



PRODUCTS GUIDE **江苏流透科技**

NEC **COOLING SOLUTION**

AXIAL FAN / MIXED FLOW FAN / CENTRIFUGAL FAN

Zeiss Aerodynamics Co., Ltd.

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Model Code Regulations 命名规则

D	S	120	38	B	028	68	01	001	J
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

The **1st** digit indicates the **series**, represented by a capital letter. D=DC; A=AC; E=AC to DC.

The **2nd** digit indicates the **type**, represented by a capital letter. S=axial flow; C=centrifugal; M=mixed flow.

The **3rd** digit indicates the **frame size of the fan**, represented by 3 number.

The **4th** digit indicates the **thickness of the fan**, represented by 2 number.

The **5th** digit indicates the **bearing type**, represented by a capital letter. S=Sleeve; B=Ball; D=Double ball.

The **6th** digit represents the **voltage**, represented by 3 number. 005/012/024/028/036. ...

The **7th** digit indicates the **IP level**, represented by 2 number. 00 (no IP)/21/54/68...

The **8th** digit represents the **series code**, and 2 number represent 00-99. The 1st to 7th are all the same but the speed/power is different.

The **9th** digit represents the **customer code**, which is the code of different customers, represented by 3 number. 000-999.

The **10th** digit represents the **fan level**, represented by a capital letter. J: military products; N: civilian products.

第1位表示系列，由1位大写字母表示。D=直流；A=交流；E=交流转直流。

第2位表示类型，由1位大写字母表示。S=轴流；C=离心；M=混流。

第3位表示风机外框尺寸，由3位阿拉伯数字表示。

第4位表示风扇厚度，由2位阿拉伯数字表示。

第5位表示轴承类型，由1位大写字母表示。S=含油；B=滚珠；D=双滚珠。

第6位表示电压，由3位阿拉伯数字表示。005/012/024/028/036.....。

第7位表示IP等级，由2位阿拉伯数字表示。00（无IP）/21/54/68.....。

第8位表示系列世代码，由2位阿拉伯数字表示00-99。即第1-7位都相同但是转速/功率不同。

第9位表示客委码即不同客户的代码，由3位阿拉伯数字表示。000-999。

第10位表示风机级别，由1位大写字母表示。J：军品；N：民品。

IP Ratings & Standards Explained IP等级

The protection level is composed of the letter IP plus two numbers. The first number after IP indicates the dustproof level, and the second number indicates the waterproof level.

防护等级由字母IP加两位数字组成，IP后第一位数字表示防尘等级，第二位数表示防水等级。

The first number after IP: Solid (Dustproof)

IP后第一位数字：固体（防尘）

0 No protection 无防护

No special protection against outsiders or things 对外界的人或物无特殊的防护

1 Protected against solid objects over 50mm, e.g. accidental touch by persons hands 防止直径大于50mm的固体外物侵入

Protection from a large part of the body such as a hand (but no protection from deliberate access); from solid objects greater than 50mm in diameter.

防止人体（如手掌）因意外而接触到电器内部的零件，防止较大尺寸（直径大于50mm）的外物侵入

2 Protected against solid objects over 12.5mm, e.g. persons fingers 防止直径大于12.5mm的固体外物侵入

Protection against fingers or other object not greater than 80mm in length and 12mm in diameter (accidental finger contact).

防止人的手指接触到电器内部的零件，防止中等尺寸（直径大于12.5mm）的外物侵入

3 Protected against solid objects over 2.5mm (tools and wires) 防止直径大于2.5mm的固体外物侵入

Protection from entry by tools, wires etc, with a diameter of 2.5 mm or more.

防止直径或厚度大于2.5mm的工具、电线及类似的小型外物侵入而接触到电器内部的零件

4 Protected against solid objects over 1mm (tools, wires, and small wires) 防止直径大于1.0mm的固体外物侵入

Protection against solid objects larger than 1mm (wires, nails, screws, larger insects and other potentially invasive small objects such as tools/small etc).

防止直径或厚度大于1.0mm的工具、电线及类似的小型外物侵入而接触到电器内部的零件

5 Protected against dust limited ingress (no harmful deposit) 防止外物及灰尘

Partial protection against dust that may harm equipment.

防止完全防止外物侵入，虽不能完全防止灰尘侵入，但灰尘的侵入量不会影响电器的正常运作

6 Totally protected against dust 防止外物及灰尘

Totally dust tight. Full protection against dust and other particulates, including a vacuum seal, tested against continuous airflow.

完全防止外物及灰尘侵入

The second number after IP: Liquid (Waterproof)

IP后第二位数字：液体（防水）

0

No protection 无防护

No special protection against outsiders or things 对外界的人或物无特殊的防护

1

Protection against vertically falling drops of water e.g. condensation 防止水滴侵入

Protection against vertically falling droplets, such as condensation. ensuring that no damage or interrupted functioning of components will be incurred when an item is upright.

垂直落下的水滴（如凝结水）不会对电器造成损坏

2

Protection against direct sprays of water up to 15° from the vertical 倾斜15度时，仍可防止水滴侵入

Protection against water droplets deflected up to 15° from vertical.

当电器由垂直倾斜至15度时，滴水不会对电器造成损坏

3

Protected against direct sprays of water up to 60° from the vertical 防止喷洒的水侵入

Protected against spray up to 60° from vertical.

防雨或防止与垂直的夹角小于60度的方向所喷洒的水侵入电器而造成的损坏

4

Protection against water sprayed from all directions - limited ingress permitted. 防止飞溅的水侵入

Protected against water splashes from all directions. Tested for a minimum of 10 minutes with an oscillating spray (limited ingress permitted with no harmful effects).

防止各个方向飞溅而来的水侵入电器而造成损坏

5

Protected against low pressure jets of water from all directions - limited ingress permitted 防止喷射的水侵入

Protection against low-pressure jets (6.3 mm) of directed water from any angle (limited ingress permitted with no harmful effects).防持续至少3分钟的低压喷水

6

Protected from high pressure water jets from any direction 防止大浪侵入

Protection against direct high pressure jets.

防持续至少3分钟的大量喷水

7

Protected against the effect of immersion between 15 cm and 1 m 防止浸水时水的侵入

Protection against full immersion for up to 30 minutes at depths between 15 cm and 1 metre (limited ingress permitted with no harmful effects).防在深达1米的水中30分钟的浸泡影响

8

Protects against long periods of immersion up to a specified pressure 防止沉没时水的侵入

Protection against extended immersion under higher pressure (i.e. greater depths). Precise parameters of this test will be set and advertised by the manufacturer and may include additional factors such as temperature fluctuations and flow rates, depending on equipment type.

防在深度超过1米的水中持续浸泡影响（准确的条件由制造商针对各个设备指定）



轴流风机系列

Axial fans

DC AC EC

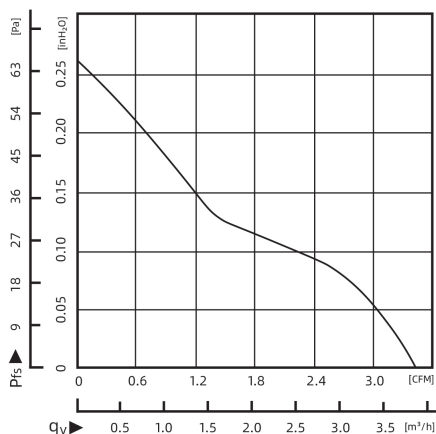
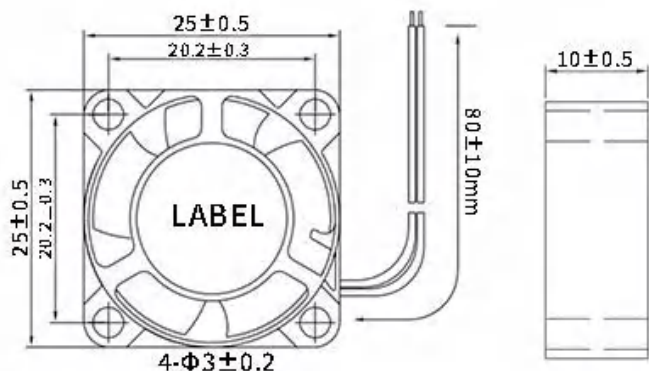


25x10 mm

Weight	8.95g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS02510B012001	12	6~13.8	0.13	1.08	13000	3.74	3.39	0.26	65.65	30.0

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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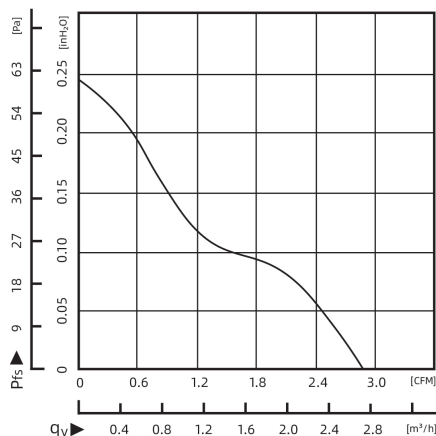
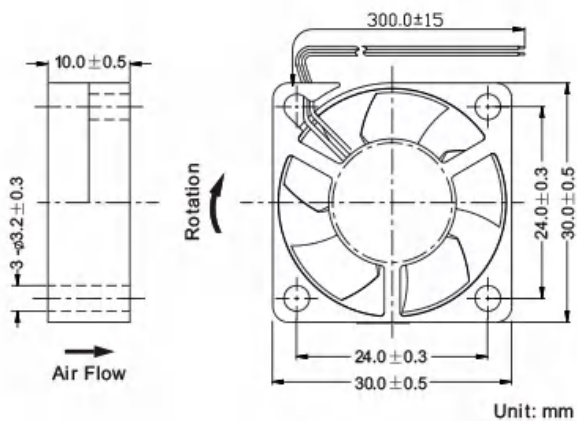


30x10 mm

Weight	10.65g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS03010B0120001	12	6~13.8	0.065	0.78	11000	2.91	2.86	0.24	59.4	37.0
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Default				Optional										
	RP	SS	AS		CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC





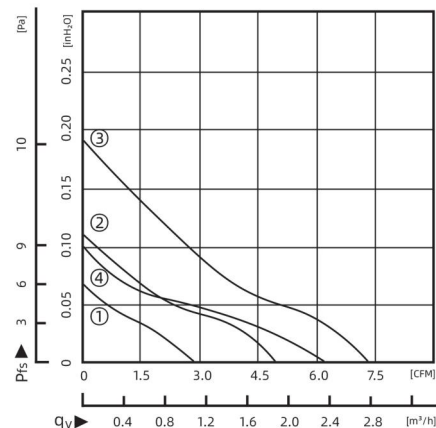
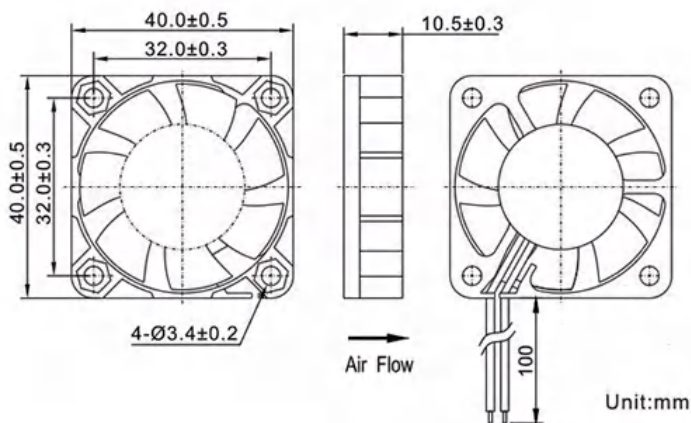
40x10 mm

Weight	17.45g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS04010B0120001	12	6~13.8	0.04	0.48	4100	5.03	2.95	0.07	17.7	19.0
DS04010B0120002	12	6~13.8	0.047	0.56	5900	8.28	4.85	0.11	26.9	23.0
DS04010B0120003	12	6~13.8	0.073	0.88	7000	12.43	7.28	0.19	48.6	28.0
DS04010B0240001	24	12~27.6	0.027	0.65	5430	10.52	6.16	0.10	25.5	24.0

Default	RP	SS	AS
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Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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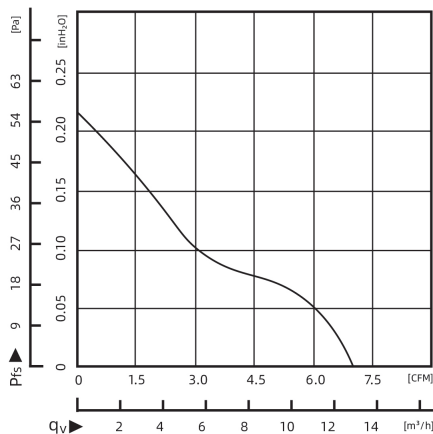
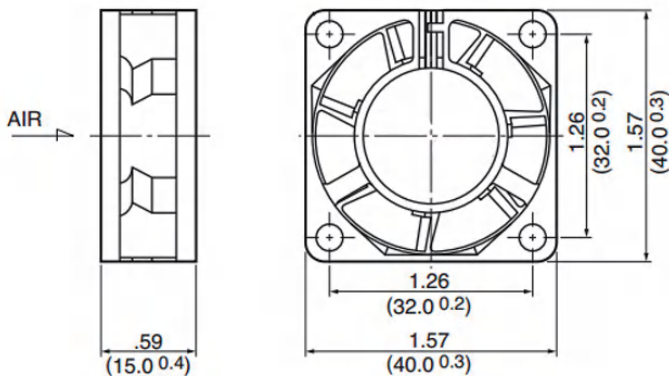


40x15 mm

Weight	21.15g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS04015B0240001	24	12~27.6	0.028	0.67	5992	12.2	7.1	0.22	55.12	28
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Default	RP	SS	AS							
Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC





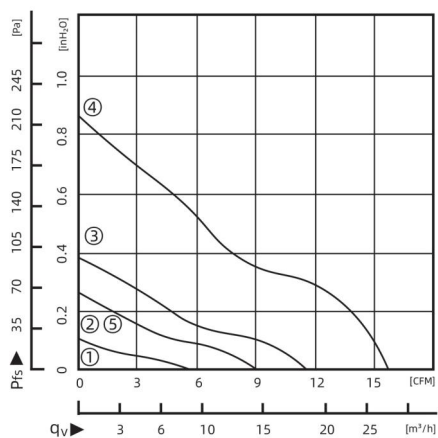
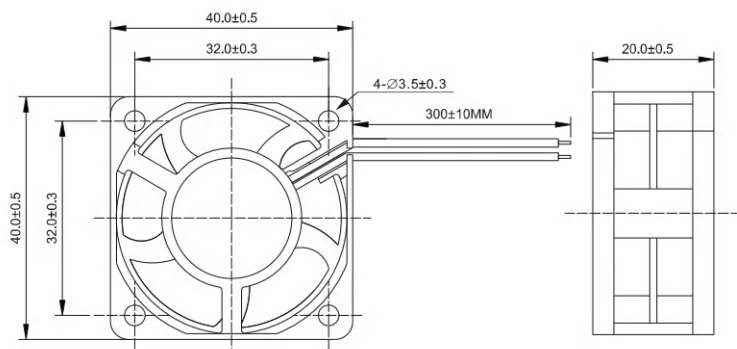
40x20 mm

Weight	26.5g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS04020B0120001	12	6~13.8	0.09	1.08	4600	9.87	5.78	0.11	27.98	20.0
DS04020B0120002	12	6~13.8	0.13	1.56	7200	15.47	9.06	0.26	63.60	30.0
DS04020B0120003	12	6~13.8	0.18	2.16	9000	19.71	11.54	0.39	96.87	34.0
DS04020B0120004	12	6~13.8	0.22	2.64	13700	27.32	16.00	0.86	213.00	42.0
DS04020B0240001	24	6~13.8	0.11	2.64	6900	15.47	9.06	0.26	63.60	32.0

Default RP SS AS

Optional CL OV CS FG RD LD PPWM VPWM TC RC





40x25 mm

Weight	55.45g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

[illegible]

Default

RP

SS

AS

Optional

CL

OV

CS

FG

RD

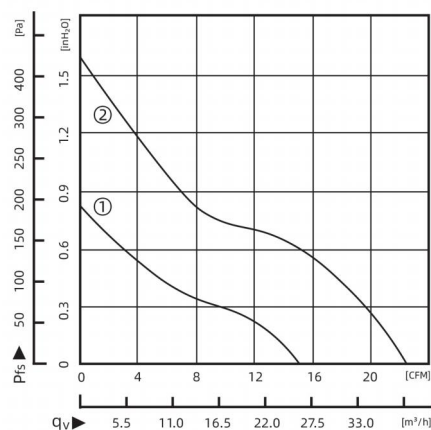
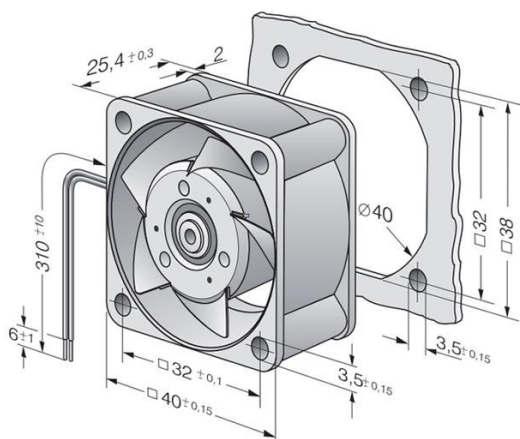
LD

PPWM

VPWM

TC

RC





50x15 mm

Weight **29g**
 Storage **Ball bearing**
 Service life L10 at 40 °C **7000h**
 Service life L10 at maximum temperature **4000h**
 Operating temperature range **-40°C ~ 85°C, 5%~95%RH**
 Storage temperature range **-55°C ~ 85°C, 5%~95%RH**

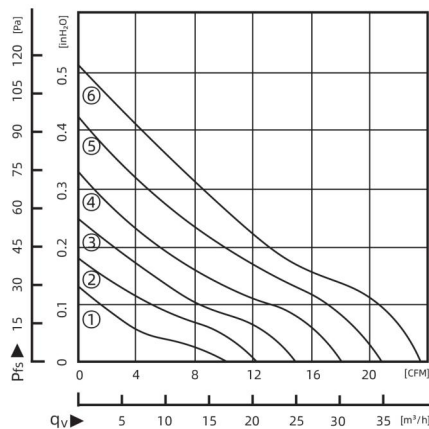
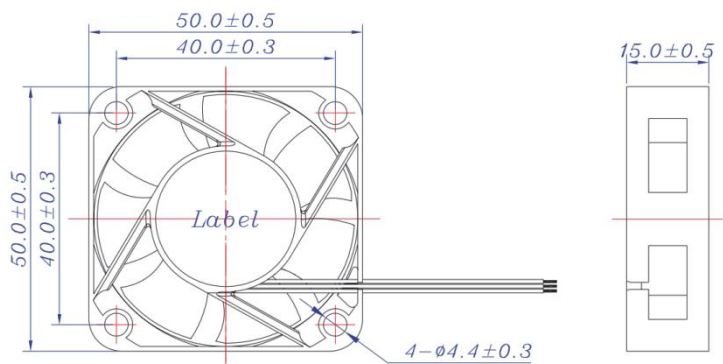
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS05015B0120001	12	5~13.8	0.07	0.84	4000	18.00	10.5	0.12	29.1	27.4
DS05015B0120002	12	5~13.8	0.10	1.20	5000	21.78	12.8	0.18	43.8	31.0
DS05015B0120003	12	5~13.8	0.14	1.68	6000	26.64	15.6	0.25	61.0	34.7
DS05015B0120004	12	5~13.8	0.20	2.40	7000	31.14	18.3	0.33	80.9	38.9
DS05015B0120005	12	5~13.8	0.26	3.12	8000	35.70	21.0	0.42	103.9	42.7
DS05015B0120006	12	5~13.8	0.30	4.20	9000	40.50	23.8	0.51	127.4	45.3

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





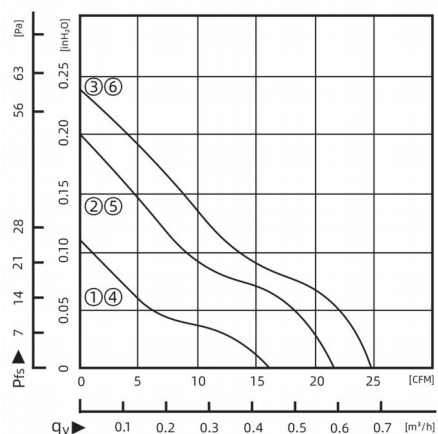
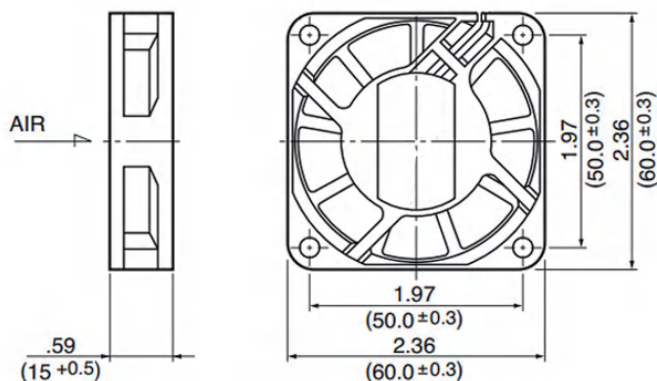
60x15 mm

Weight	40g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS06015B0120001	12	6~13.8	0.18	2.16	3600	0.45	16.0	2.78	27.2	30.1
DS06015B0120002	12	6~13.8	0.20	2.40	4800	0.62	22.0	5.05	53.0	38.0
DS06015B0120003	12	6~13.8	0.37	4.44	5400	0.70	24.8	5.97	58.5	41.3
DS06015B0240001	24	12~27.6	0.13	3.12	3600	0.45	16.0	2.78	27.2	30.1
DS06015B0240002	24	12~27.6	0.10	2.40	4800	0.62	22.0	5.05	53.0	38.0
DS06015B0240003	24	12~27.6	0.26	6.24	5400	0.70	24.8	5.97	58.5	41.3

Default RP SS AS

Optional CL OV CS FG RD LD PPWM VPWM TC RC



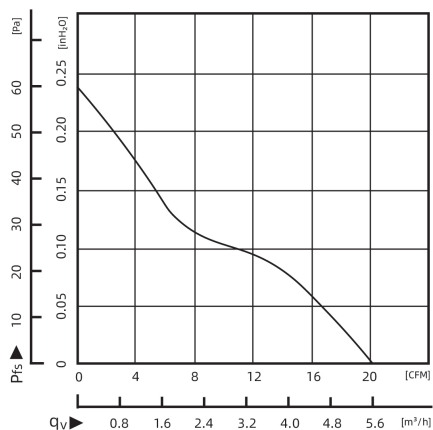
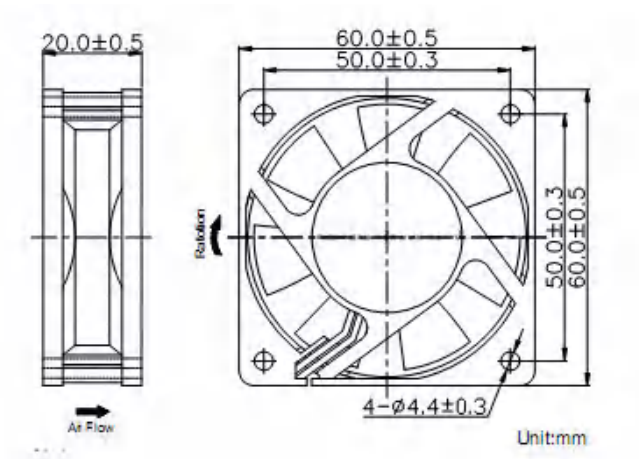


60x20 mm

Weight	49g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS06020B0120001	12	6~13.8	0.1	1.2	4500	5.67	20.3	0.24	59.2	24

Default	RP	SS	AS							
Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC





60x25 mm

Weight **90g**
 Storage **Ball bearing**
 Service life L10 at 40 °C **7000h**
 Service life L10 at maximum temperature **4000h**
 Operating temperature range **-40°C ~ 85°C, 5%~95%RH**
 Storage temperature range **-55°C ~ 85°C, 5%~95%RH**

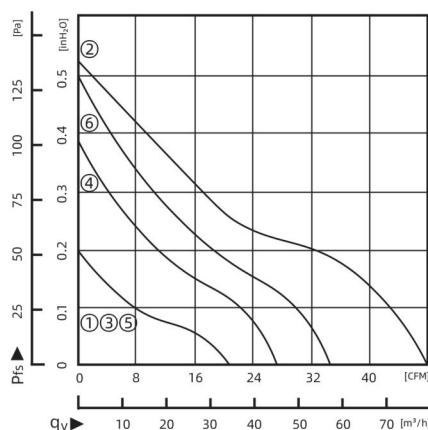
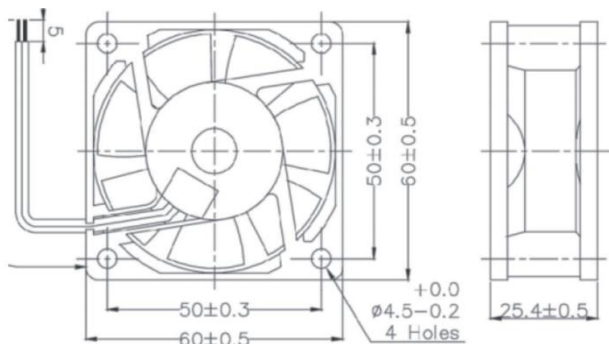
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS06025B0120001	12	6~13.8	0.17	2.04	4200	36.0	21.2	0.20	50.9	30.2
DS06025B0120002	12	6~13.8	0.53	6.36	8000	74.4	43.9	0.53	132.0	48.0
DS06025B0240003	24	12~27.6	0.14	3.36	4200	36.0	21.2	0.20	50.9	30.2
DS06025B0240001	24	12~27.6	0.13	3.12	6000	45.6	27.0	0.39	98.0	42.0
DS06025B0480002	48	36~57.6	0.05	2.40	4200	36.0	21.2	0.20	50.9	30.2
DS06025B0480003	48	36~57.6	0.25	12.00	6800	60.0	35.5	0.50	123.5	42.6

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





60x38 mm

Weight **90g**
 Storage **Ball bearing**
 Service life L10 at 40 °C **7000h**
 Service life L10 at maximum temperature **4000h**
 Operating temperature range **-40°C ~ 85°C, 5%~95%RH**
 Storage temperature range **-55°C ~ 85°C, 5%~95%RH**

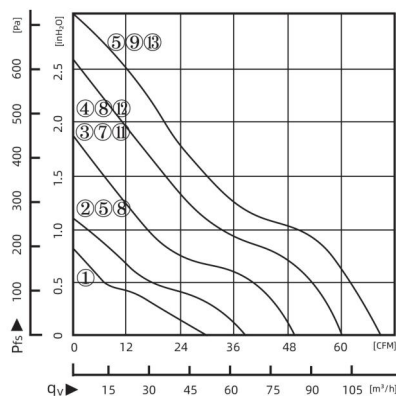
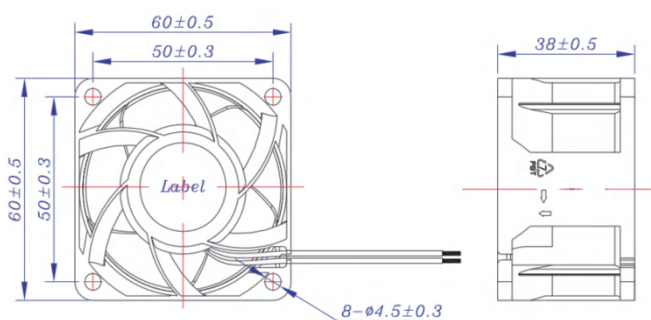
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS06038B0120001	12	5~13.8	0.35	4.2	8000	51.96	30.5	0.75	186.2	44.0
DS06038B0120002	12	5~13.8	0.50	6.0	10000	66.06	38.8	1.19	295.0	50.3
DS06038B0120003	12	5~13.8	0.95	11.4	13000	83.82	49.3	1.84	458.8	54.5
DS06038B0120004	12	5~13.8	1.50	18.0	16000	103.68	61.0	2.60	649.0	58.8
DS06038B0120005	12	5~13.8	1.80	21.6	18000	116.58	68.6	3.05	759.8	62.0
DS06038B0240001	24	12~27.6	0.25	6.0	10000	66.06	38.8	1.19	295.0	50.3
DS06038B0240002	24	12~27.6	0.50	12.0	13000	83.82	49.3	1.84	458.8	54.5
DS06038B0240003	24	12~27.6	0.75	18.0	16000	103.68	61.0	2.60	649.0	58.8
DS06038B0240004	24	12~27.6	1.00	24.0	18000	116.58	68.6	3.05	759.8	62.0
DS06038B0480001	48	36~57.6	0.16	7.7	10000	66.06	38.8	1.19	295.0	50.3
DS06038B0480002	48	36~57.6	0.27	12.9	13000	83.82	49.3	1.84	458.8	54.5
DS06038B0480003	48	36~57.6	0.40	19.2	16000	103.68	61.0	2.60	649.0	58.8
DS06038B0480004	48	36~57.6	0.50	24.0	18000	116.58	68.6	3.05	759.8	62.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC



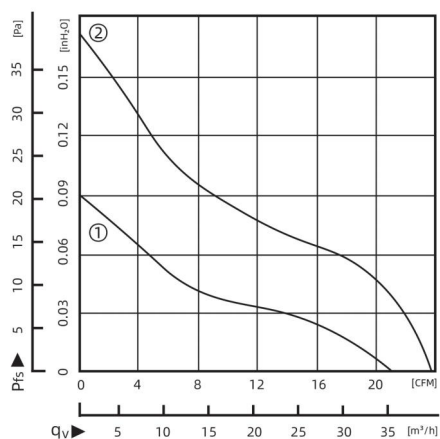
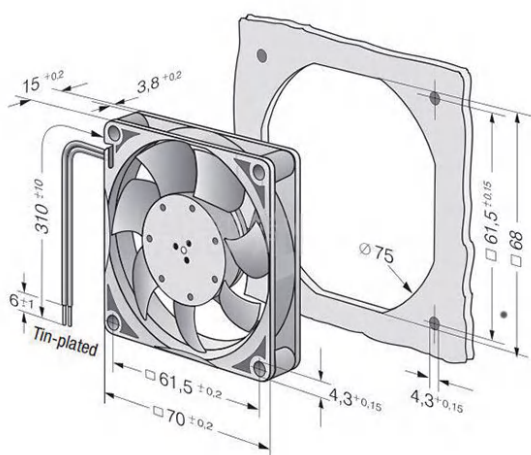


70x15 mm

Weight	45.45g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

[illegible]

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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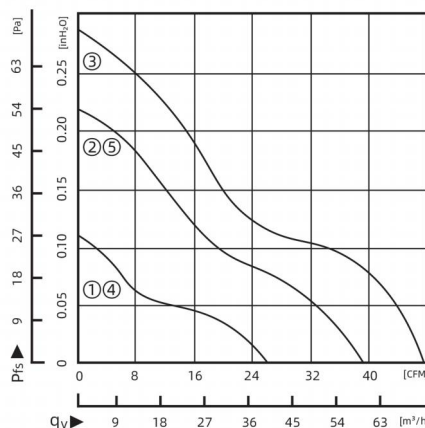
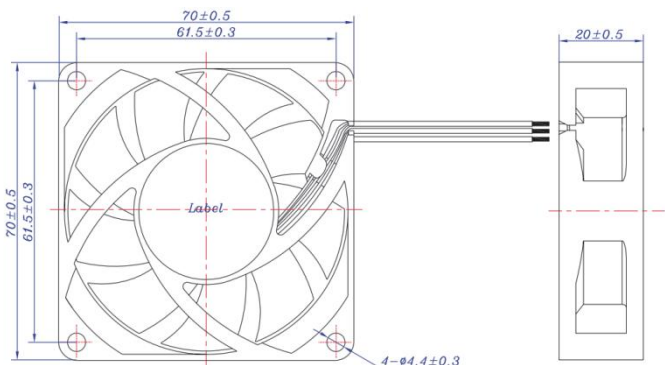


70x20 mm

Weight	66g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m ³ /h]	[CFM]	[inH ₂ O]	[Pa]	[db(A)]
DS07020B0120001	12	6~13.8	0.19	2.28	3000	44.4	26.0	0.11	27.0	31.5
DS07020B0120002	12	6~13.8	0.43	5.16	4300	66.0	38.7	0.22	55.2	40.8
DS07020B0120003	12	6~13.8	0.63	7.56	5400	81.0	47.5	0.28	69.5	47.0
DS07020B0240001	24	12~27.6	0.11	2.64	3000	44.4	26.0	0.11	27.0	31.5
DS07020B0240001	24	12~27.6	0.24	5.76	4300	66.6	38.7	0.22	55.2	40.8

Default	RP	SS	AS							
Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC

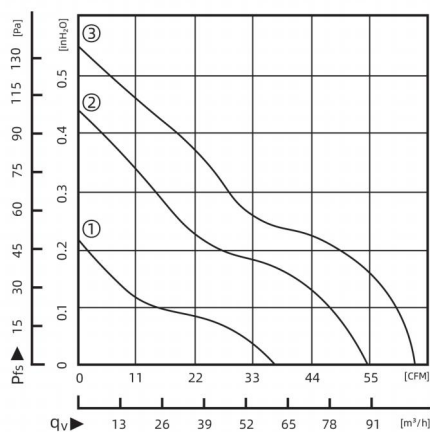
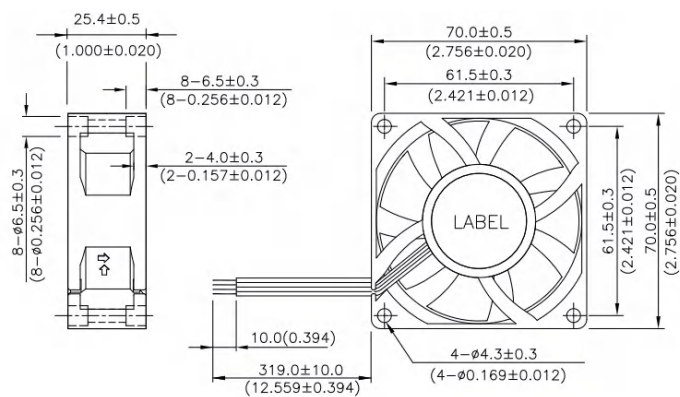




Weight	73.95g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

[illegible]

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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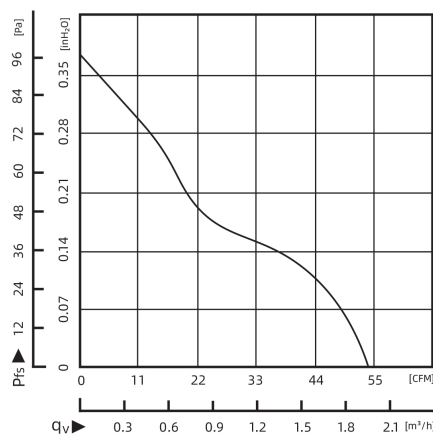
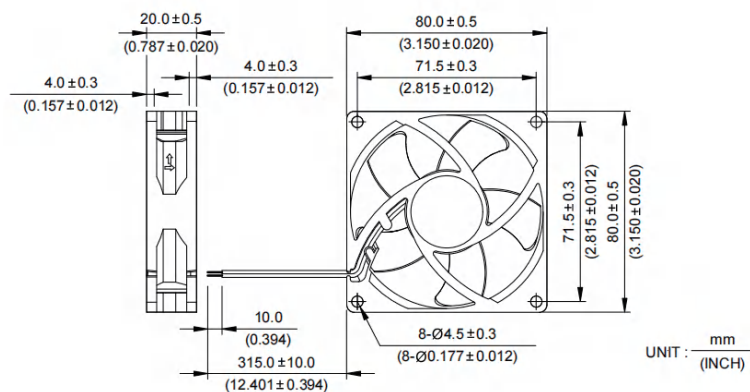


80x20 mm

Weight	73g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

[illegible]

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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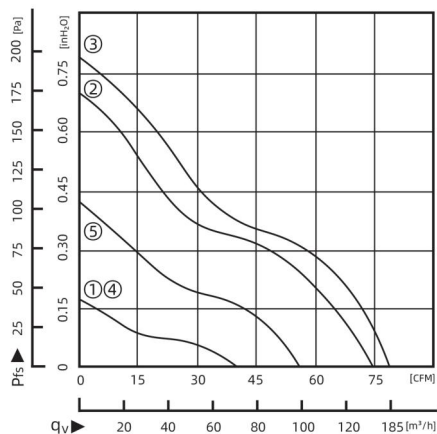
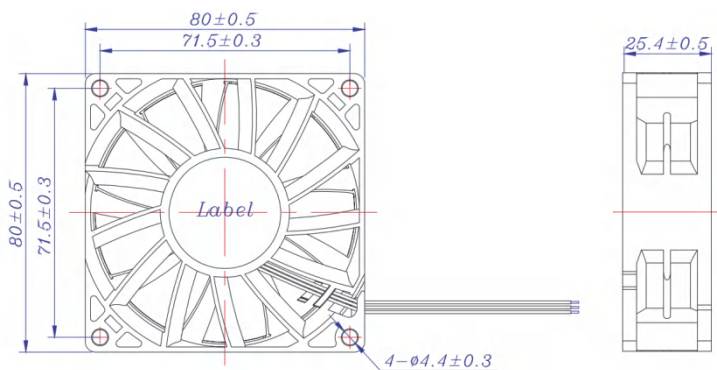
80x25 mm

Weight	73.95g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure	Noise	
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS08025B0120001	12	6~13.8	0.24	2.88	3000	67.2	39.6	0.17	43.2	34.5
DS08025B0120002	12	6~13.8	0.70	8.40	6000	126.0	74.2	0.70	175.8	52.0
DS08025B0240001	24	12~27.6	0.16	3.84	3000	67.2	39.6	0.17	43.2	34.5
DS08025B0240002	24	12~27.6	0.40	9.60	6500	135.6	79.8	0.79	197.8	60.0
DS08025B0280001	28	18~32.0	0.18	5.04	4500	92.4	54.5	0.41	100.7	45.0

Default	RP	SS	AS
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Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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80x38 mm

Weight	190g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

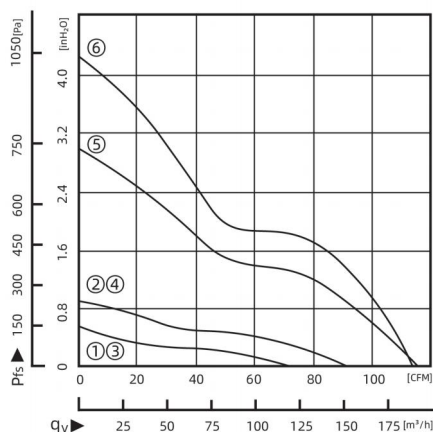
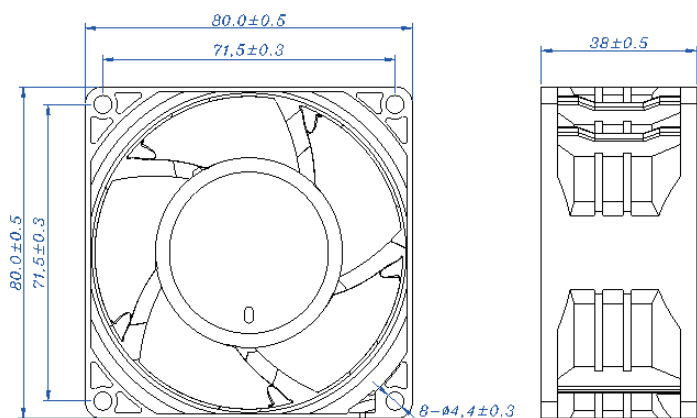
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS08038B0120001	12	6~13.8	0.54	6.48	5400	126.0	73.9	0.56	139.2	51.0
DS08038B0120002	12	6~13.8	0.92	11.00	6800	154.8	91.2	0.99	247.2	55.0
DS08038B0240001	24	12~27.6	0.32	7.68	5400	126.0	73.9	0.56	139.2	51.0
DS08038B0240002	24	12~27.6	0.46	11.00	6800	154.8	91.2	0.99	247.2	55.0
DS08038B0280003	24	12~27.6	1.20	28.80	13000	195.0	115.0	3.01	754.0	67.7
DS08038B0280001	28	18~32.0	0.83	23.24	12000	191.7	112.3	4.20	1043.8	69.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





92x25 mm

Weight	73.95g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

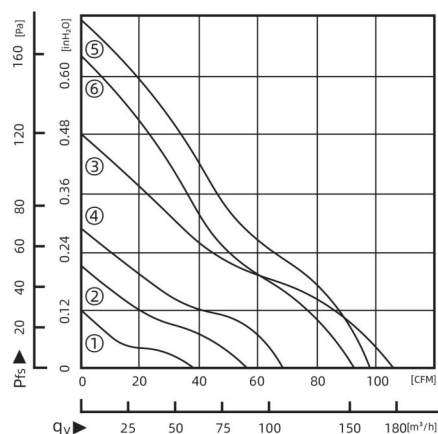
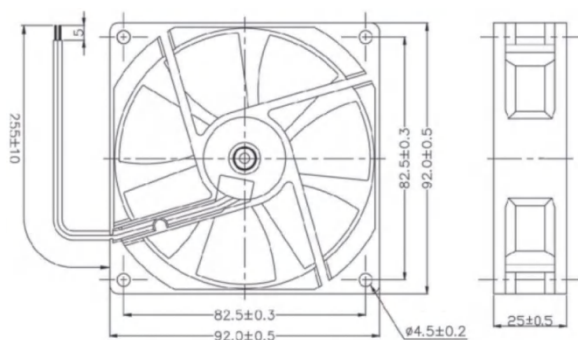
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS09225B0120001	12	6~13.8	0.17	2.04	2300	66.0	38.5	0.12	20.2	30.7
DS09225B0120002	12	6~13.8	0.41	4.92	3200	96.6	56.9	0.21	53.2	40.9
DS09225B0120003	12	6~13.8	0.78	9.36	5700	180.3	105.6	0.48	120.0	45.0
DS09225B0240001	24	12~27.6	0.22	5.28	3750	114.0	68.8	0.29	72.8	45.0
DS09225B0240002	24	12~27.6	0.67	16.08	5700	164.0	97.5	0.71	181.7	45.0
DS09225B0480001	48	36~55.0	0.26	12.50	6000	156.0	92.0	0.64	159.0	54.7

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





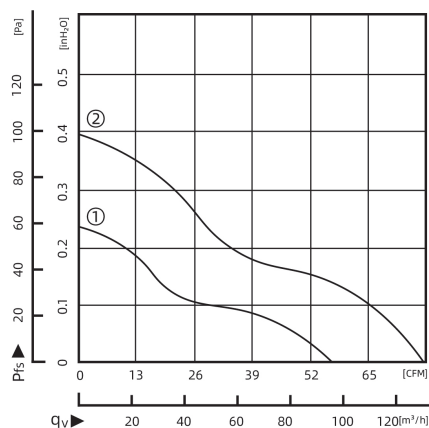
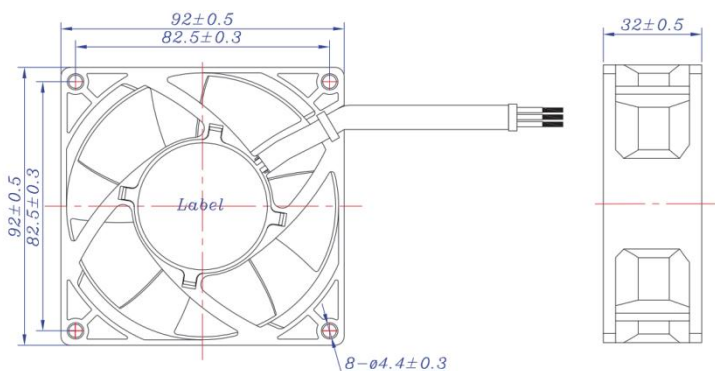
92x32 mm

Weight **170g**
 Storage **Ball bearing**
 Service life L10 at 40 °C **7000h**
 Service life L10 at maximum temperature **4000h**
 Operating temperature range **-40°C ~ 85°C, 5%~95%RH**
 Storage temperature range **-55°C ~ 85°C, 5%~95%RH**

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS09232B0120001	12	6~13.8	0.22	2.64	3000	94.8	56.0	0.24	60.0	38.5
DS09232B0120002	12	6~13.8	0.68	8.16	4200	132.0	77.0	0.39	96.5	46.6
DS09232B0240001	24	12~27.6	0.11	2.64	3000	94.8	56.0	0.24	60.0	38.5
DS09232B0240002	24	12~27.6	0.30	7.20	4200	132.0	77.0	0.39	96.5	46.6

Default
 RP SS AS

Optional
 CL OV CS FG RD LD PPWM VPWM TC RC





92x38 mm

Weight	230g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

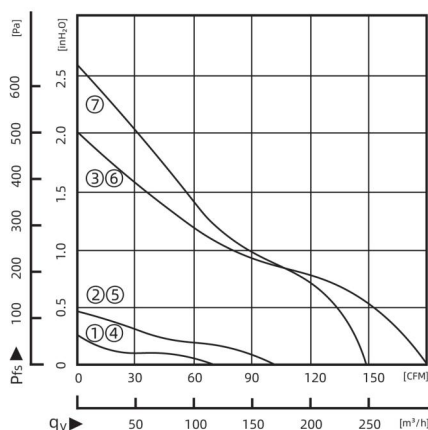
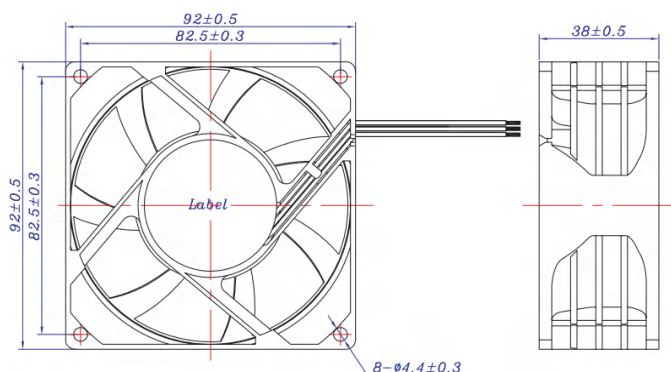
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS09238B0120001	12	6~13.8	0.50	6.00	3200	121.8	71.6	0.26	63.7	42.1
DS09238B0120002	12	6~13.8	1.00	12.00	4400	175.8	103.4	0.45	112.7	51.3
DS09238B0120003	12	6~13.8	0.36	4.32	9300	309.0	182.0	1.99	495.0	64.0
DS09238B0240001	24	12~27.6	0.28	6.72	3200	121.8	71.6	0.26	63.7	42.1
DS09238B0240002	24	12~27.6	0.10	2.40	4400	175.8	103.4	0.45	112.7	51.3
DS09238B0240003	24	12~27.6	1.80	43.20	9300	309.0	182.0	1.99	495.0	64.0
DS09238B0480001	48	36~57.6	0.55	26.40	10000	252.0	148.5	2.57	640.0	72.5

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





120x25 mm

Weight	250g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

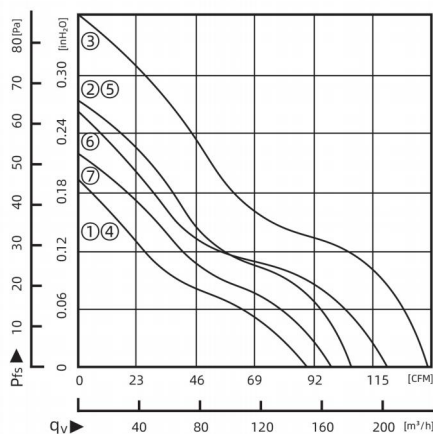
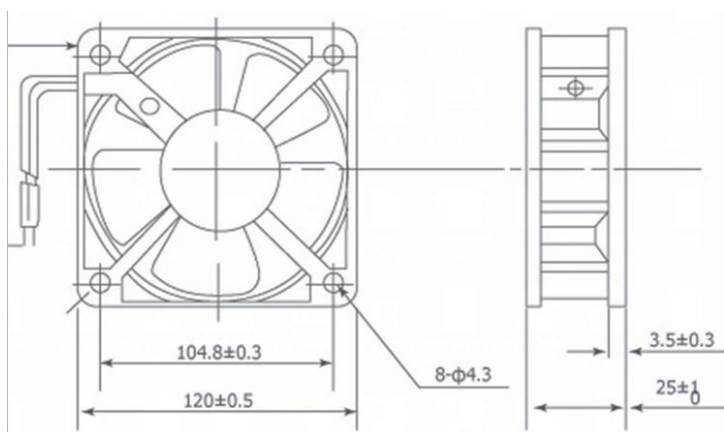
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m ³ /h]	[CFM]	[inH ₂ O]	[Pa]	[db(A)]
DS12025B0120001	12	6~13.8	0.29	3.48	2500	151.2	89.0	0.19	47.8	37.8
DS12025B0120002	12	6~13.8	0.50	6.00	3000	178.2	105.0	0.27	67.0	38.9
DS12025B0120003	12	6~13.8	0.78	9.36	3500	233.1	137.5	0.36	89.5	43.0
DS12025B0240001	24	12~27.6	0.15	3.48	2500	151.2	89.0	0.19	47.8	37.8
DS12025B0240002	24	12~27.6	0.25	6.00	3000	178.2	105.0	0.27	67.0	38.9
DS12025B0280001	28	18~32.0	0.23	6.44	3100	202.3	119.2	0.26	64.3	42.0
AS12025B2200001	220	180~245	0.04	8.80	3100	163.2	96.1	0.22	55.6	42.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC



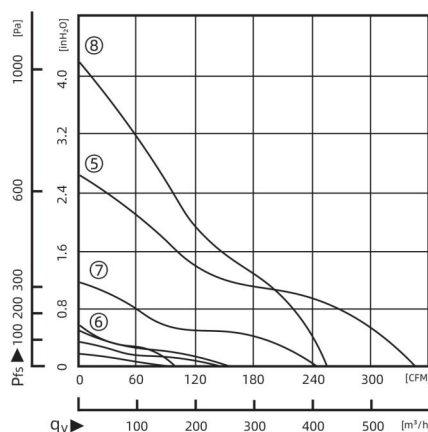
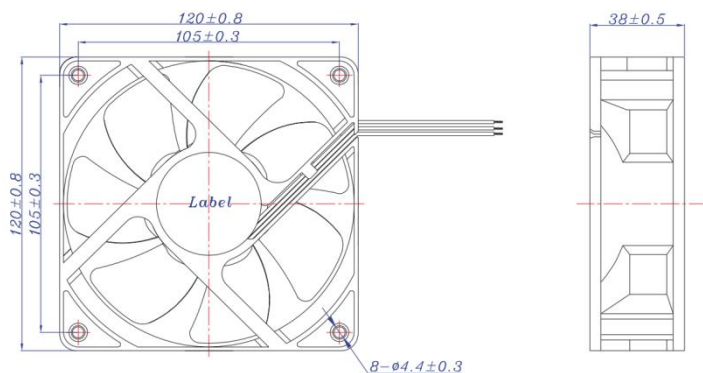


120x38 mm

Weight	480g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS12038B0120001	12	6~13.8	0.80	9.60	3700	255.6	150.7	0.53	130.8	49.0
DS12038B0240001	24	12~27.6	0.40	9.60	3700	255.6	150.7	0.53	130.8	49.0
DS12038B0240002	24	12~27.6	0.16	3.84	2500	159.6	94.2	0.21	53.5	30.0
DS12038B0240003	24	12~27.6	0.45	10.80	3500	239.4	141.0	0.38	94.6	42.0
DS12038B0240004	24	12~27.6	4.80	115.00	8000	582.6	343.2	2.68	667.6	76.0
DS12038B0480001	48	36~54.0	0.23	11.00	3800	162.0	95.0	0.65	161.0	46.0
DS12038B0480002	48	36~54.0	0.95	45.60	5200	411.6	242.3	1.24	308.5	58.0
DS12038B0480003	48	36~54.0	1.40	67.00	10000	432.0	254.0	4.21	1050.0	72.0

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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120x38 mm Customized

Weight	450g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

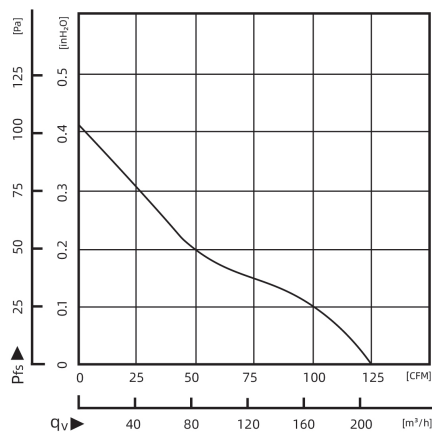
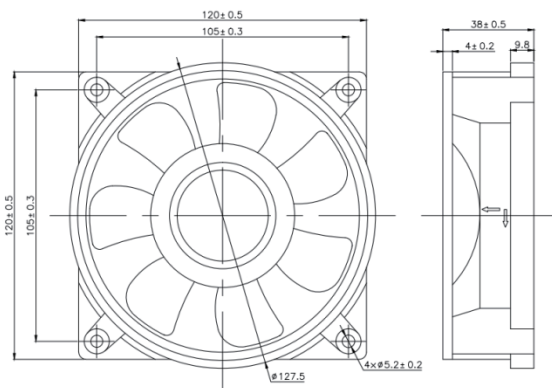
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS12038B0480010	48	36~54.0	0.18	10.0	3300	212.4	125.0	0.41	103.0	40.0
</										

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





140x51 mm

Weight	907.2g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

[illegible]

Default

RP

SS

AS

Optional

CL

OV

CS

FG

RD

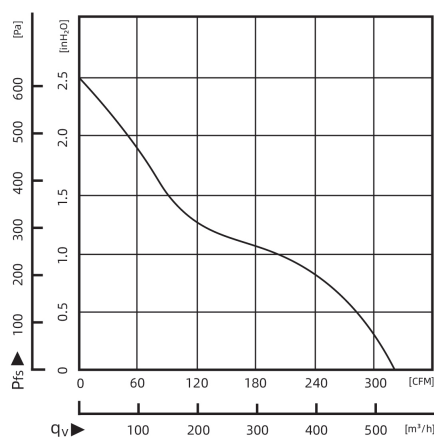
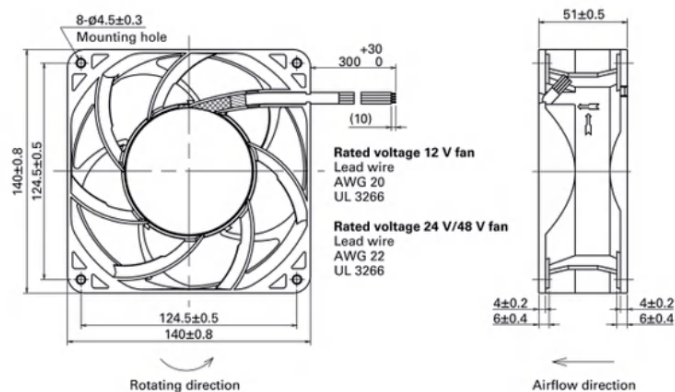
LD

PPWM

VPWM

TC

RC





172x150x38 mm

Weight	620g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

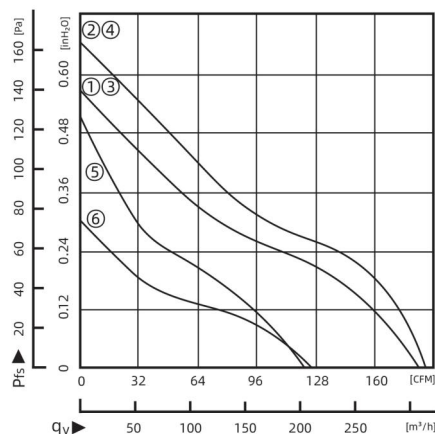
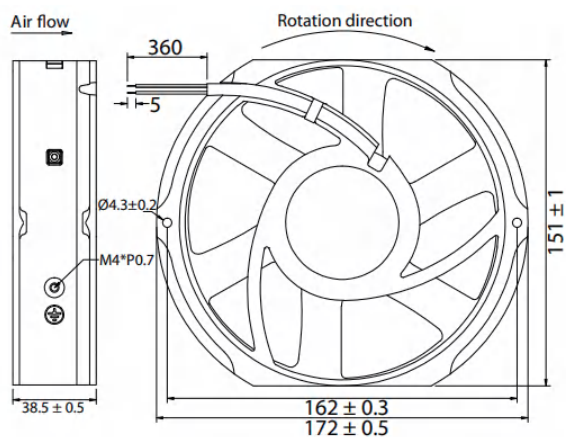
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS17238B0120001	12	6~13.8	1.10	13.2	2850	309.0	182.0	0.57	143.1	52.0
DS17238B0120002	12	5~13.8	1.82	21.8	3200	319.8	188.5	0.67	165.6	58.0
DS17238B0240001	24	12~27.6	0.55	13.2	2850	309.0	182.0	0.57	143.1	52.0
DS17238B0240002	24	12~27.6	1.10	26.4	3200	319.8	188.5	0.67	165.6	58.0
AS17238B2200001	220	180~245	0.19	41.1	2800	209.5	121.4	0.51	125.7	56.0
AS17238B2200002	220	180~245	0.21	46.2	2450	212.4	127.1	0.31	77.8	52.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





172x150x51 mm

Weight	800g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

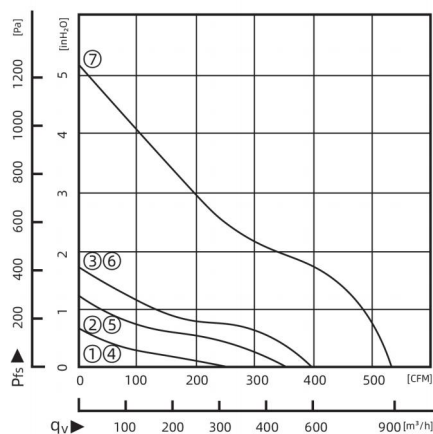
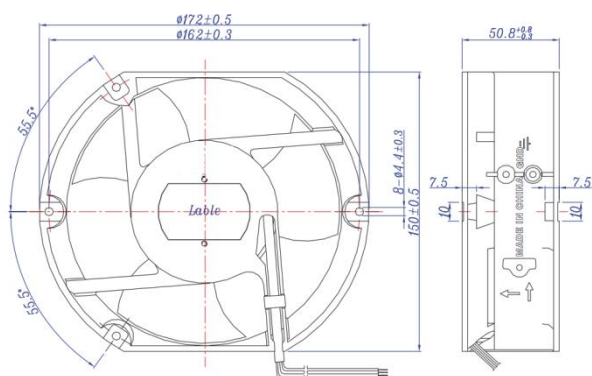
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m ³ /h]	[CFM]	[inH ₂ O]	[Pa]	[db(A)]
DS17251B0120001	12	6~13.8	1.32	15.8	3350	426.6	251.0	0.71	176.4	55.0
DS17251B0120002	12	6~13.8	4.40	52.8	4500	594.6	350.0	1.22	305.0	65.0
DS17251B0120003	12	6~13.8	6.00	72.0	5200	666.0	393.3	1.74	433.3	69.0
DS17251B0240001	24	12~27.6	0.66	15.8	3350	319.8	251.0	0.71	176.4	55.0
DS17251B0240002	24	12~27.6	2.20	52.8	4500	594.6	350.0	1.22	305.0	65.0
DS17251B0240003	24	12~27.6	3.00	72.0	5200	666.0	393.3	1.74	433.3	69.0
DS17251B0480001	48	36~57.6	3.30	158.4	7000	902.6	529.0	5.11	1284.0	115.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





220x200x51 mm

Weight **1000g**
 Storage **Ball bearing**
 Service life L10 at 40 °C **7000h**
 Service life L10 at maximum temperature **4000h**
 Operating temperature range **-40°C ~ 85°C, 5%~95%RH**
 Storage temperature range **-55°C ~ 85°C, 5%~95%RH**

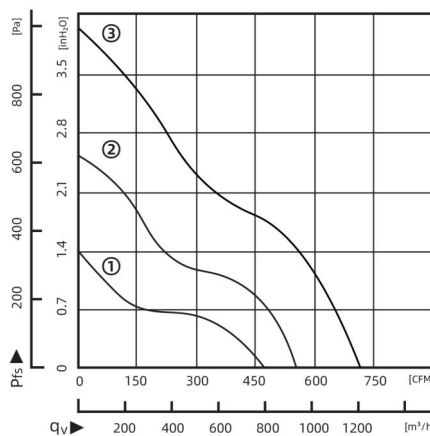
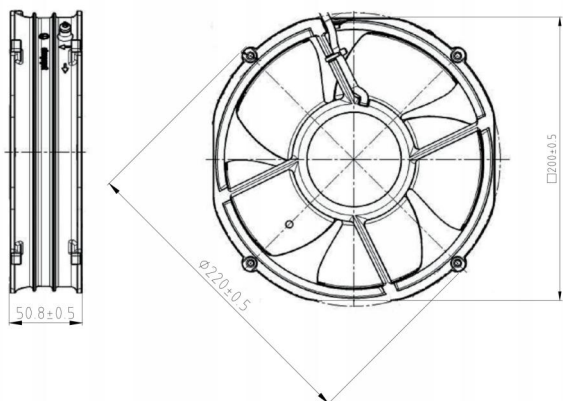
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS22051B048001	48	36~57	0.73	35	4250	790	465	1.41	350	62.0
DS22051B048002	48	36~72	1.00	48	5000	940	553	2.54	631	66.0
DS22051B042003	48	36~72	2.15	103	6500	1220	718	4.01	996	72.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC



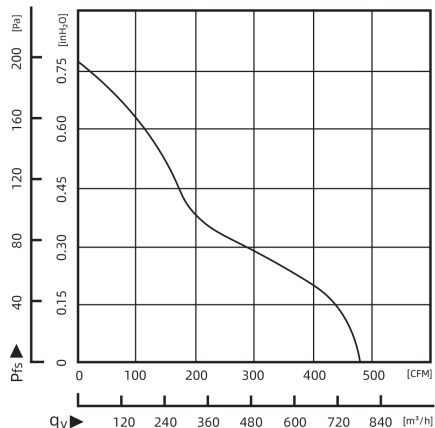
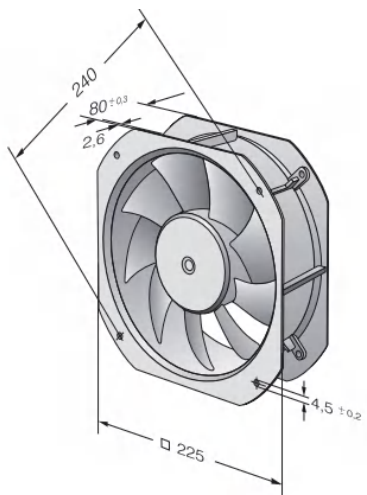


225x80 mm

Weight	2100g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS22580B0240001	24	16~28	2.29	55.0	2500	816.0	482.1	0.77	191.8	60.0
DS22580B0480001	48	36~57	69.6	69.6	2500	816.0	482.1	0.77	191.8	60.0

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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280x80 mm

Weight	2400g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

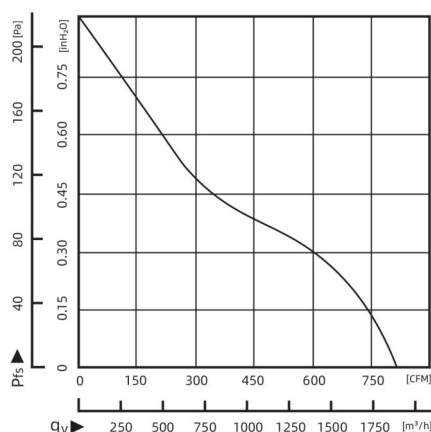
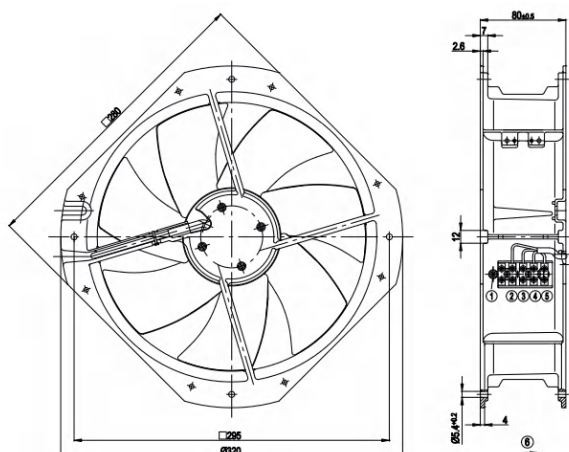
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DS28080B0240001	24	16~28	5.00	105.0	2750	1920.0	812.8	0.90	224.0	65.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC





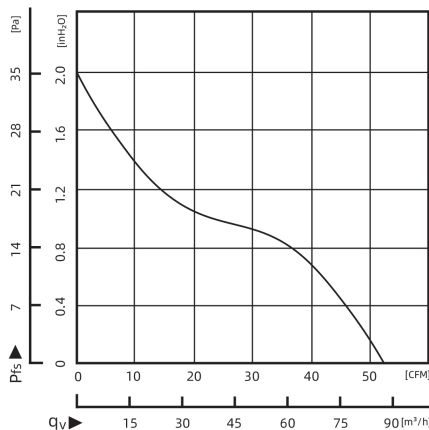
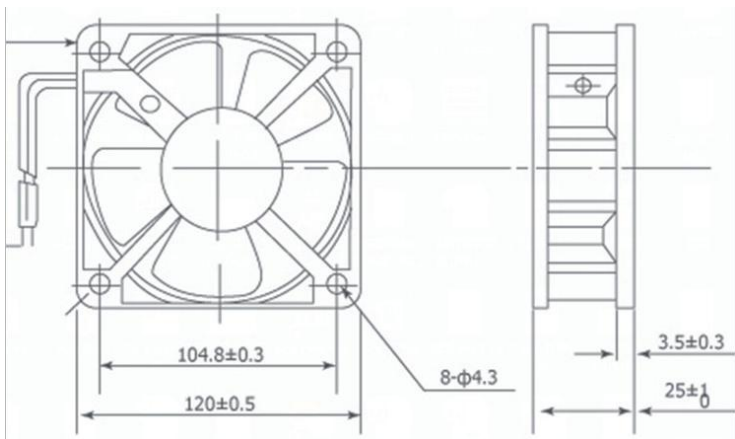
120x25 mm

Weight	330g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
AS12025B2200001	220	180~245	0.10	22.0	2400	88.2	52.0	2.05	35.0	40.0

Default	RP	SS	AS
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Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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120x38 mm

Weight

Storage

Service life L10 at 40 °C

Service life L10 at maximum temperature

Operating temperature range

Storage temperature range

530g

Ball bearing

7000h

4000h

-40°C ~ 85°C, 5%~95%RH

-55°C ~ 85°C, 5%~95%RH

[illegible]

Default

RP

SS

AS

Optional

CL

OV

CS

FG

RD

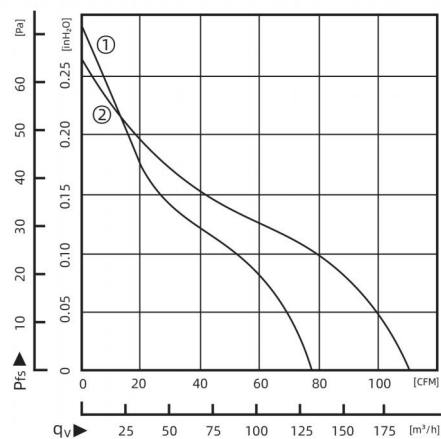
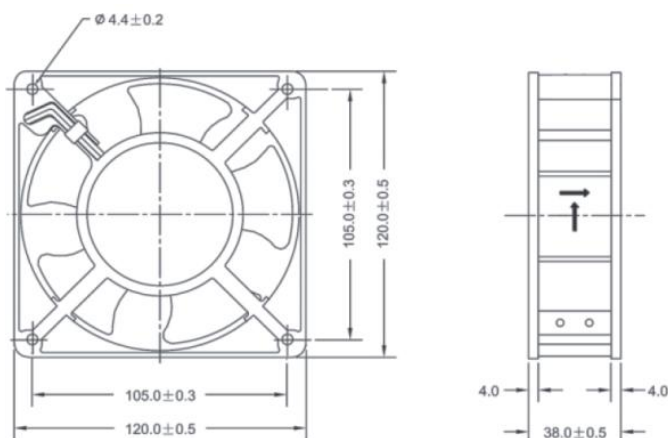
LD

PPWM

VPWM

TC

RC



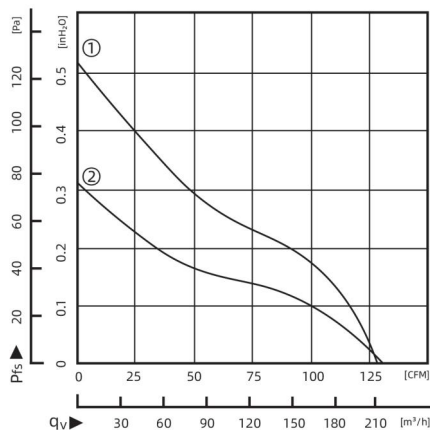
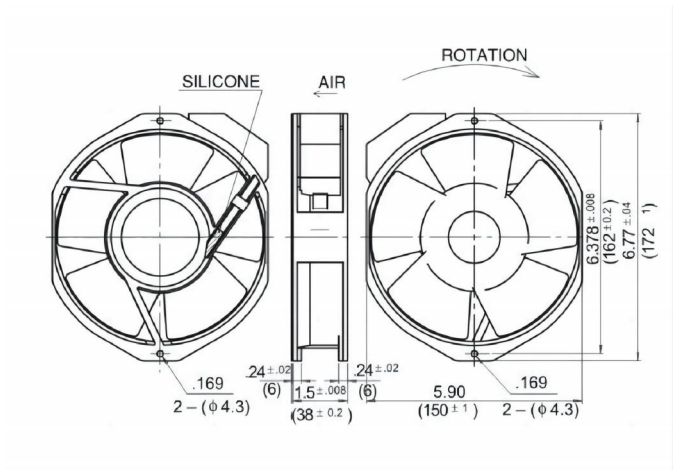


172x38 mm

Weight	760g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	
Type	[v]	[v]	[A]	[W]	[RPM]	[m ³ /h]	[CFM]	[inH ₂ O]	[Pa]	[db(A)]
AS17238B2200001	220	180~245	0.187	41.14	2800	218.9	127.4	0.52	127.8	55.0
AS17238B2200002	220	180~245	0.210	46.20	2450	223.6	129.2	0.31	77.1	51.0

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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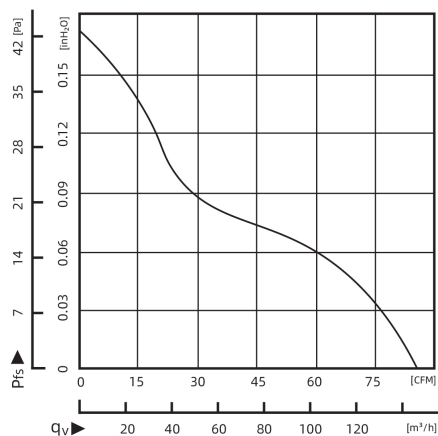
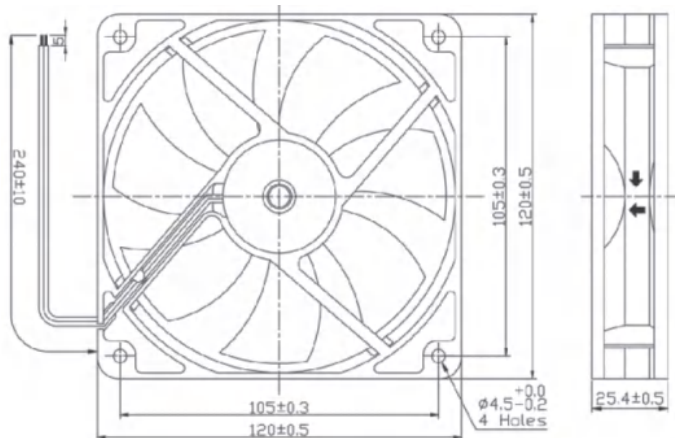


120x25 mm

Weight	330g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
ES12025B2200001	220	180~245	0.04	8.80	2400	147.6	86.9	0.17	42.3	42.0

Default				Optional										
	RP	SS	AS		CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC





混流风机系列

Mixed flow fans

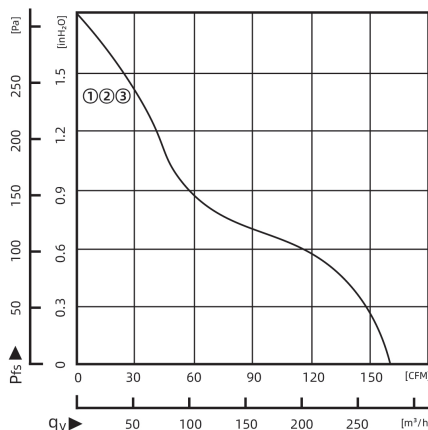
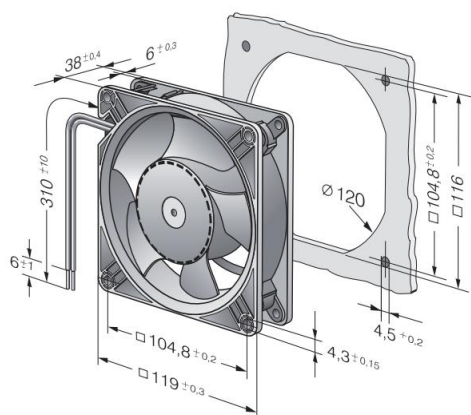


120x38 mm

Weight	375g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DM12038B0120001	12	9~15	1.75	21.0	6000	280	161.9	1.49	310	61
DM12038B0240001	24	16~30	0.85	20.5	6000	280	161.9	1.49	310	61
DM12038B0480001	48	36~60	0.42	20.0	6000	280	161.9	1.49	310	61

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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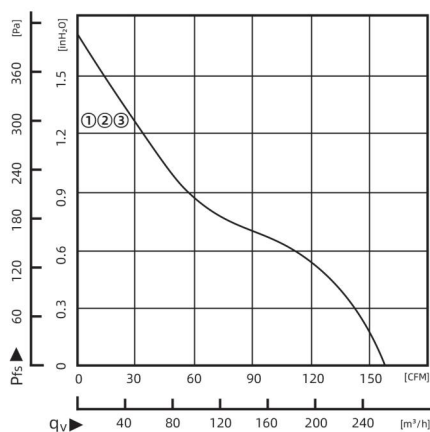
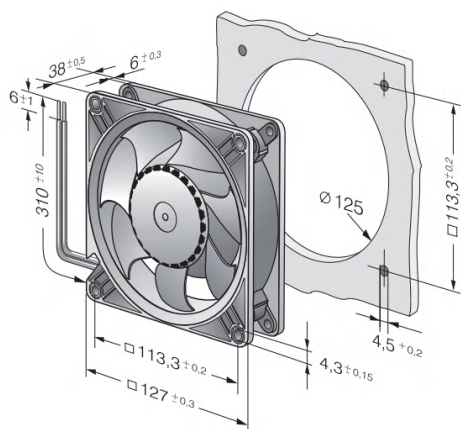


127x38 mm

Weight **490g**
 Storage **Ball bearing**
 Service life L10 at 40 °C **7000h**
 Service life L10 at maximum temperature **4000h**
 Operating temperature range **-40°C ~ 85°C, 5%~95%RH**
 Storage temperature range **-55°C ~ 85°C, 5%~95%RH**

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DM12738B0120001	12	9~15	1.75	21.0	5000	270	159	1.79	445	56
DM12738B0240001	24	16~30	0.84	20.4	5000	270	159	1.79	445	56
DM12738B0480001	48	36~60	0.39	18.5	5000	270	159	1.79	445	56

Default	RP	SS	AS							
Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC





172x150x51 mm

Weight	800g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

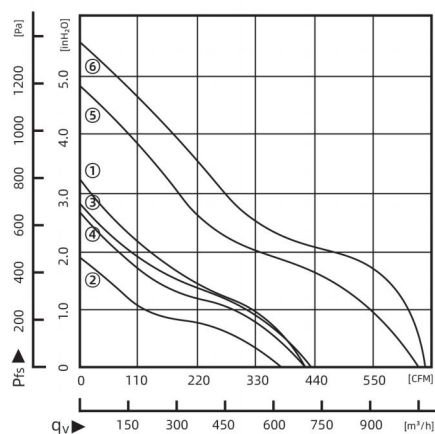
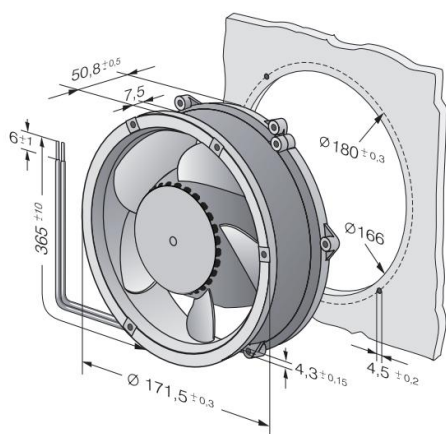
	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DM17251B0240001	24	16~36	3.80	89.0	5500	690.0	415.2	3.25	806.7	76.0
DM17251B0480001	48	36~72	7.60	75.0	4000	630.0	371.0	1.91	475.0	68.0
DM17251B0480002	48	36~72	8.00	118.0	4850	732.0	429.0	2.82	700.0	72.0
DM17251B0480003	48	36~72	7.80	89.0	5500	702.0	421.0	2.62	650.0	76.0
DM17251B0480004	48	36~72	8.70	300.0	6500	1050.0	617.0	4.83	1200.0	77.0
DM17251B0480005	48	36~72	8.90	360.0	6800	1098.0	647.0	5.63	1400.0	79.0

Default

RP SS AS

Optional

CL OV CS FG RD LD PPWM VPWM TC RC



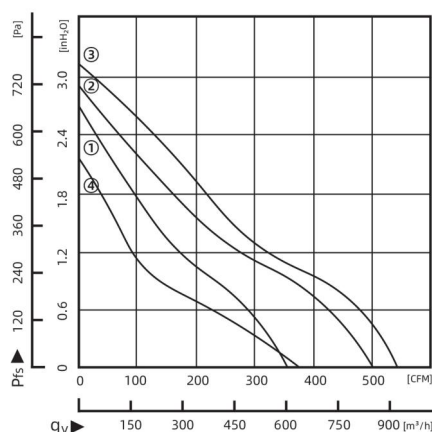
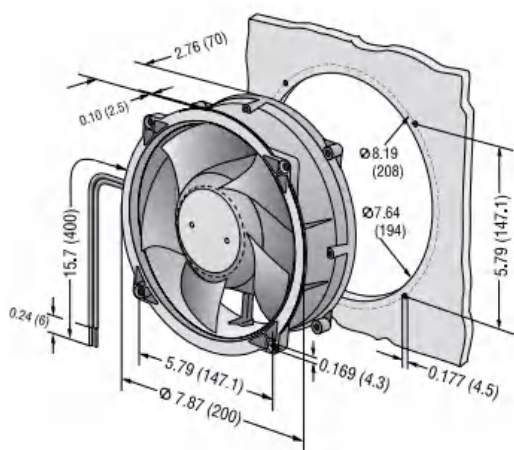


200x70 mm

Weight	1735g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

[illegible]

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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离心风机系列

Centrifugal fans



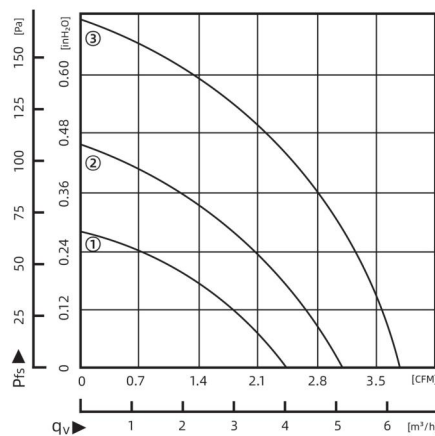
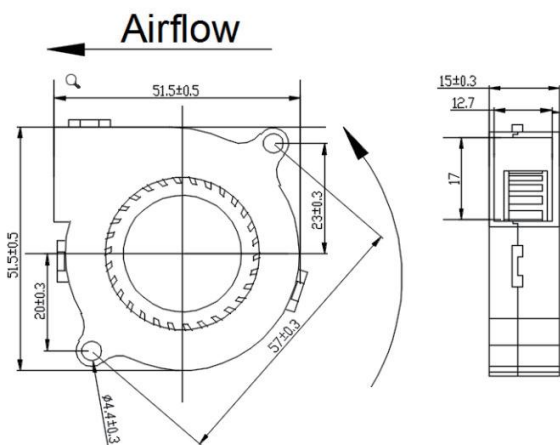
50x15 mm

Weight	30g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow			Max. static pressure	Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DC05015B0050001	5	4~6.0	0.18	0.90	3500	4.2	2.47	0.28	68.7	26.5
DC05015B0120001	12	6~13.8	0.14	1.68	4500	5.4	3.18	0.43	107.9	32.5
DC05015B0240001	24	12~27.6	0.14	3.36	5500	6.6	3.88	0.71	176.5	39.2

Default	RP	SS	AS
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Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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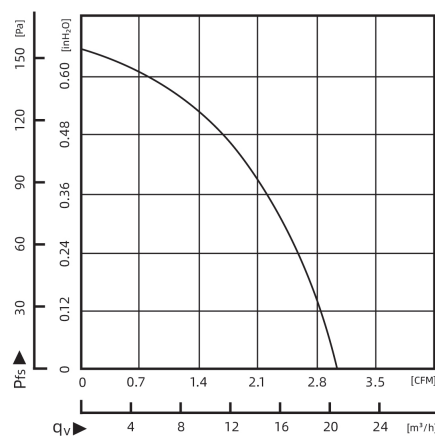
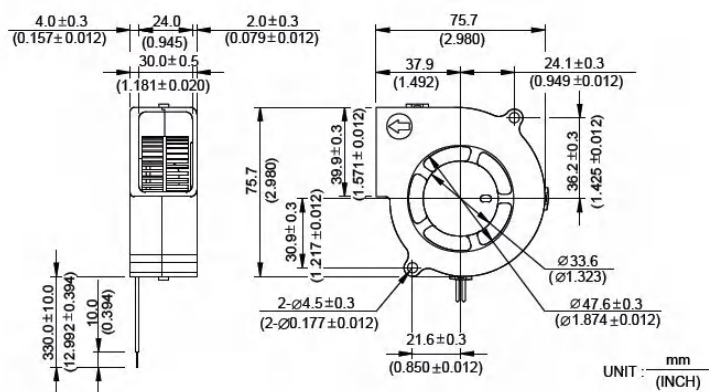


75x30 mm

Weight	77g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

[illegible]

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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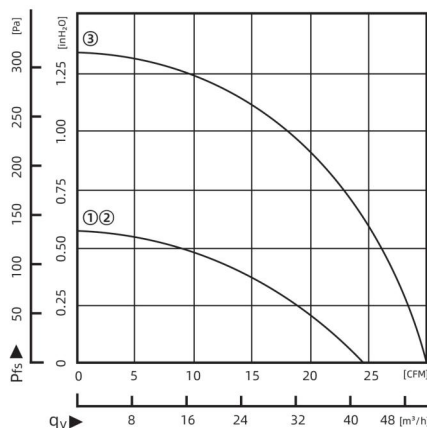
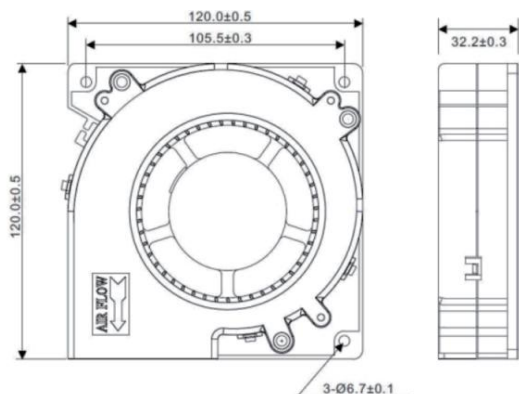


120x32 mm

Weight **240g**
 Storage **Ball bearing**
 Service life L10 at 40 °C **7000h**
 Service life L10 at maximum temperature **4000h**
 Operating temperature range **-40°C ~ 85°C, 5%~95%RH**
 Storage temperature range **-55°C ~ 85°C, 5%~95%RH**

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DC12032B0120001	12	6~13.8	0.42	5.04	2100	42.0	24.6	0.55	137.3	46.3
DC12032B0240001	24	12~27.6	0.25	6.00	2100	42.0	24.6	0.55	137.3	46.3
DC12032B0480001	48	36~54.0	0.26	12.50	3200	51.0	30.0	1.34	333.0	57.4

Default	RP	SS	AS	Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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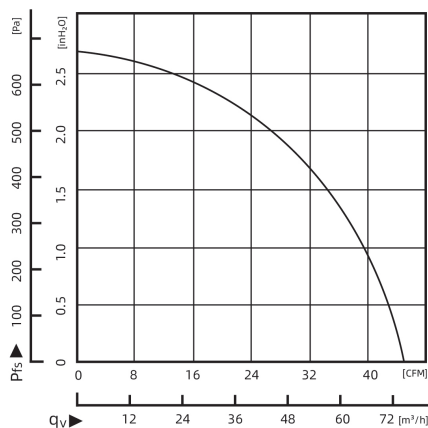
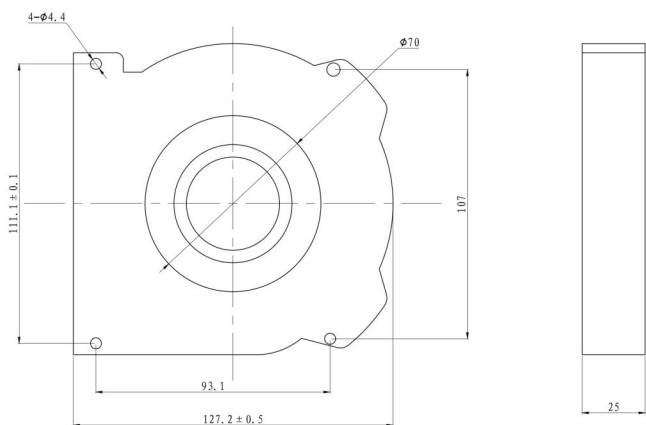
127x25 mm

Weight	1735g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[mmAq]	[Pa]	[db(A)]
DC127250480001	48	36~54.0	0.26	12.48	6200	76.46	45	68.81	675	53

Default	RP	SS	AS
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Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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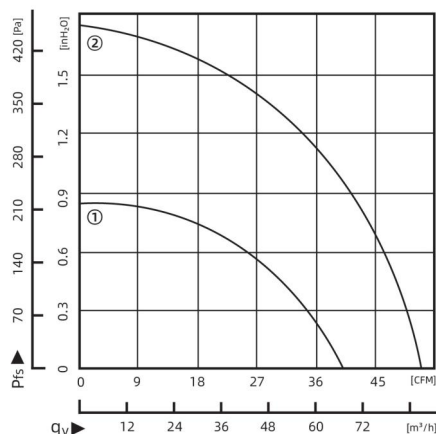
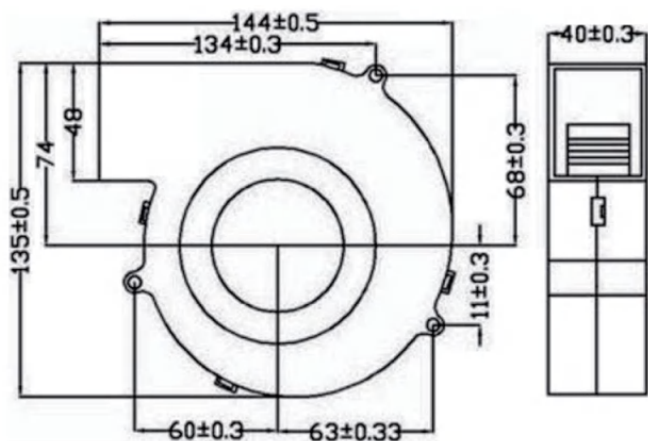
145x136x40 mm

Weight	380g
Storage	Ball bearing
Service life L10 at 40 °C	7000h
Service life L10 at maximum temperature	4000h
Operating temperature range	-40°C ~ 85°C, 5%~95%RH
Storage temperature range	-55°C ~ 85°C, 5%~95%RH

	Nominal voltage	Nominal voltage range	Nominal current	Power consumption	Speed	Max. air flow		Max. static pressure		Noise
Type	[v]	[v]	[A]	[W]	[RPM]	[m³/h]	[CFM]	[inH₂O]	[Pa]	[db(A)]
DC145400120001	12	6~13.8	1.00	12.0	2200	69.0	40.5	0.87	217.7	47.6
DC145400240001	24	12~27.6	0.92	22.0	2800	87.6	51.6	1.75	435.2	61.9

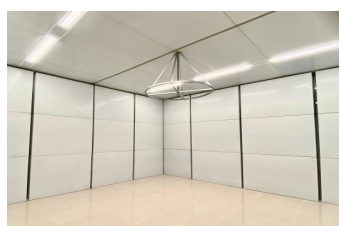
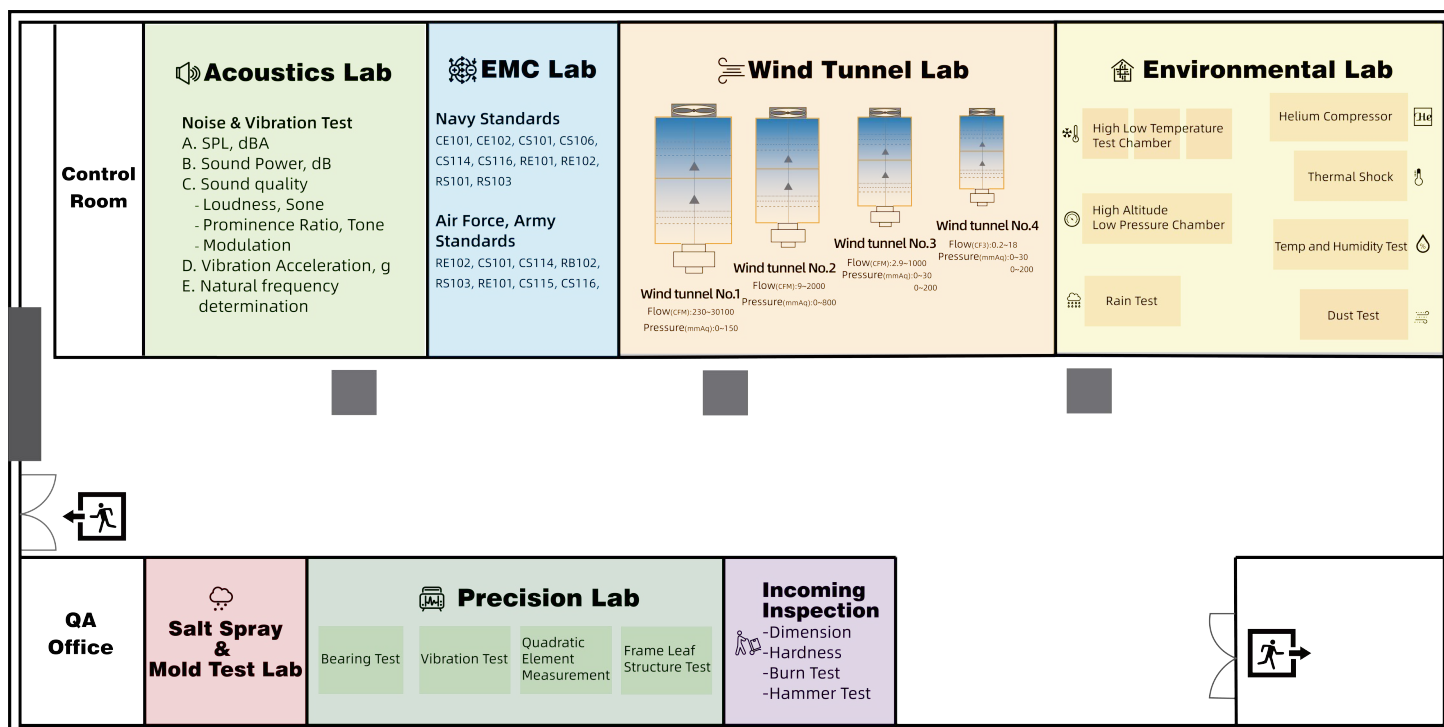
Default	RP	SS	AS
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Optional	CL	OV	CS	FG	RD	LD	PPWM	VPWM	TC	RC
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R&D and Quality Assurance 科研生产保障

- ★ Established a fan and motor R&D center with Southeast University
- ★ Jointly build an aviation fan laboratory with Nanjing University of Aeronautics and Astronautics
- ☆ 与东南大学建成风机用电机研发中心
- ☆ 与南京航空航天大学共同建设航空风机实验室



Anechoic Room



Wind Tunnel



High Altitude Low Pressure Test Chamber



Rain Test Chamber



Salt Spray Chamber



Vibration Test



Quadratic Element Measurement



Automated Electrical Testing

Product Feature 特色性能介绍

Thermal Adaptability

For the high and low temperature changes in different places of use, it meets the requirements specified in GJB150A-2009 Laboratory environmental test methods for military materiel.

温度适应性

对于不同的使用场所的高低温变化状况，符合 GJB150A-2009《军用装备实验室环境试验方法》中所规定的要求。

防霉菌要求

验证风机在湿热的条件下抗霉能力，符合 GJB150A-2009《军用装备实验室环境试验方法》中所规定的要求。

Anti-mold Requirements

To verify the fan's anti-mold ability under hot and humid conditions, it meets the requirements specified in GJB150A-2009 Laboratory environmental test methods for military materiel.

IP rating

The IP rating is composed of two numbers:
The first number indicates the level of dust proof and foreign object intrusion prevention of the electrical appliance (the foreign objects referred here include tools, human fingers, etc. should not touch the live parts of the electrical appliance to avoid electric shock).
The second number indicates the sealing level of the electrical appliance against moisture and water intrusion, and the larger the number, the higher the protection level.
The minimum IP rating of our fan products is IP22, and the protection levels IP54, IP55, and IP68 can be customized according to customer needs.

IP防护等级

IP防护等级是由两个数字所组成：

第1个数字表示电器防尘、防止外物侵入的等级（这里所指的外物含工具，人的手指等均不可接触到电器之带电部分，以免触电）。

第2个数字表示电器防湿气、防水侵入的密封等级，数字越大表示其防护等级越高。

我司风机产品防护等级最低标准为IP22，防护等级IP54、IP55、IP68可根据客户需求进行定制。

抗震性要求

对于强烈的振动、冲击和自然力学环境（暴风、巨浪、沙尘暴等）影响电子设备电性能高可靠和稳定长期工作的专业设计，符合 GJB150A-2009《军用装备实验室环境试验方法》中所规定的要求。

Anti-vibration Requirements

For strong vibration, shock and natural mechanical environment (storm, huge wave, sandstorm, etc.) that affect the electrical performance of electronic equipment, it is a professional design for high reliability and stable long-term work, in line with the provisions of GJB150A-2009 Laboratory environmental test methods for military materiel requirements.

Product Feature 特色性能介绍

Salt Spray Requirements

Use the artificially simulated salt spray environment conditions created by the salt spray test equipment to evaluate the corrosion resistance of products or metal materials, which meets the requirements specified in GJB150A-2009 Laboratory environmental test methods for military materiel.

防盐雾要求

利用盐雾试验设备所创造的人工模拟盐雾环境条件来考核产品或金属材料耐腐蚀性能，符合 GJB150A-2009《军用装备实验室环境试验方法》中所规定的要求。

绝缘等级

电机的绝缘等级(INSULATION CLASS)是指其所用绝缘材料的耐热等级，分A、E、B、F、H级。允许温升是指电动机的温度与周围环境温度相比升高的限度。

绝缘的温度等级：A级 E级 B级 F级 H级

最高允许温度(°C)：105 120 130 155 180

绕组温升限值(K)：60 75 80 100 125

性能参考温度(°C)：80 95 100 120 145

我司风机产品绝缘等级最低标准为Ins.Cl.B级，更高绝缘等级可根据客户需求进行定制。

Insulation Class (ins.cl.)

The insulation class of the motor (INSULATION CLASS) refers to the heat resistance class of the insulating material used, which is divided into A, E, B, F, and H classes. The allowable temperature rise refers to the limit of the temperature rise of the motor compared with the ambient temperature.

Insulation temperature grade:

Class A E B F H

Maximum allowable temperature (°C):

105 120 130 155 180

Winding temperature rise limit (K):

60 75 80 100 125

Performance reference temperature (°C):

80 95 100 120 145

The minimum insulation level of our fan products is Ins.Cl.B, and higher insulation levels can be customized according to customer needs.

Electromagnetic Compatibility

Electromagnetic compatibility meets the requirements specified in GJB151B-2013. Electromagnetic Compatibility EMC (Electro Magnetic Compatibility) refers to the ability of a device or system to operate in compliance with the requirements in its electromagnetic environment and not produce unbearable electromagnetic interference to any equipment in its environment. Therefore, EMC includes two requirements: on the one hand, it means that the electromagnetic interference generated by the equipment during normal operation cannot exceed a certain limit; on the other hand, it means that the equipment has a certain Degree of immunity, that is, electromagnetic susceptibility.

电磁兼容性

电磁兼容性符合GJB151B-2013中所规定的要求。电磁兼容性EMC (Electro Magnetic Compatibility) ,是指设备或系统在其电磁环境中符合要求运行并不对其环境中的任何设备产生无法忍受的电磁干扰能力。因此，EMC包括两个方面的要求：一方面是指设备在正常运行过程中对所在环境产生的电磁干扰不能超过一定的限值，另一方面是指器具对所在环境中存在的电磁干扰具有一定程度的抗扰度，即电磁敏感度。

General Performance Overview 常规性能介绍

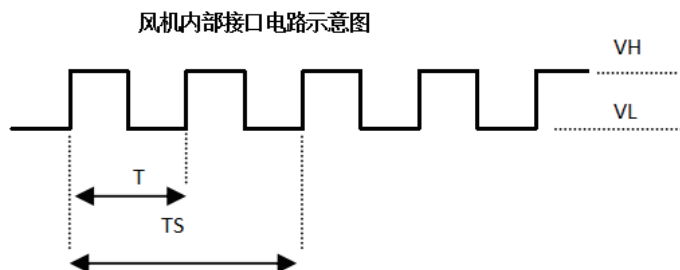
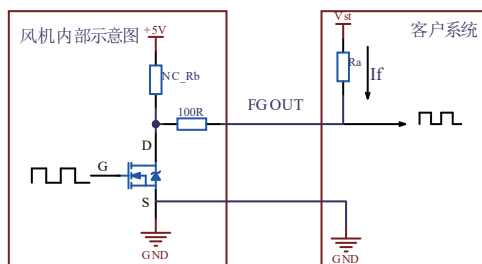
DC fans have three functions: FG (FPS) speed detection signal, RD (LSW) stall alarm signal, and PWM speed regulation signal. The FG signal is a signal that outputs a two-period rectangular wave per revolution of the fan motor to detect the rotation speed. The RD signal is a signal that outputs the state of the fan motor, and is used to detect whether the fan motor is rotating or stopped. The PWM signal is a signal input to control the speed of the fan motor, and the driver connected to the fan speed control line is used to control the fan speed by using a rectangular wave with an adjustable duty cycle. (This description is only for the single-phase fan produced by our company)

DC直流风扇功能有FG(FPS)转速侦测信号、RD (LSW) 停转报警信号、PWM调速信号三种。FG信号是风扇电机每转1圈输出2个周期矩形波的信号，检测旋转速度。RD信号是输出风扇电机状态的信号，用来检测风扇电机是旋转还是停止状态。PWM信号是输入控制风扇电机转速的信号，使用占空比可调的矩形波连接在风扇速度控制线上的驱动器来控制风扇转速。（此说明只针对我司生产的单相风机）

FG: Speed Detection 转速侦测

FG speed detection [yellow wire] The sensor outputs two complete pulse signals every time the fan rotates one circle. It is used to output to the system to detect the fan speed. Calculation formula: speed $N=60 \times \text{frequency FG} / 2 (\text{RPM})$; frequency $\text{FG}=1/T(\text{HZ})$; period $\text{TS}=60/\text{speed } N(\text{S})$.

FG转速侦测【黄色导线】风扇没转动一圈，传感器输出两个完整的脉冲信号。用以输出到系统中来检测风扇转速。计算公式:转速 $N=60 \times \text{频率FG} / 2 (\text{RPM})$ ；频率 $\text{FG}=1/T (\text{HZ})$ ；周期 $\text{TS}=60/\text{转速}N(\text{S})$ 。



FG Electrical Characteristics 电气特性				
Parameter 参数	Limit Value 限值			单位 Unit
	MIN	TYPE	MAX	
FG Pull-up Voltage 上拉电压 (Vst)	3.3	5	12	V
FG Pull-up Current 上拉电流 (If)	—	1	5	mA
FG OUT (VL)	—	If*100	—	V
FG OUT (VH)	—	Vst	—	V

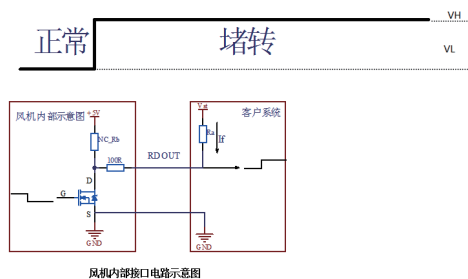
RD:Stall Alarm 停转报警

When the fan is locked by external force, the device will temporarily shut off the power to the motor, and when the locked rotor condition is released, the device will automatically restart.

When the fan is running normally, the RD signal outputs a low level, and when the fan is locked by an external force, the RD signal outputs a high level.

当风扇被外力锁住时，该装置会暂时关闭对电机的电源，当锁住的转子状况解除时，该装置会自动重启。

风机正常运行时，RD信号输出低电平，当风扇被外力锁住时，RD信号输出高电平。



RD Electrical Characteristics 电气特性

Parameter 参数	Limit Value 限值			单位 Unit
	MIN	TYPE	MAX	
RD Pull-up Voltage 上拉电压 (Vst)	3.3	5	12	V
RD Pull-up Current 上拉电流 (If)	—	1	5	mA
RD OUT (VL)	—	If*100	—	V
RD OUT (VH)	—	Vst	—	V

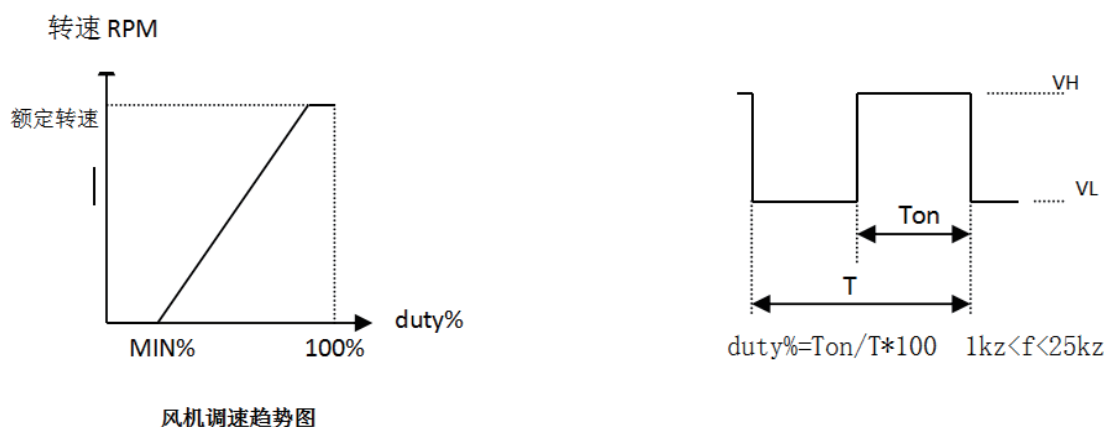
PWM:Modulation 信号调速

PWM function (Pulse-width modulation) [blue wire]

Description: PWM speed control 0-12V square wave signal, by adjusting the duty cycle of Ton, the fan starts to start when the duty cycle reaches MIN%, and the speed increases with the increase of the duty cycle. When the duty cycle is 100%, the fan speed is at full speed Rated operation. As shown in the figure below (the speed regulation signal line is suspended in the air, and the default is full speed and rated operation).

PWM功能（脉冲宽度信号调速）【蓝色导线】

说明：PWM调速0-12V方波信号，通过调整Ton的占空比调速，当占空比达到MIN%时风机开始启动，转速随占空比增加而加大，100%时风机满转速额定运行。如下图（调速信号线悬空，默认满转速额定运行）。



PWM Electrical Characteristics 电气特性				
Parameter 参数	Limit Value 限值			单位 Unit
	MIN	TYPE	MAX	
Fpwm Input Frequency 输入频率	1	10	25	KHZ
Vpwm(VL)Low Level 低电平	0	0.2	0.6	V
Vpwm(VH)High Level 高电平	2	5	12	V

Notice:

- Please be careful not to connect the sensor signal output wire with the rotation control wire of the fan incorrectly, so as not to damage the internal chip of the fan motor.
- Please note that some models do not have reverse connection protection. In case of any abnormality due to reverse connection, our company will not bear any responsibility.

注意：

- 请注意不要将传感器信号输出线和风扇的旋转控制线号接错，以免损坏风扇电机内部芯片。
- 请注意部分机型无反接保护，万一因反接而发生异常，本公司不承担任何责任。

Company Profile 公司简介

Zeiss Aerodynamics Co., Ltd. [NEO brand] is a technology company that integrates R&D, production, and sales, dedicated to fluid and turbine equipment. Based on the aviation high-tech fan technology, the company independently innovates fluid design with aerodynamics simulation, structural design with nozzle and winglet optimization, customized design with various requirements such as high voltage up to DC 900V, high frequency up to AC 400/500Hz, and lighter weight with advanced magnetic material. We are focusing on benchmarking foreign first-class high performance fan and motor products, and becoming a leader in domestically-made alternatives to independent controllable innovation.

The company is located in Fuzhong High-tech Industrial Park, Nanjing, Jiangsu, China, with a factory building of about 5,000 square meters. Since its establishment, we have relied on our technological advantages and high-quality talent team, adhering to the spirit of **"taking customer needs as our mission and product quality as our life"**, and strictly following industry standards to standardize R&D, production and service, and design and produce domestic high-quality fans. Reasonable and larger test supporting resources (including various types of wind tunnels, various types of environmental test equipment, fan special equipment and tooling), provide customers with professional and thoughtful high-quality customized services, and provide customers with more possibilities for application scenarios.

The company pays attention to personnel training, improves the professional quality of employees through multiple channels and methods, and builds an excellent team "capable of winning battles and with a good work style". The company has more than 60 employees, 70% of whom have a doctor's or master's degree. This has laid a solid foundation for the realization of high-quality products and efficient services.

NEO is committed to bringing high-performance and high-quality fluid and turbine equipment into the global ventilation, medical, air-conditioning, home appliances, automobiles, IT and other industries. In the future, we will continue to expand our core competitive advantages and let the wind work for you.

江苏流透科技有限公司（简称：NEO），是一家集研发、生产、销售于一体的致力于流体与透平设备的现代化新型企业。公司奠基于航空高科技风机技术基础之上，自主创新风机流体设计、结构设计、定转子设计以及驱动设计，采用新技术、新工艺，适应创新型热控、环控领域的新需求，为客户定制化设计、研发、制造与集成，重点对标国外一流高性能风机产品，做国产替代自主可控创新引领者。公司位于中国江苏省南京市徐庄软件园，厂房约2000多平方米。自创立以来，我们凭借技术优势与高素质的人才队伍，秉承“以客户需求为使命、视产品质量为生命”的精神，严格按照行业标准规范化研发、生产与服务，将国内优质风机设计、生产与试验配套资源（包括各型风洞、各型环境试验设备、风机专用设备及工装）合理更大化，为客户提供专业周到的高质量定制化服务，为客户的应用场景提供了更多可能。

公司注重人才培养，多渠道多方式提高员工的业务素质，打造一支“能打胜仗，作风优良”的优秀团队。公司现有员工60余人，拥有博士，硕士人员占总人数的70%。这为实现优质产品、高效服务奠定了坚实的基础。

NEO，致力于将高性能高质量流体与透平设备带入全球通风、医疗、空调、家电、汽车、IT等行业，未来将不断的扩大核心竞争优势，让风为您所用。



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