

Specifications

EC Axial Fan

Model : BY2EC400

Type : 102/050-1PSPE

Coding :

Version: V1.0

Date : 2025.08.07

Version	Status	Version update instructions	Date	DRN BY	CHK BY
V1.0	Effective	Initial release	2025-08-07	XQ. Chen	L. Hua

Introduction

Emphasizing on energy saving, environmental protection, and high efficiency, our company absorbed advanced technology in home and abroad to research and develop a new generation of EC series Fan motors that was based on our years-long experience manufacturing traditional AC series Fan Motors. The new product has improved working efficiency greatly and is ideal for air- conditioning, purification, and refrigeration industries.

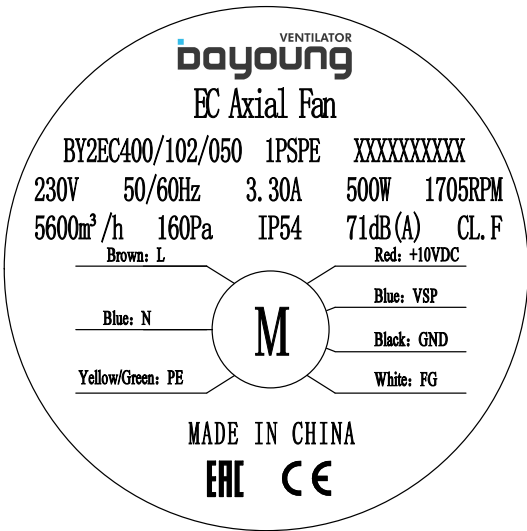
Standards

- JB-T10562 Technical specification for general purposes axial fans
- GB/T 14711 General safety requirements for Medium and small rotary motor
- GB755/IEC60034-1 rotary motor quota and performance
- The level of balance is in accordance with ISO 1940, G4.0
- Vibration testing and velocity is performed according to JB/T8689.
- This product is certified by China CCC and EU CE
- ISO 9001 quality system certification

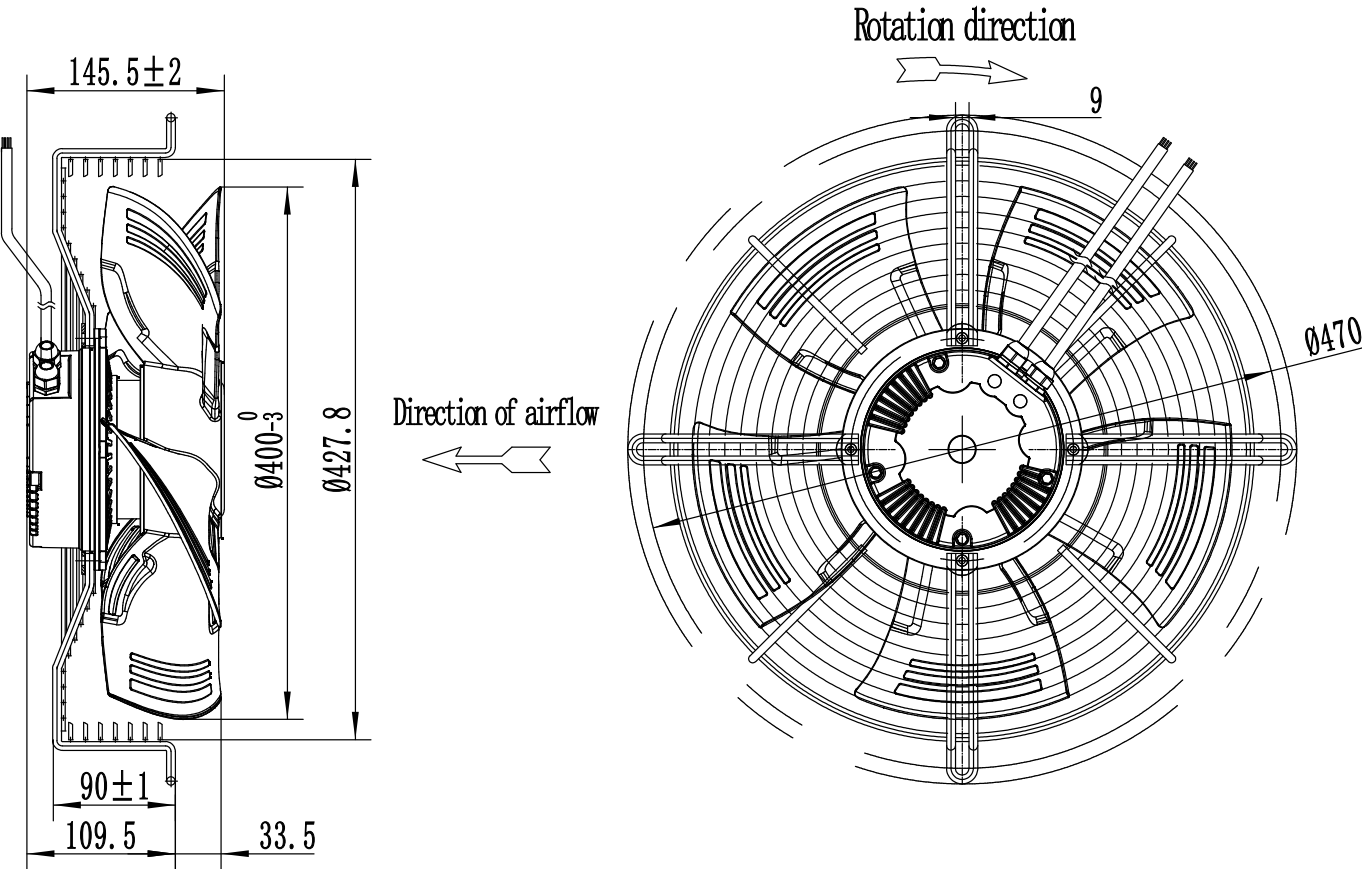
Technical Parameters

Power supply	Phase	1
Frequency	Hz	50/60
Input Voltage	VAC	200~240
Input Current	A	3.30
Input Power	W	500
Rated Speed	r/min	1705
Fan Noise	dB(A)	71
Fan Steering		Counterclockwise(From the motor)
Fan Life	h	40000
Fan Weight	kg	-
Protection Level		IP54
Insulation Class		F
Balance Level		G4.0
Ambient Temperature	℃	-25~+60
Environment Humidity		≤90%RH
Impeller material		PP
Spray color		-
Operating Status		S1

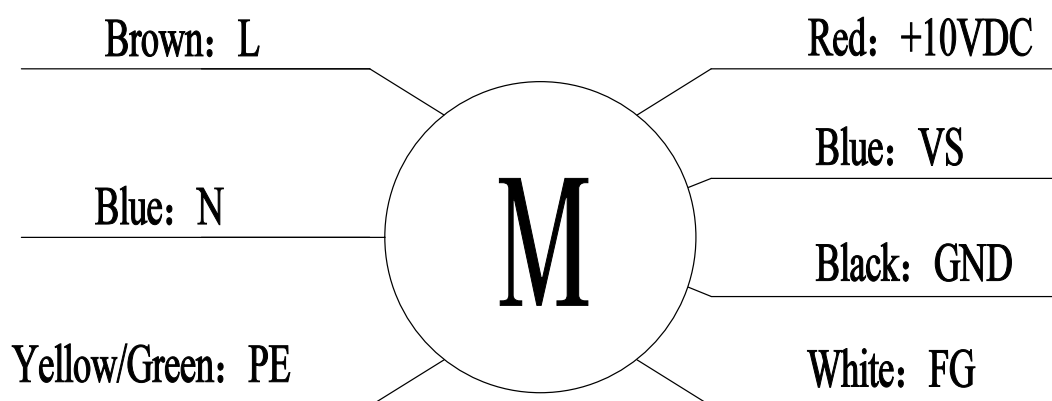
Label



Product Drawings



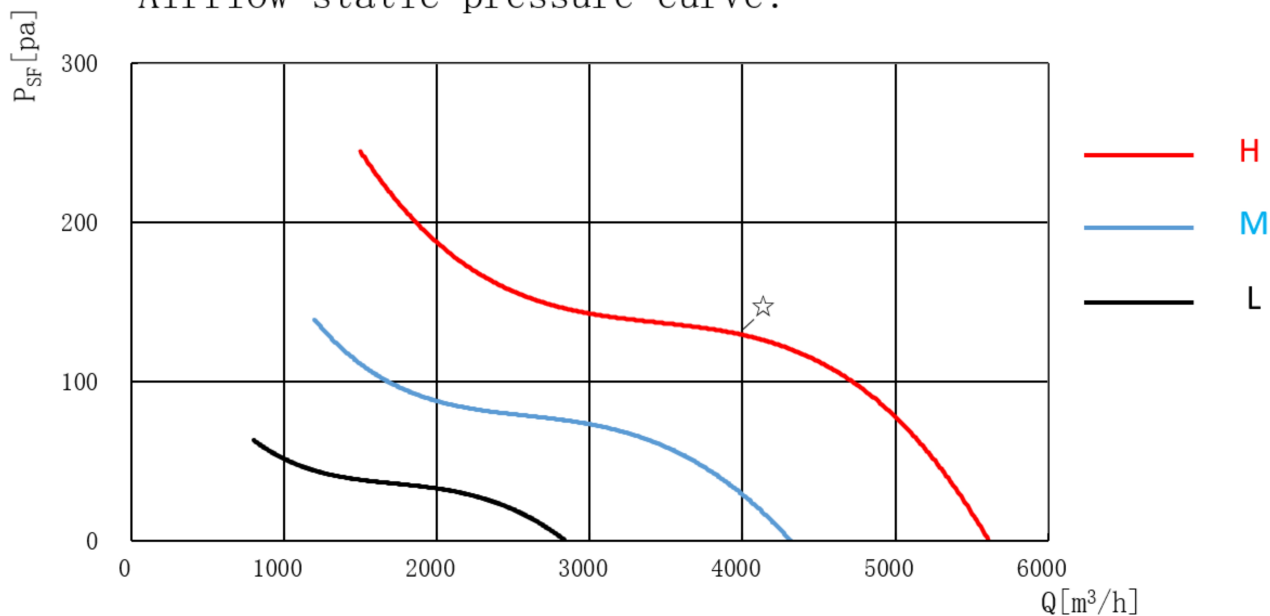
Terminal description



Lead wire	Port	Description
Brown	L	Power supply 230 VAC, 50-60 Hz
Blue	N	Neutral conductor
Yellow/Green	PE	Protective earth
Red	10V	Voltage output 10 VVDC
Blue	VSP	Control input 0-10V or PWM
Black	GND	GND connection of control interface
White	FG	Tach output: Open collector, 2 pulse per revolution electrically isolated

Product Performance

Airflow-static pressure curve:



☆: $\eta=32.96\%$ $N=41.18$ (With VSD)

St. P.	Air Flow	Speed	Voltage	Freq.	Power
Pa	m3/h	RPM	V	Hz	W
H					
1	5606	1705	230	50	435
77	5000	1705	230	50	481
134	4001	1705	230	50	500
181	2001	1705	230	50	495
M					
0	4321	1310	230	50	191
34	3901	1310	230	50	200
74	3200	1310	230	50	216
100	1601	1310	230	50	210
L					
0	2834	880	230	50	64
16	2600	880	230	50	69
30	2200	880	230	50	69
64	800	880	230	50	77