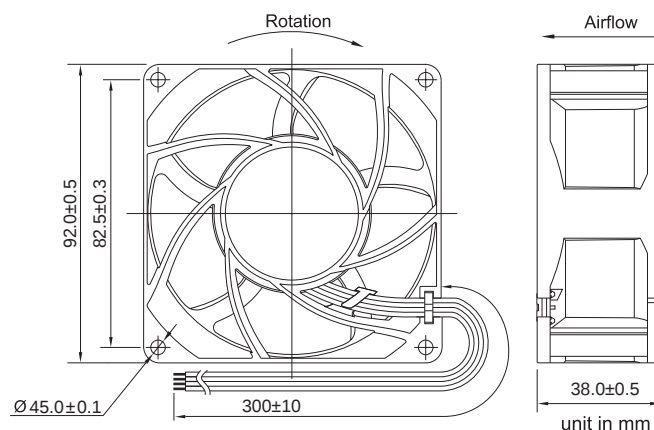
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x25mm

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

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

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

Voltage Available

05 12 24 48

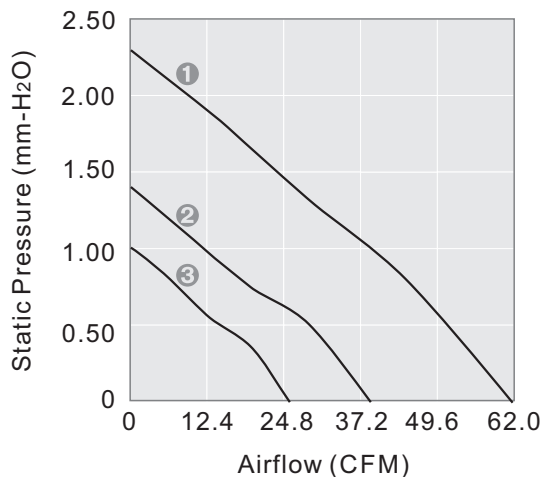
Bearing System Available

2B L S

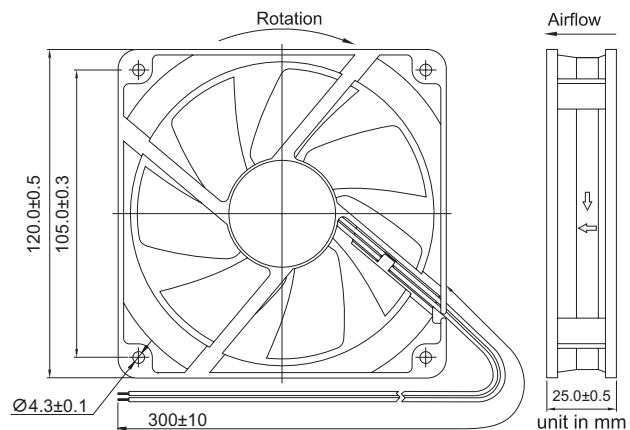
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x25mm

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

DC AXIAL FAN

DC BLOWER

XTREME SERIES

AC AXIAL FAN

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

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

Voltage Available

Bearing System Available

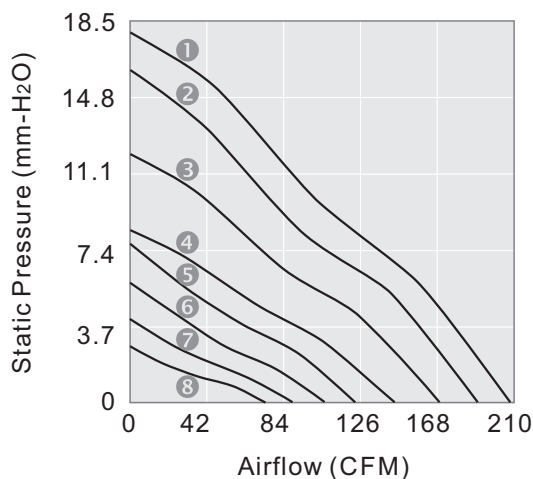
05 12 24 48

2B L S

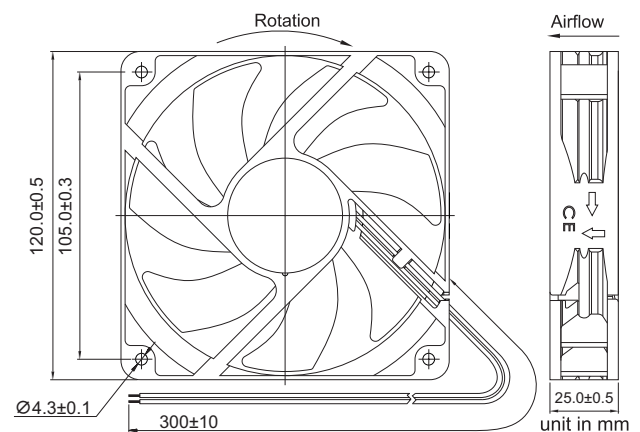
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS

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120x120x25mm

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

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

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

Voltage Available

05 12 24 48

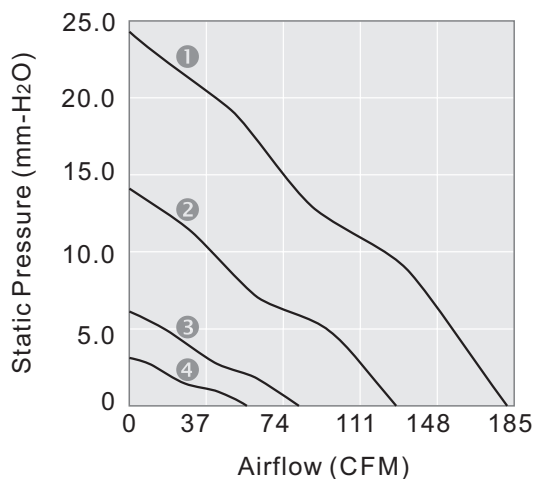
Bearing System Available

2B L S

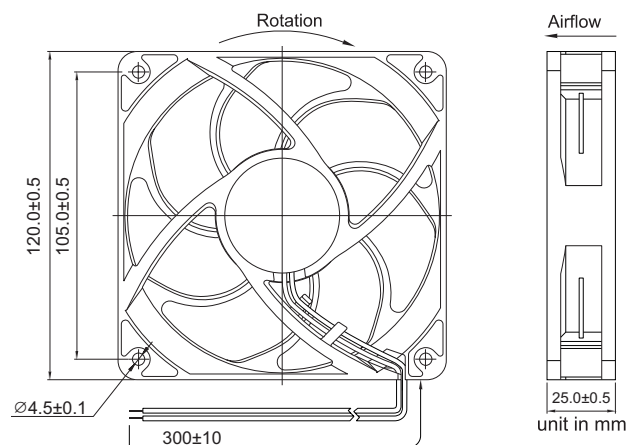
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x32mm

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

DC AXIAL FAN

DC BLOWER

XTREME SERIES

AC AXIAL FAN

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

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

Voltage Available

Bearing System Available

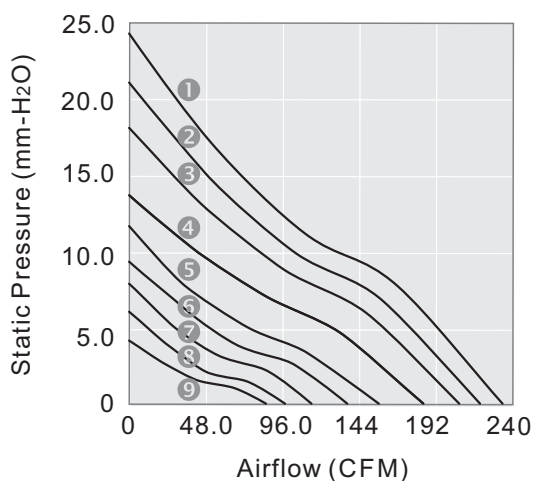
05 12 24 48

2B L S

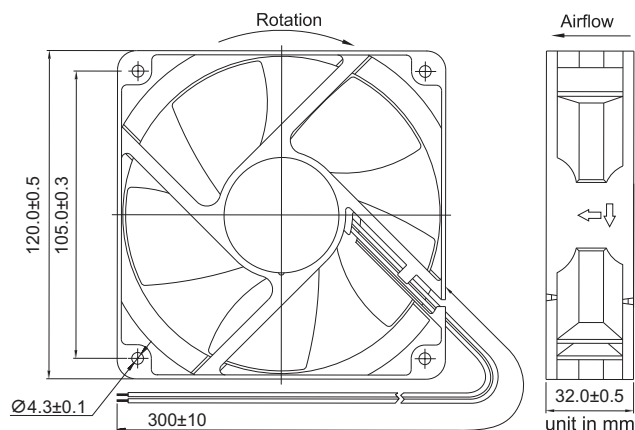
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS

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120x120x38mm

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

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

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

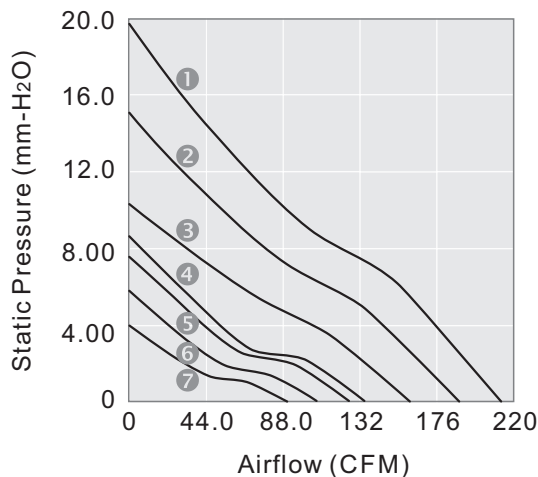
Voltage Available

Bearing System Available

05 12 24 48

2B L S

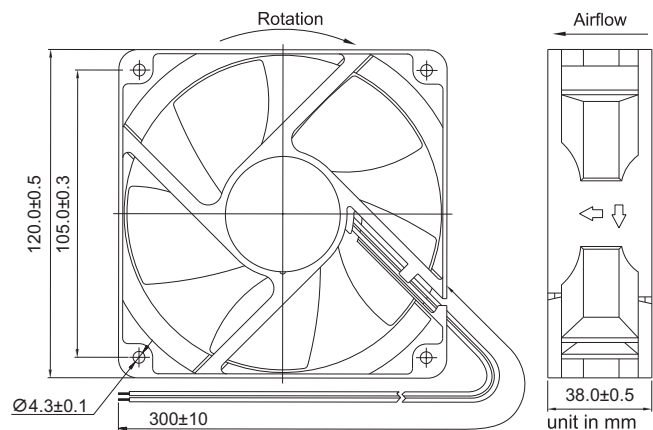
PERFORMANCE P-Q CURVE



Function Available

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

OUTLINE DIMENSIONS



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120x120x38mm

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

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

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

Voltage Available

05 12 24 48

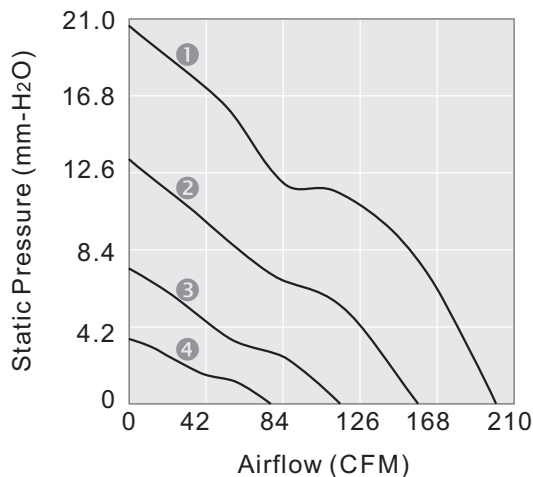
Bearing System Available

2B L S

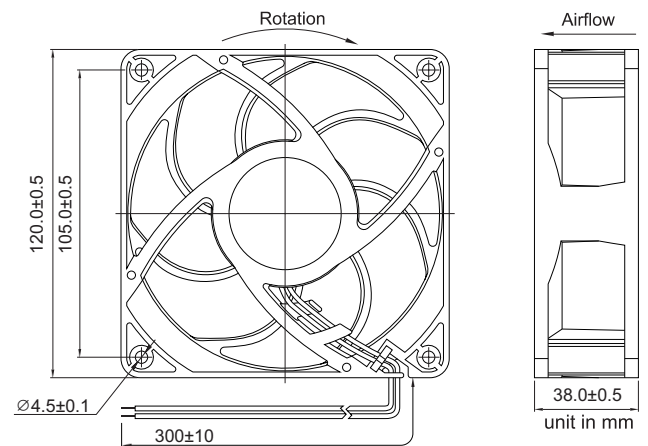
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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119x119x38.5mm

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

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

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

Voltage Available

05 12 24 48

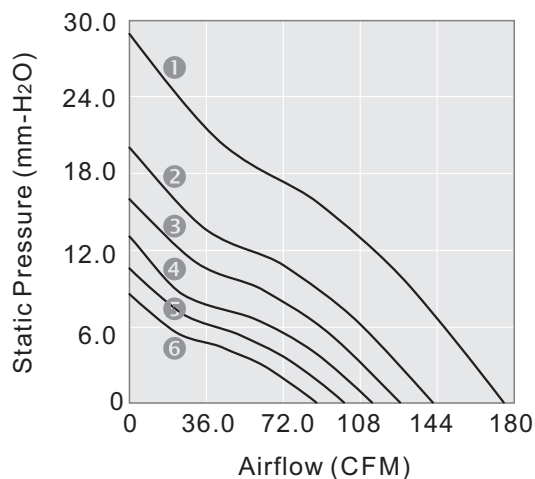
Bearing System Available

2B L S

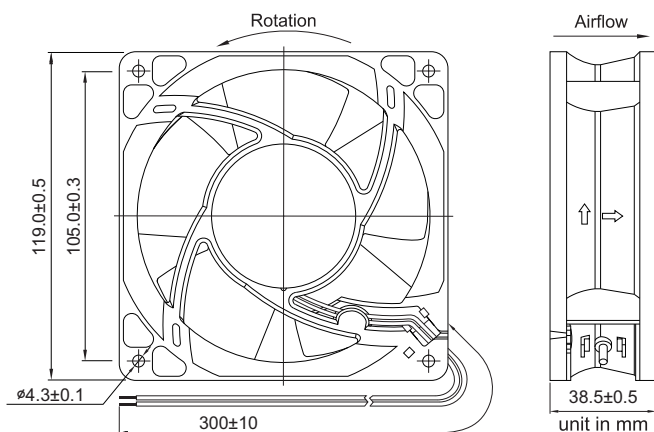
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x38mm

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

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

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

Voltage Available

05 12 24 48

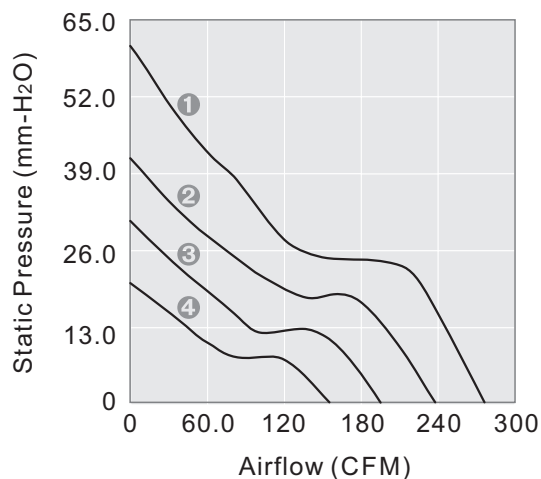
Bearing System Available

2B L S

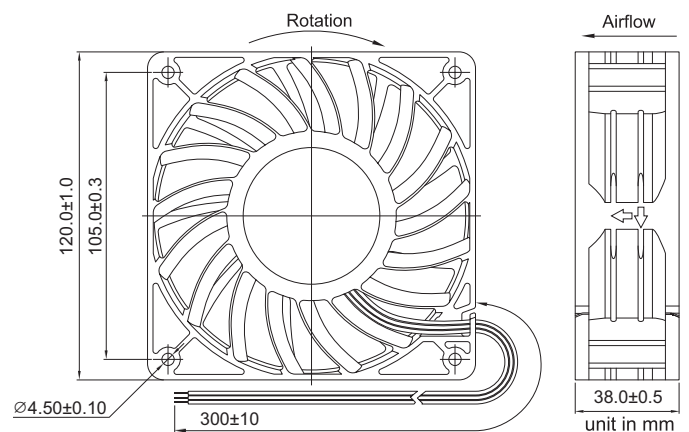
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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140x140x25mm

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

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

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

Voltage Available

05 12 24 48

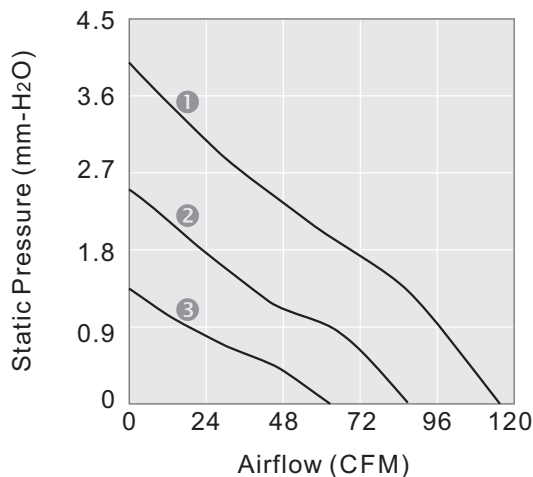
Bearing System Available

2B L S

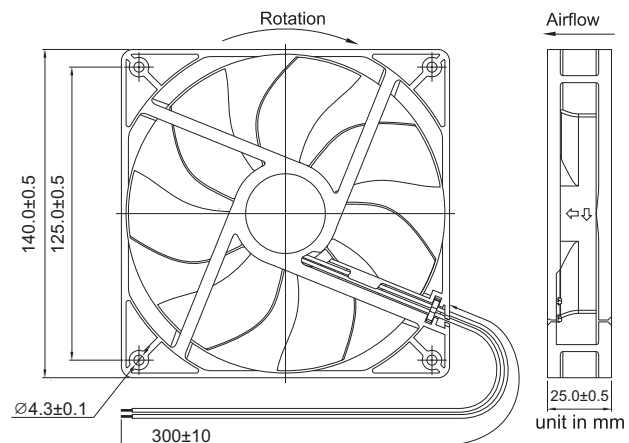
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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172x150x51mm

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

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

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

Voltage Available

05 12 24 48

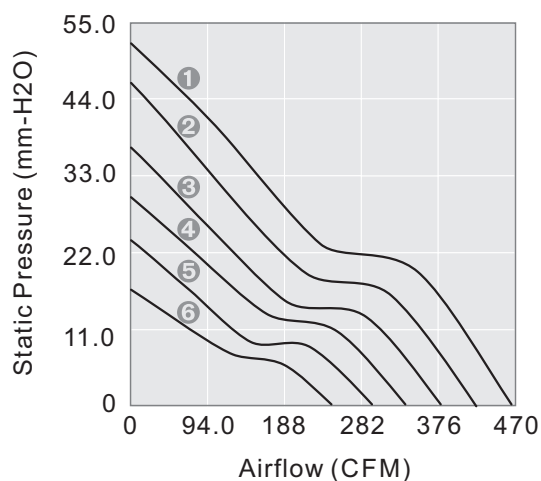
Bearing System Available

2B L S

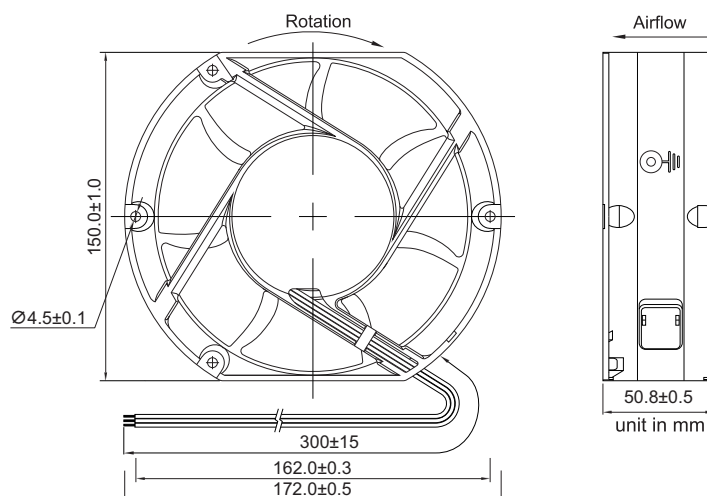
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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50x50x15mm

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

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

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

Voltage Available

05 12 24 48

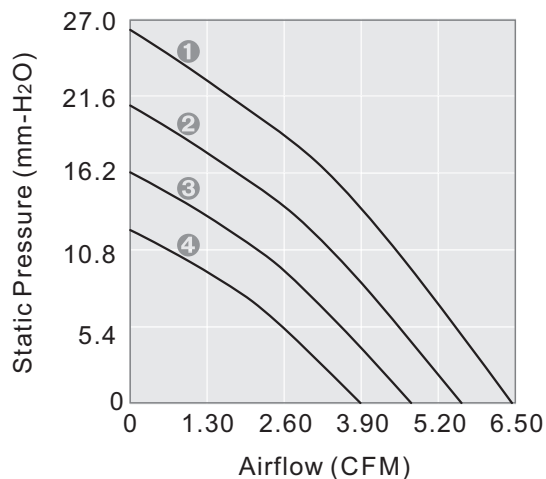
Bearing System Available

2B L S

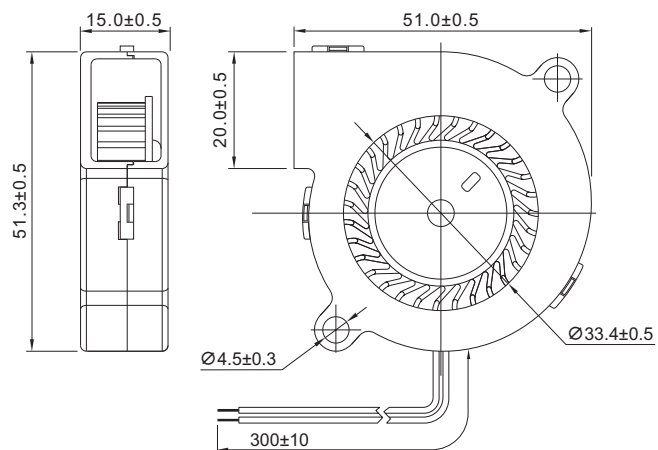
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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60x60x18mm

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

[illegible]

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

Voltage Available

05 12 24 48

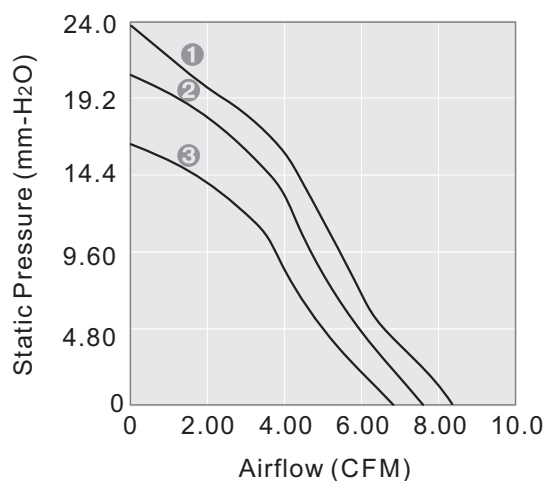
Bearing System Available

2B L S

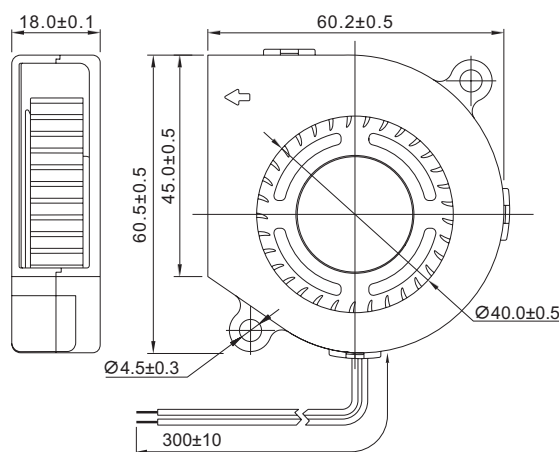
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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60x60x25mm

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

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

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

Voltage Available

05122448

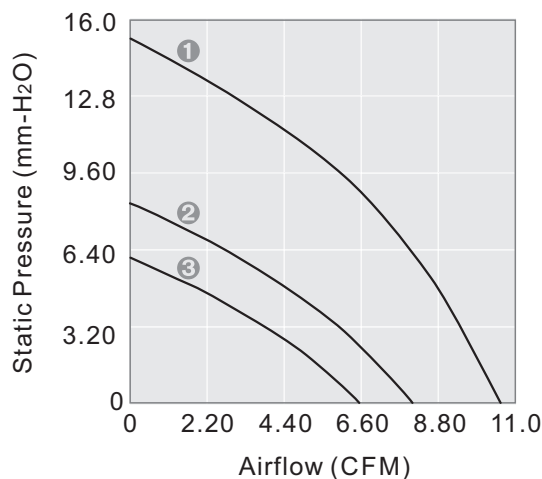
Bearing System Available

2B L S

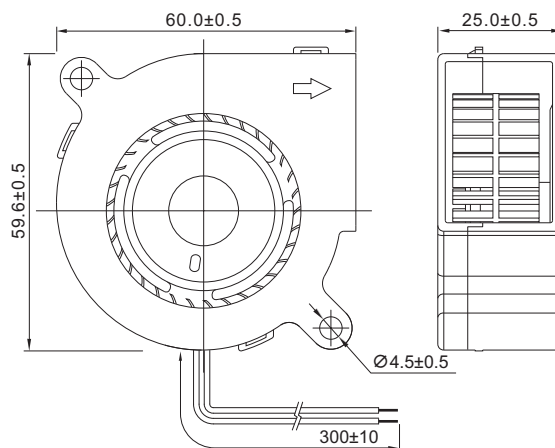
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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75x75x30mm

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

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

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

Voltage Available

05 12 24 48

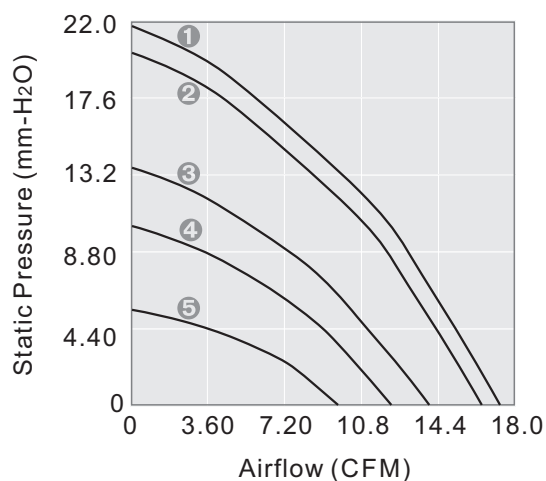
Bearing System Available

2B L S

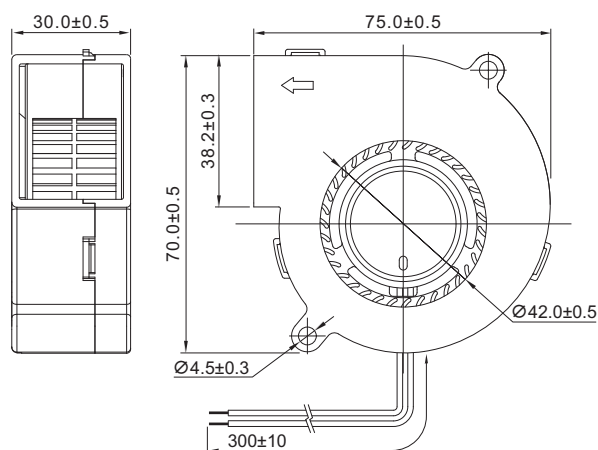
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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97x97x33mm

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

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

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

Voltage Available

05 12 24 48

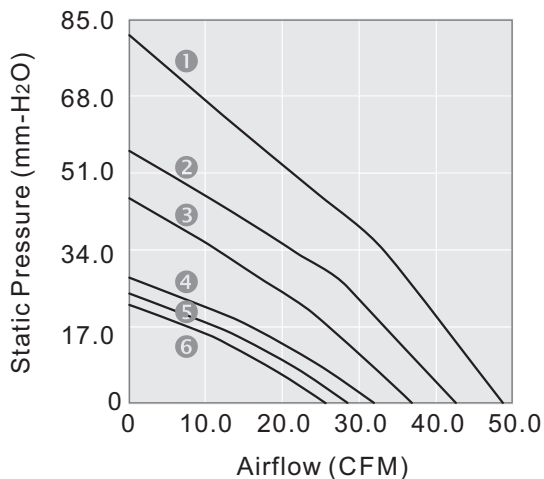
Bearing System Available

2B L S

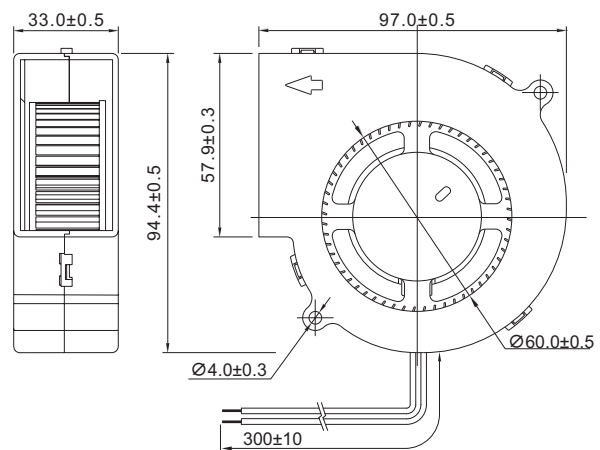
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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97x97x33mm

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

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

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

Voltage Available

05 12 24 48

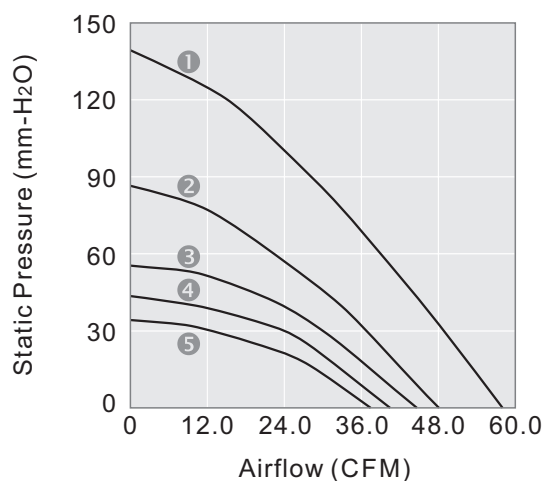
Bearing System Available

2B L S

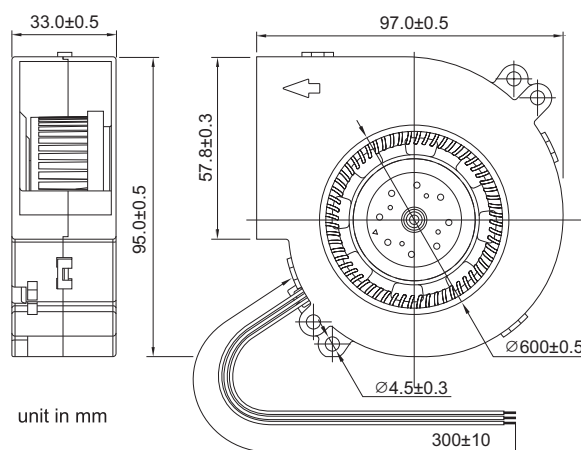
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x32mm

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

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

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

Voltage Available

05 12 24 48

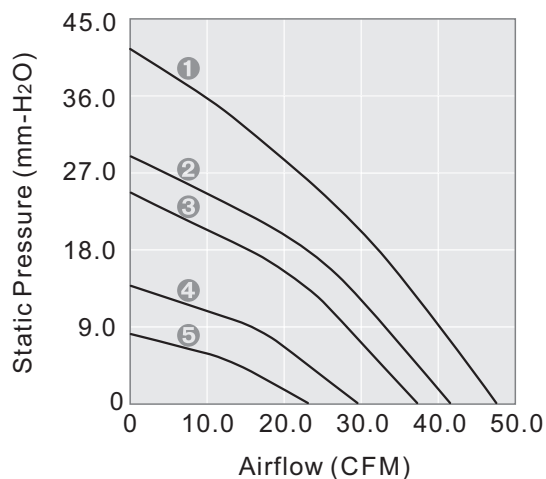
Bearing System Available

2B L S

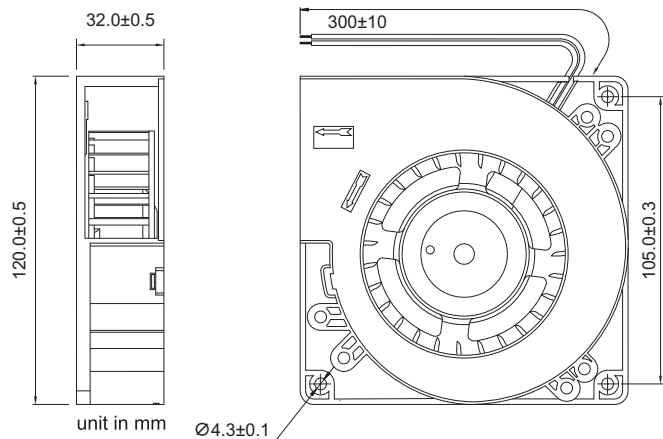
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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79.6x78.2x24.3mm

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

[illegible]

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

Voltage Available

05 12 24 48

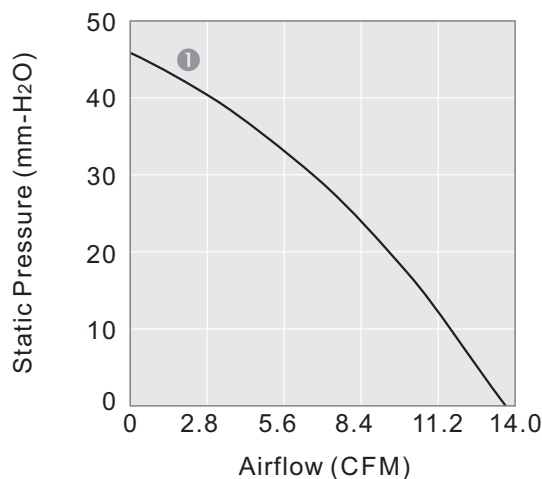
Bearing System Available

2B L S

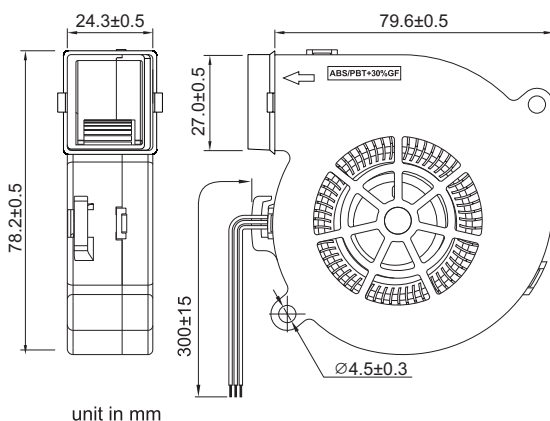
Function Available

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



OUTLINE DIMENSIONS



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100x98x25mm

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

[illegible]

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

Voltage Available

05 12 24 48

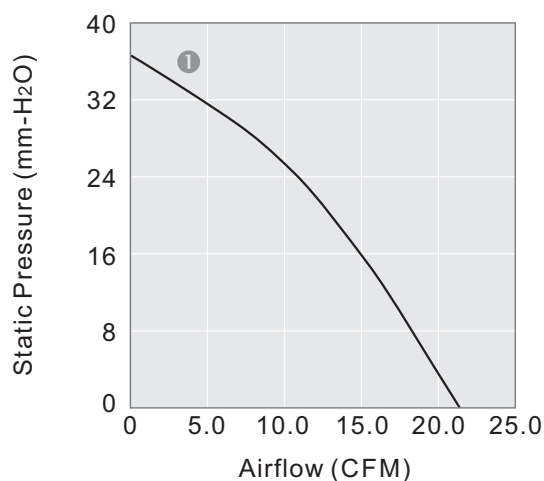
Bearing System Available

2B L S

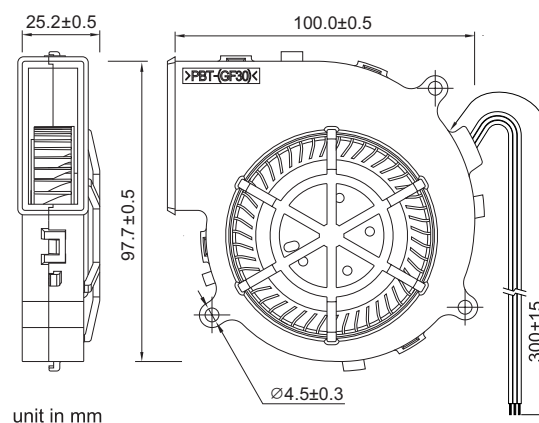
Function Available

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

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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110x112x25mm

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

[illegible]

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

Voltage Available

05 12 24 48

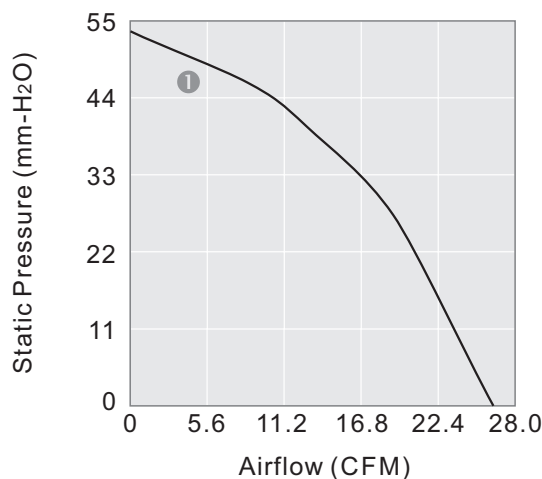
Bearing System Available

2B L S

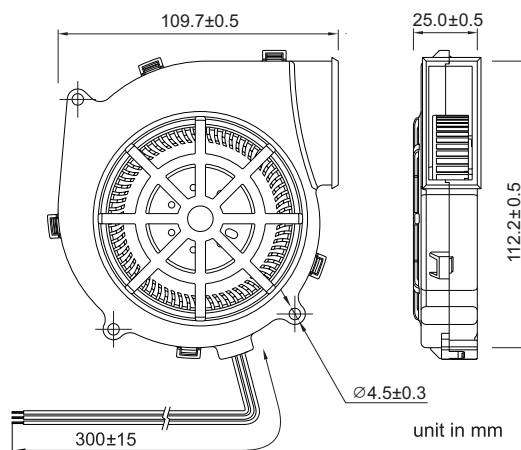
Function Available

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



OUTLINE DIMENSIONS



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80x80x25mm

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

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

2B: 2-ball bearing S: sleeve bearing

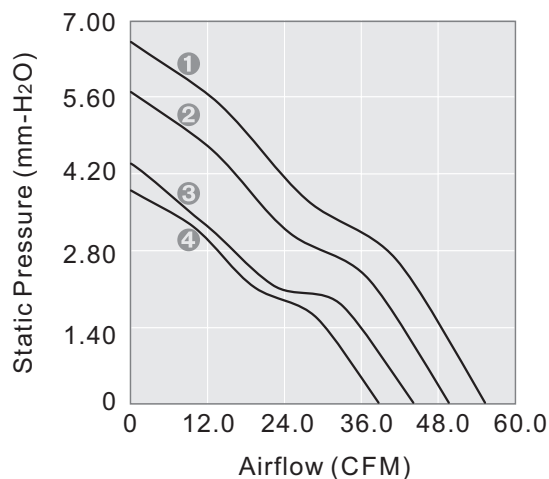
Voltage Available

115 230

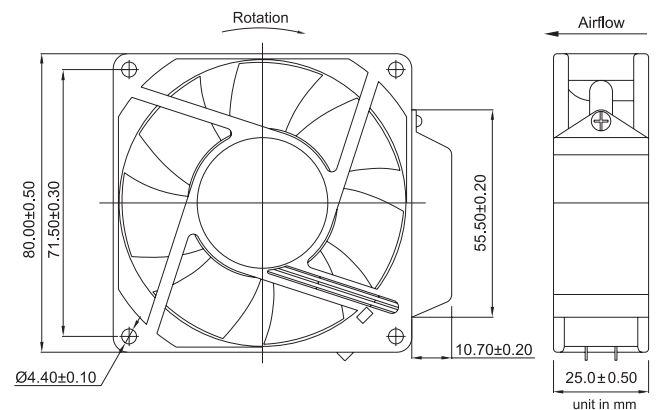
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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80x80x26mm

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

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

2B: 2-ball bearing S: sleeve bearing

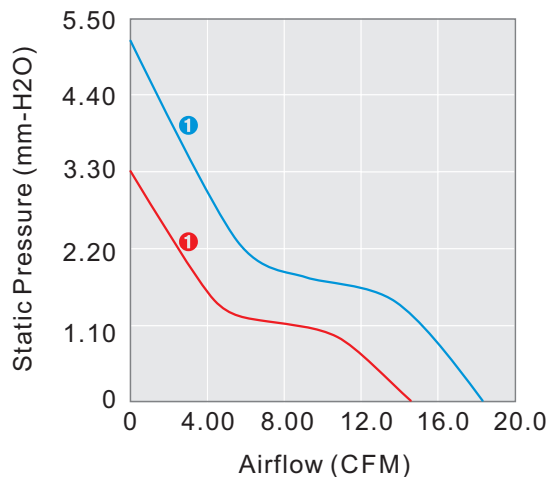
Voltage Available

115 230

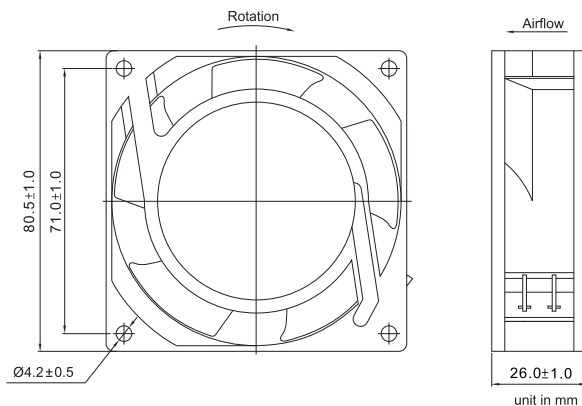
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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80x80x38mm

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

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

2B: 2-ball bearing S: sleeve bearing

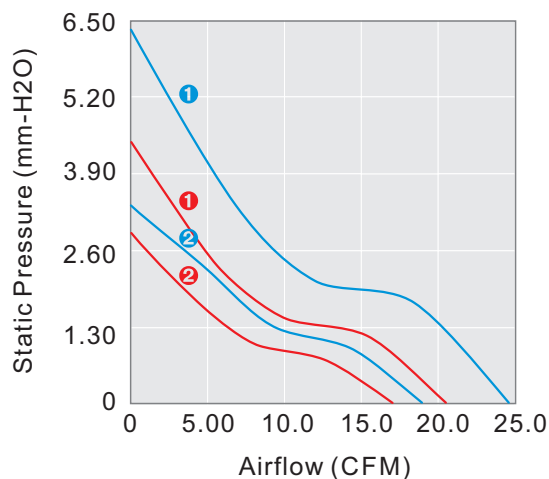
Voltage Available

115 230

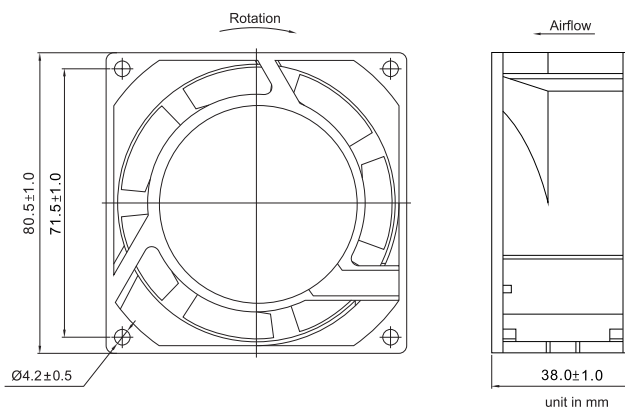
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x25.5mm

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

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

2B: 2-ball bearing S: sleeve bearing

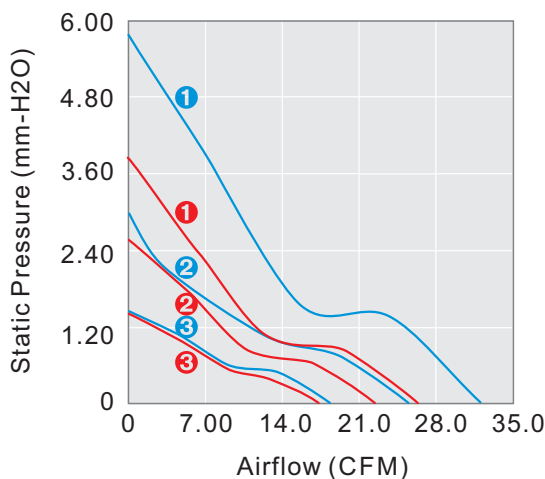
Voltage Available

115 230

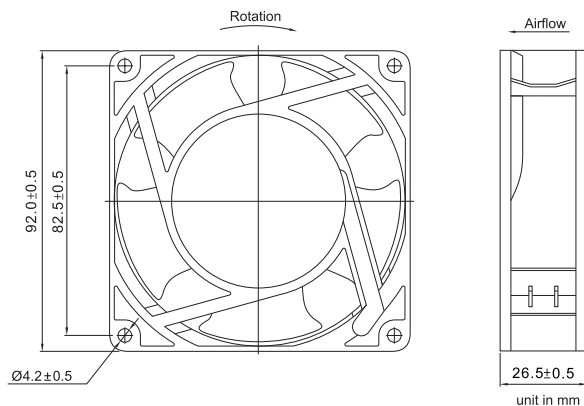
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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92x92x38.0mm

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

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

2B: 2-ball bearing S: sleeve bearing

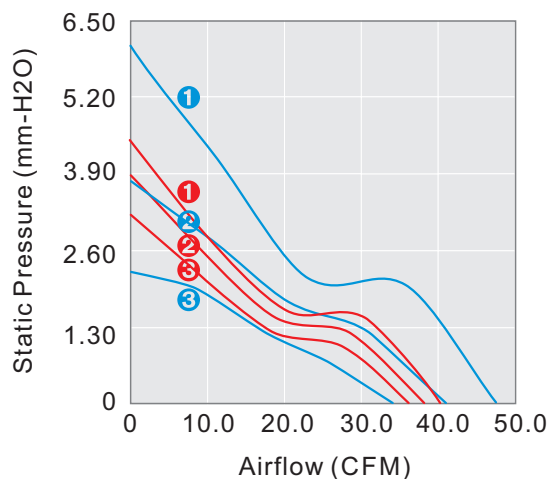
Voltage Available

115 230

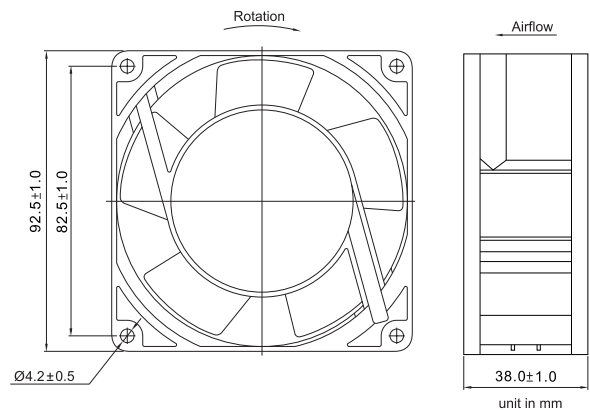
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x25.5mm

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

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

2B: 2-ball bearing S: sleeve bearing

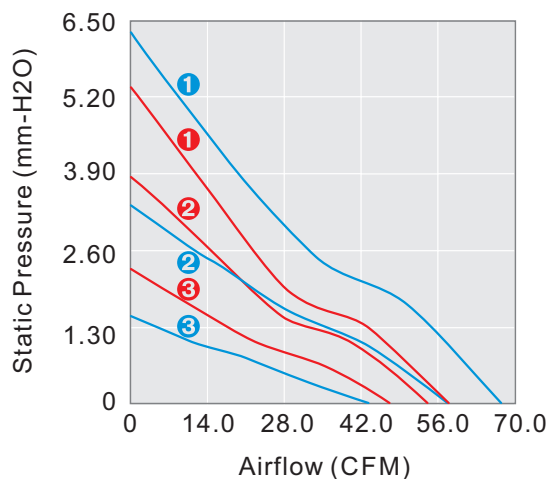
Voltage Available

115 230

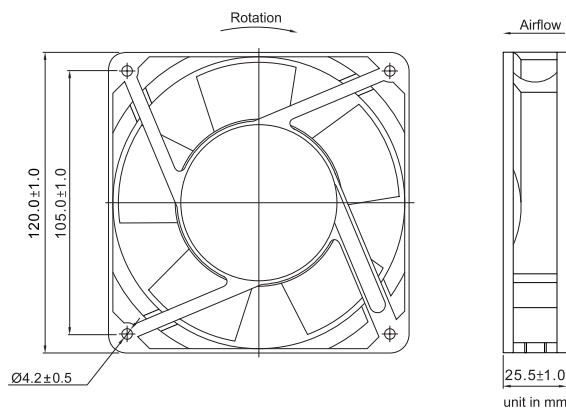
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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120x120x38mm

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

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

2B: 2-ball bearing S: sleeve bearing

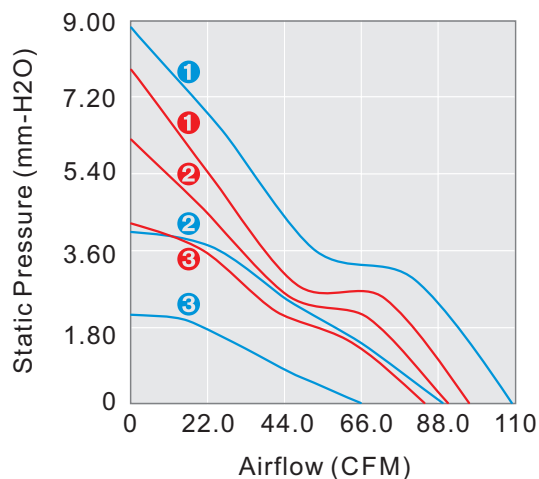
Voltage Available

115 230

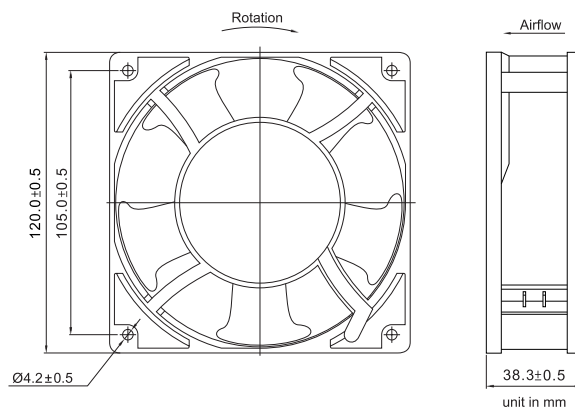
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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

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172x150x51mm

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

	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 25°C L10	P-Q Curve	Noise Level
Model No.		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA117251HBT-T 2B		115	50/60	2600/3000	190/223	15.0/19.0	0.24/0.25	24.0/28.0	60000		56.6/60.6
FA117251HBL-T 2B			50/60	2600/3000	190/223	15.0/19.0	0.24/0.25	24.0/28.0	60000		56.6/60.6
FA217251HBT-T 2B		230	50/60	2600/3000	190/223	15.0/19.0	0.12/0.16	24.0/28.0	60000		56.6/60.6
FA217251HBL-T 2B			50/60	2600/3000	190/223	15.0/19.0	0.12/0.16	24.0/28.0	60000		56.6/60.6

2B: 2-ball bearing S: sleeve bearing

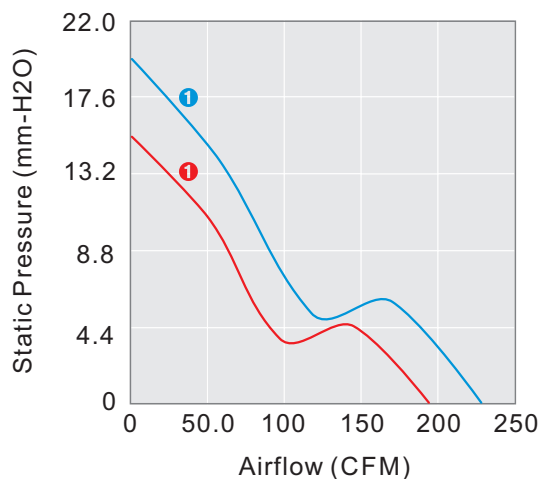
Voltage Available

115 230

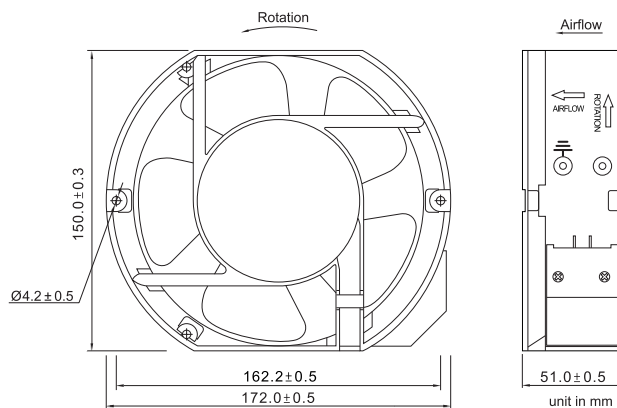
Bearing System Available

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	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 65°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA117689HBT-T	2B	115	50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	①/②	61.1/64.8
FA117689HBL-T	2B		50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	①/②	61.1/64.8
FA217689HBT-T	2B	230	50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	①/②	61.1/64.8
FA217689HBL-T	2B		50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	①/②	61.1/64.8

2B: 2-ball bearing S: sleeve bearing

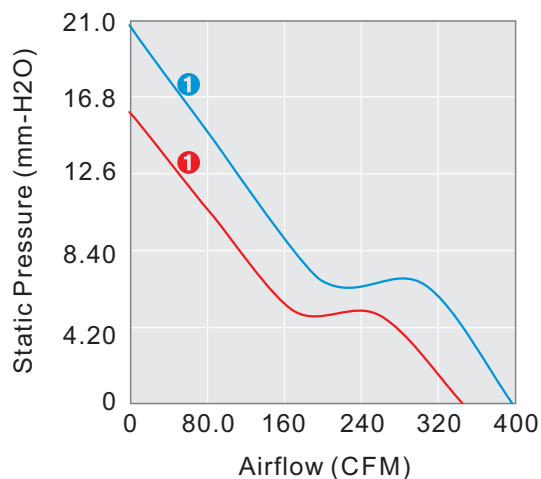
Voltage Available

115 230

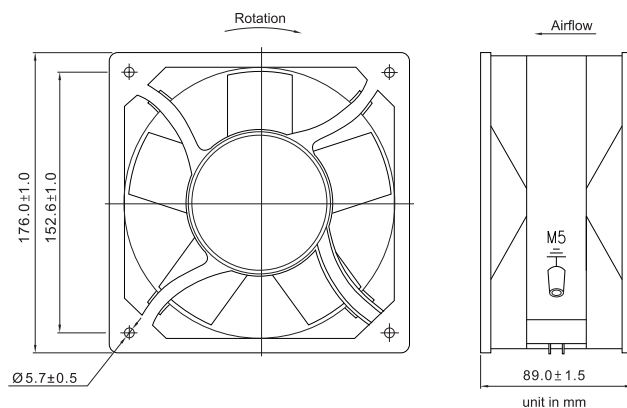
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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180x180x65mm

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

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

2B: 2-ball bearing S: sleeve bearing

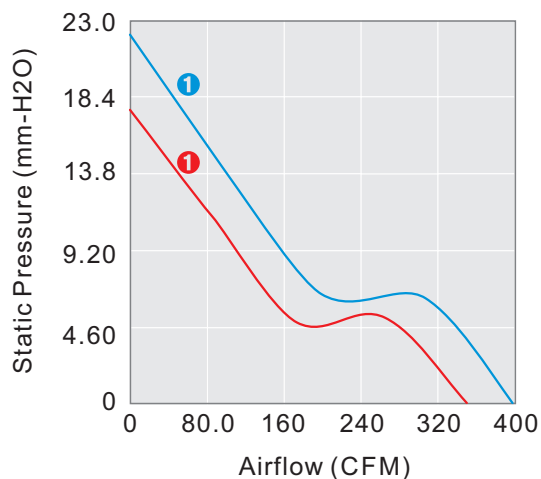
Voltage Available

115 230

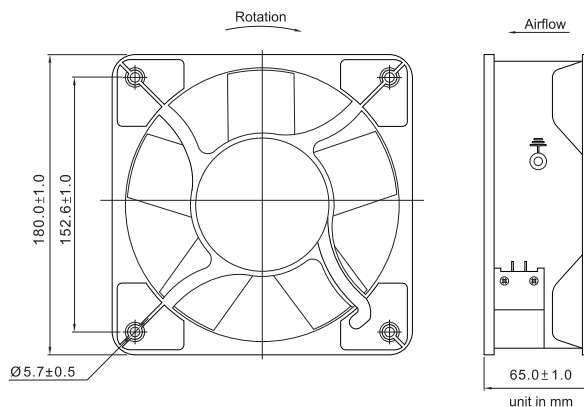
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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Ø 254x89mm

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

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

2B: 2-ball bearing S: sleeve bearing

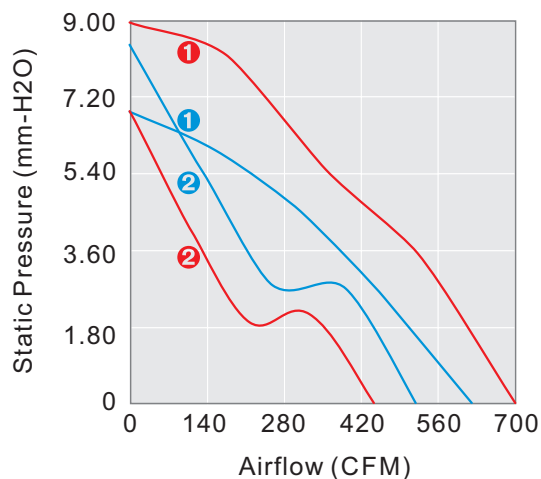
Voltage Available

115 230

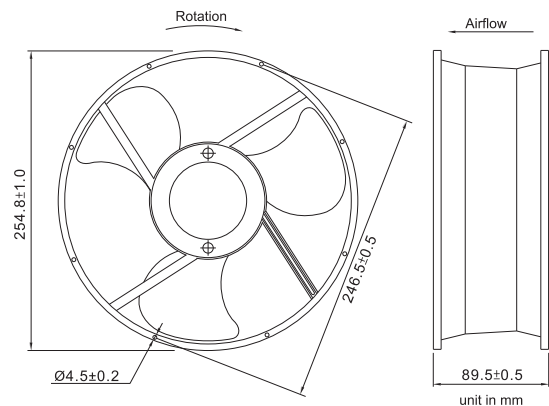
Bearing System Available

2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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280x280x89mm

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

Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 65°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H ₂ O	A	W	Hour		dB(A)
FA128090MBT-T 2B	115	115	50/60	1500/1700	655/ 779	9.65/12.2	0.82/0.67	61/ 60	40000	②/②	56.2/59.0
FA128090MBL-T 2B			50/60	1500/1700	655/ 779	9.65/12.2	0.82/0.67	61/ 60	40000	②/②	56.2/59.0
FA128090HBT-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	1.65/2.50	185/300	40000	①/①	67.8/69.3
FA128090HBL-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	1.65/2.50	185/300	40000	①/①	67.8/69.3
FA228090MBT-T 2B	230	230	50/60	1500/1700	655/ 779	9.65/12.2	0.42/0.35	62/ 65	40000	②/②	56.2/59.0
FA228090MBL-T 2B			50/60	1500/1700	655/ 779	9.65/12.2	0.42/0.35	62/ 65	40000	②/②	56.2/59.0
FA228090HBT-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	0.75/1.25	185/290	40000	①/①	67.8/69.3
FA228090HBL-T 2B			50/60	2800/3200	1321/1424	33.0/23.1	0.75/1.25	185/290	40000	①/①	67.8/69.3

2B: 2-ball bearing S: sleeve bearing

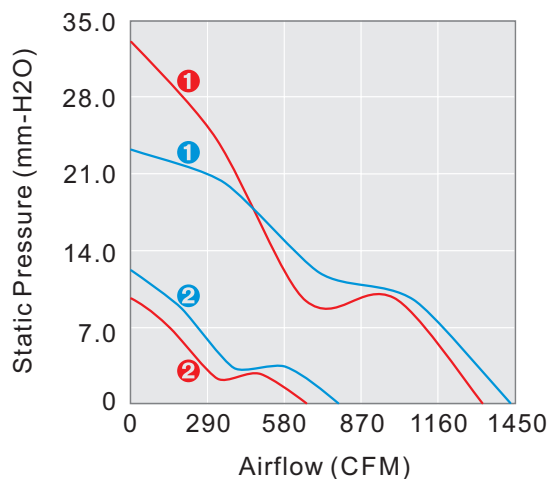
Voltage Available

115 230

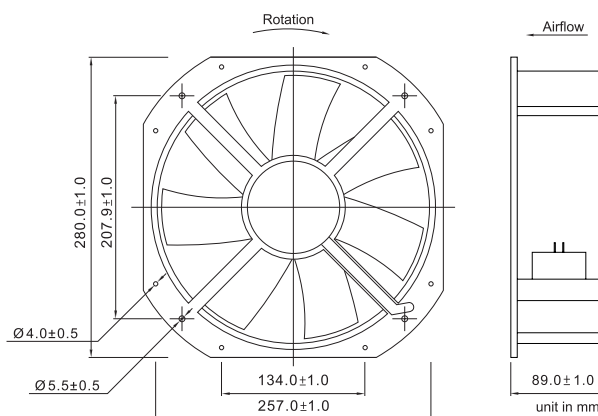
Bearing System Available

2B S

PERFORMANCE P-Q CURVE

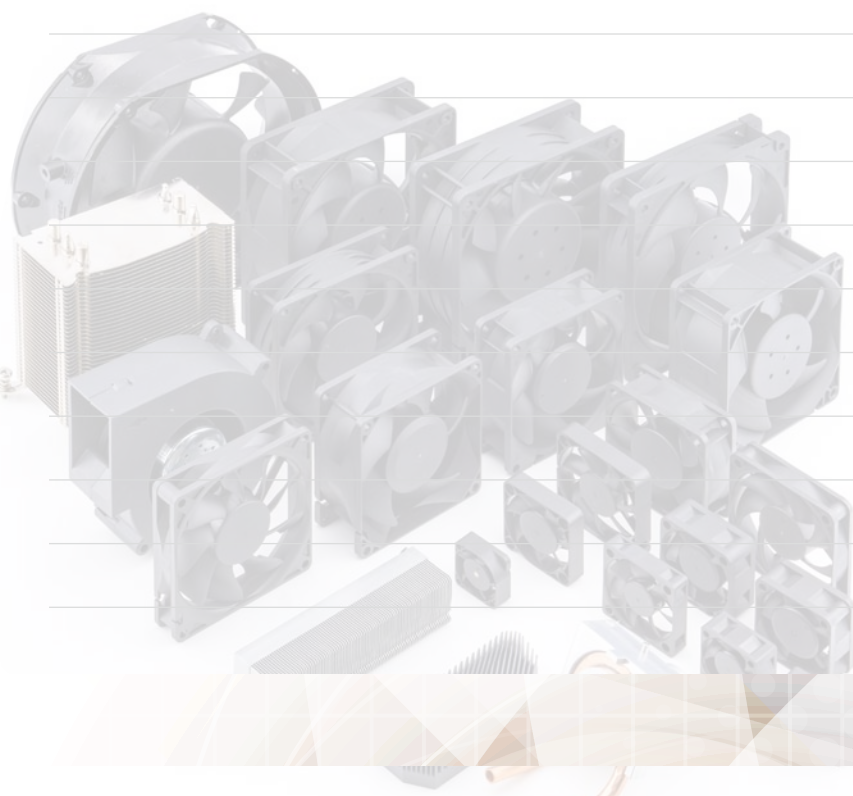


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YEN SUN TECHNOLOGY CORPORATION

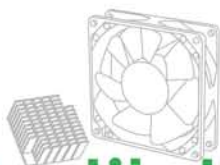
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