BA8060-E

BA8060H02B-E-Unintergrated

Features:

- 220 VAC rated input
- An external drive is required
- High efficiency three-phase brushless DC motor
- Environmentally friendly materials

Advantages:

- High pressure 15032 pa
- All aluminum material
- High temperature resistance
- Anti-corrosion
- waterproof
- High reliability
- Compact mini
- Low inertia

Applications:

- Vacuum system
- Air cushion machine
- Seafood transporter
- Pressure bed
- Lampblack exhaust system
- 3D Printer
- Medical equipment
- High voltage low noise applications

The TKFAN-BA8060B-E blower is equipped with a three-phase brushless DC motor and integrates high energy rare earth magnet technology to significantly improve the torque output efficiency; Frame and impeller are made of high-strength aluminum alloy, both lightweight and structural rigidity, more than 30% weight reduction than traditional steel, reduce the inertia load of equipment; Built-in high reliability ball bearing system, through precision machining and strengthening material technology, can withstand long-term high-speed operation of mechanical stress, extend the life cycle of equipment; With dust-proof and anti-corrosion treatment, to ensure stable operation in dust, wet and other complex environments.

With innovative technology and precision design at its core, TKFAN-BA8060B-E blower provides efficient and reliable airflow solutions for industrial and commercial applications. By integrating cutting-edge powertrains and optimized aerodynamics, the product achieves superior performance output in a compact volume, making it ideal for high-density Spaces and demanding environments.

AC brushless blower

1 .Technical Data

Electrical	Unit	Value
Dimension	[Mm]	86X83X68
Voltage Range	[V_{AC}]	220
Rated Voltage	[V_{AC}]	180 to 240
Rated Current	[A]	0.9
Rated Power	[W]	138
Rated Speed	[rpm/min]	45000
Static Pressure (When Air Flow= 0)	[Pa]	15032
Air Flow (In Free Air)	[l/min]	653.9

Environmental

Ambient temperature(operating)	[°C]	-40 to 60
Ambient temperature(storage)	[°C]	-40 to 60
Relative humidity(noncondensing)	[% RH]	10 to 85
Waterproof level		IP68
Maximumoxygen concentration	[%]	N/A

Motor

Type		Brushless direct current motor
Winding insulation class		F, 155 °C
NTC type		N/A

Lifetime

L10 at 25 °C ambient temperature	[h]	10000

Noise

Sound pressure level	[dB-A]	88.7

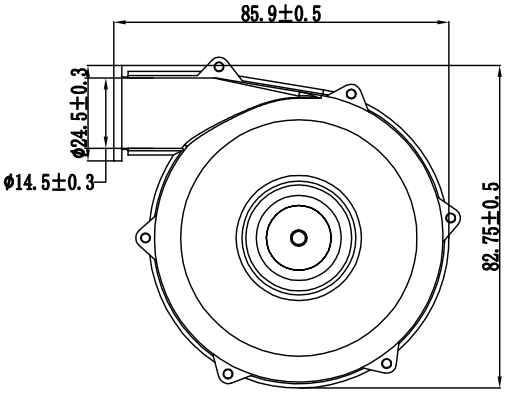
Mechanical

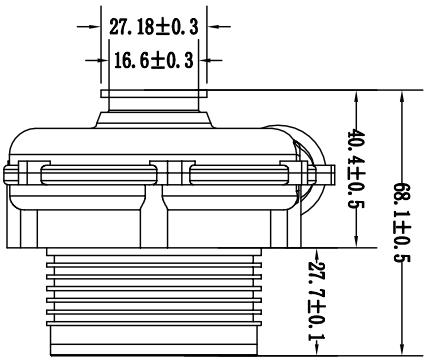
Blower weight	[g]	626.5

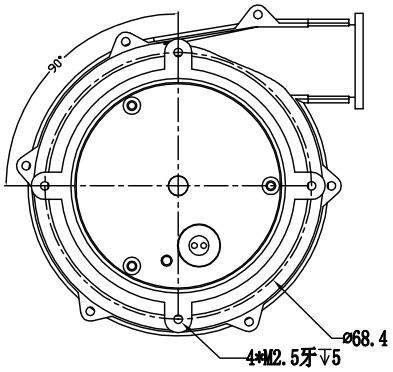
TKFAN®

Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

2 .Mechanical Structure Diagram

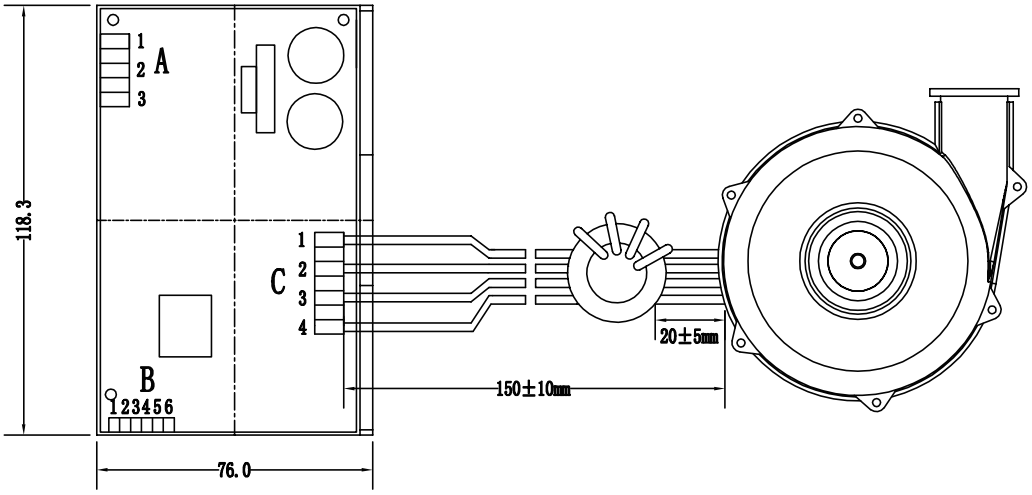






Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

3. Electrical Connection Diagram

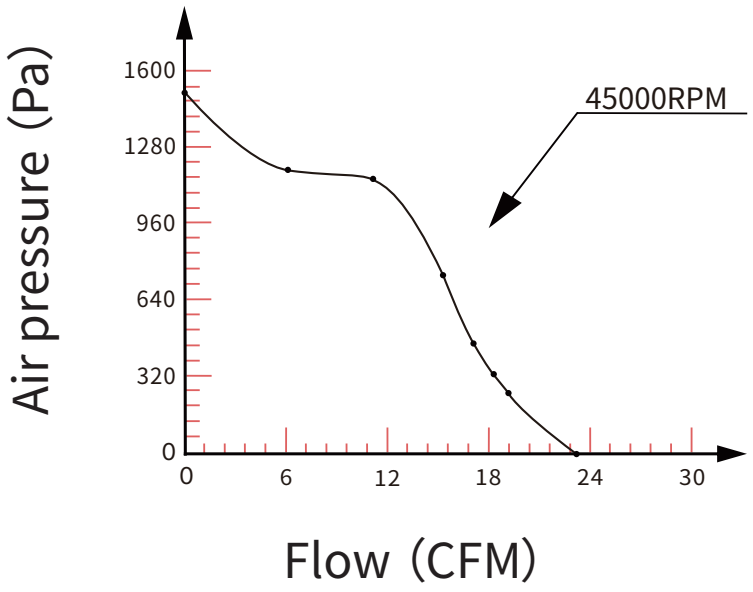


Wire model	Wire Number	Colour	Function
A UL1332 #20AWG OR	1	PE	
	2	Red	ACL
	3	White	ACN
B UL3239 #24AWG OR	1		+5V
	2		VSP
	3		SGND
	4		EN
	5		NC
	6		FG
C UL3132 #18AWG OR	1	BLack	MG
	2	Yellow	U
	3	Blue	V
	4	White	W

Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

4 .P-Q Data and Curve

4.1 PQ Curve



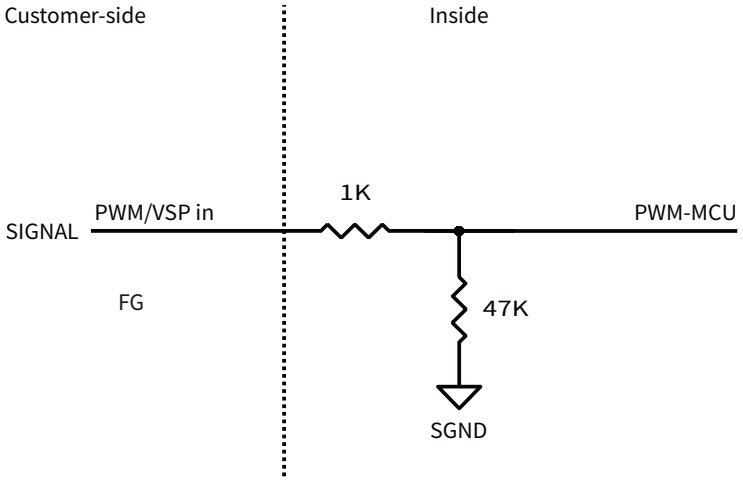
4.2 PQ Data

NO.	mmAq	CFM	A	Watt
1	1503.2	0.01		
2	1373.65	6.14		
3	1134.10	10.97		
4	743.26	15.67		
5	462.64	16.96		
6	330.24	18.33		
7	252.29	19.34		
8	0	23.05		

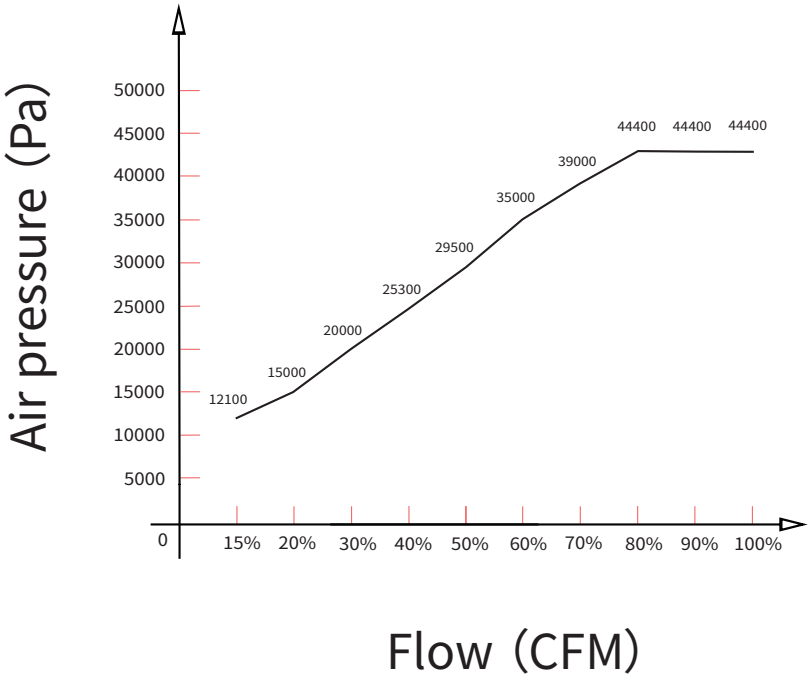
Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

5. PWM Curve

5.1 PWM Connecting Diagram



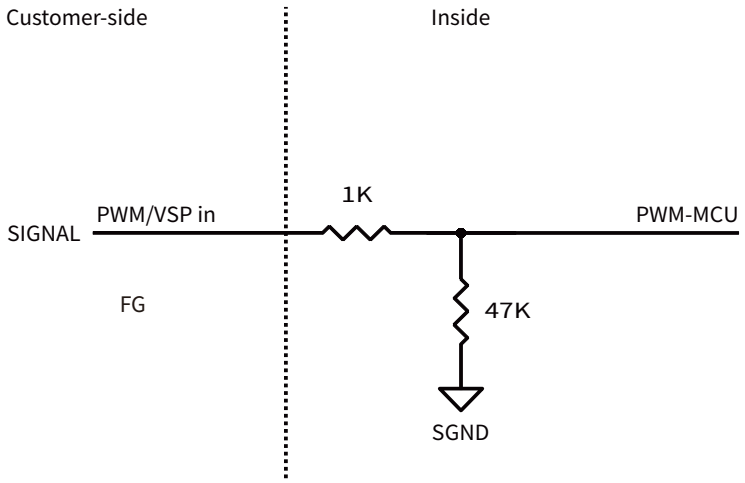
5.2 PWM data curve



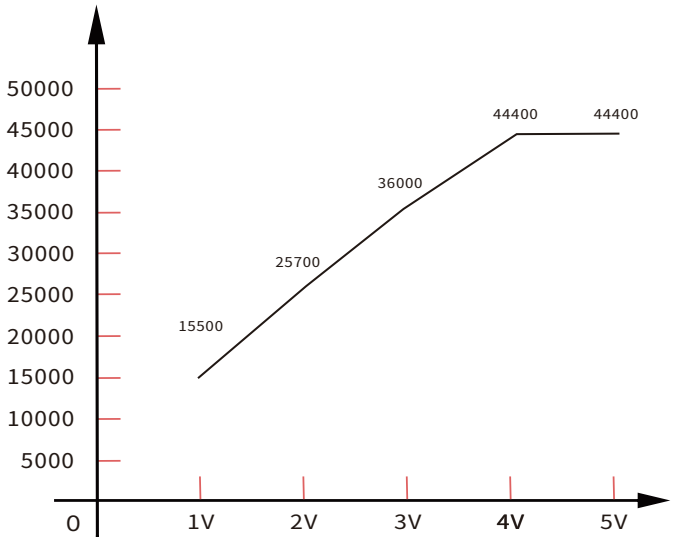
Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

6. 6. 0-5V Speed Control

6.1 5V Connetcting Diagram



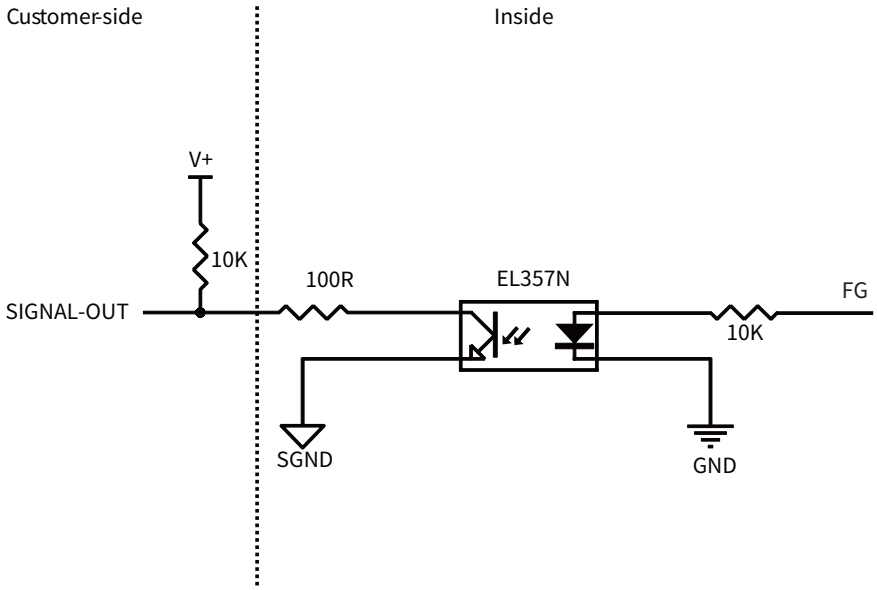
6.2 0-5V data curve



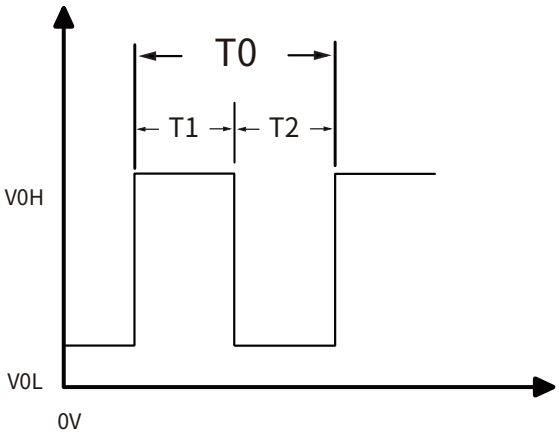
Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

7 . FG Speed Feedback Diagram

7.1 Signal output diagram



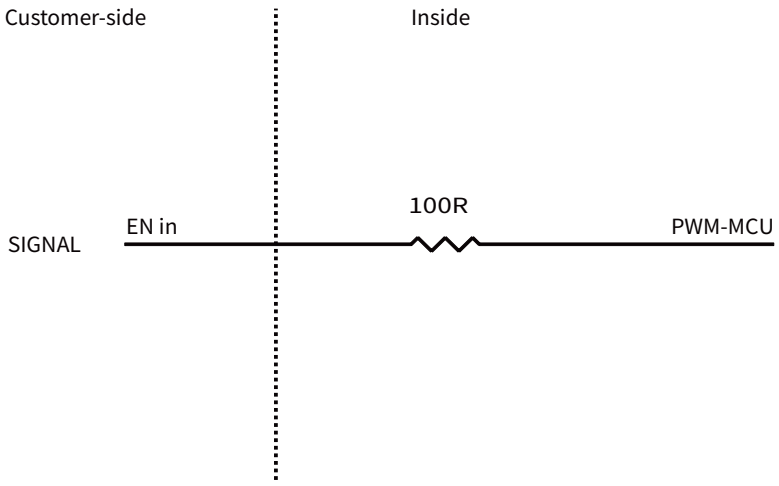
7.2 Rotational speed frequency



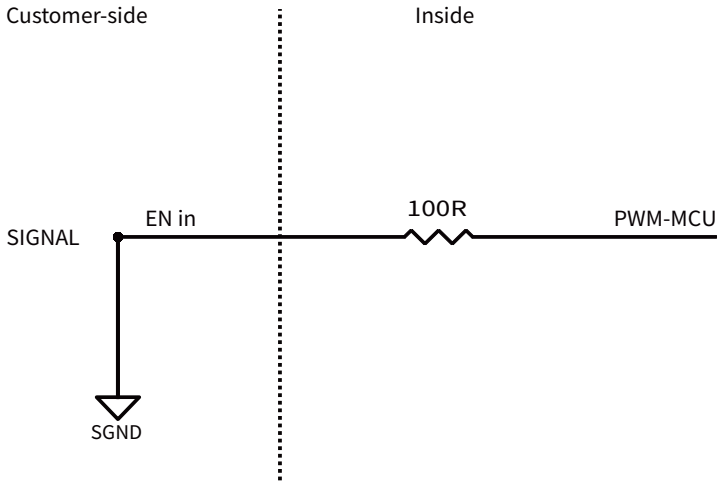
Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

8 . The EN signal controls the operation

8.1 Blower control is available when EN in is high level or disconnected



8.2 Blower will be stop working when EN signal in is low level



Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

9. Temperature Test Report

NC

Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453

www.tkfan.com

10. Related Products

Model	Dimension	Voltage	RPM	Air Flow	Air Pressure	Watt

Floor 5,Building C,Jinxiongda industry park,guanlan street,Shenzhen • PostCode:518110 • Email:sales@tenkai-group.com • Phone:0086-0755-23126453
www.tkfan.com

TAKE A CLOSER LOOK

TK FAN solutions for a wide variety of applications, including medical, automation, packaging, industrial, aerospace and defense are only a click away. Visit our worldwide web site for more information.

For product information, vis **www.tkfan.com**
For more information or the office nearest you,contact us online, **sales@tenkai-group.com**
However, to ensure that you can smoothly find the relevant person in charge and receive timely reception, it is recommended that you make an appointment in advance by phone or email.