

# Specifications

## EC Axial Fan

Model : BY6EC500

Type : 138/IV-3PSPE

Coding :

Version: V1.0

Date : 2022.08.18

Version	Status	Version update instructions	Date	DRN BY	CHK BY
V1.0	Effective	Initial release	2022-08-18	XQ. Chen	L. Hua

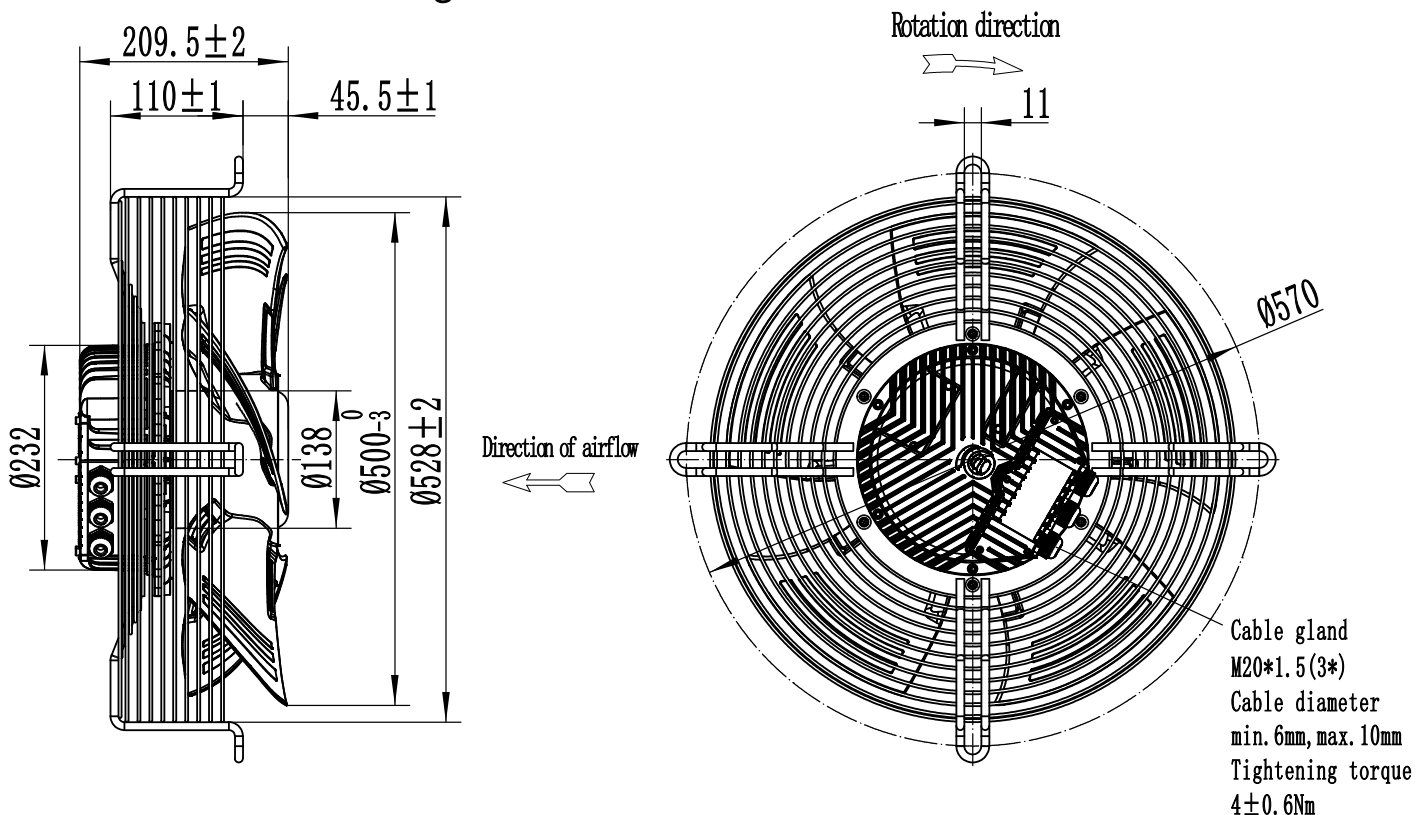
## Introduction

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
- EN60335 Safety of household and similar electrical appliances
- 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

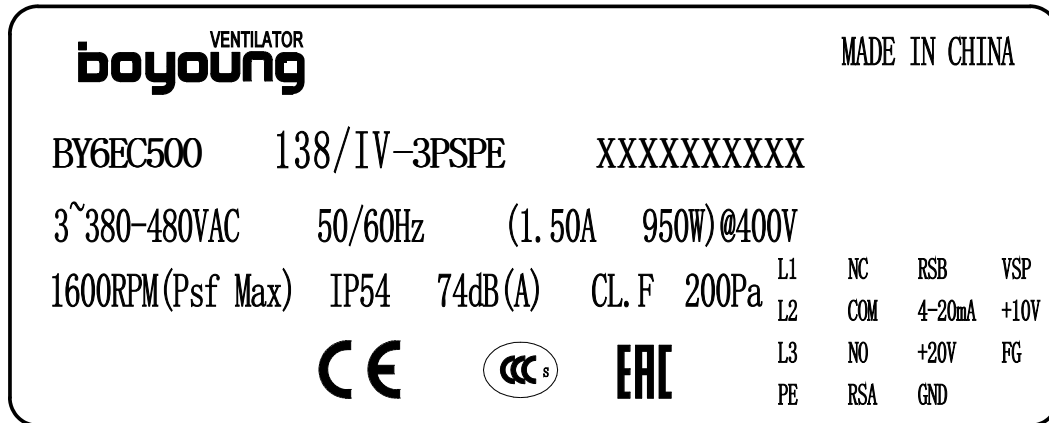
## Product Drawings



## Technical Parameters

Power supply	Phase	3
Frequency	Hz	50/60
Input Voltage	VAC	380~480
Input Current	A	1.50
Input Power	W	950
Rated Speed	r/min	1600
Fan Noise	dB(A)	74
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

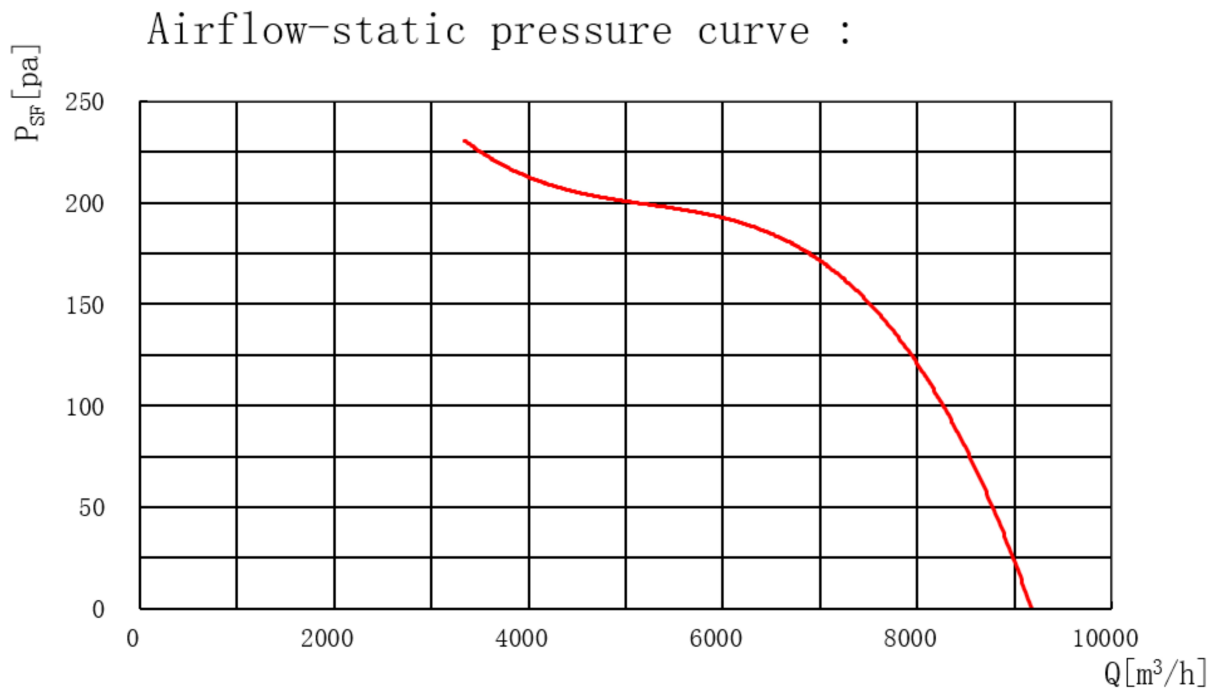
## Label



## Terminal description

Port	description
L1	
L2	three phase AC input(power)
L3	
PE	Ground wire
FG	Speed feedback signal output
10V	External output 10V
VSP	Speed control signal 0-10V input, Input 10V with maximum speed
GND	Reference Ground
20V	External output 20VDC
4-20mA	External sensor(e.g.pressure sensor)with 4-20mA output
RSA	MODBUS RTU RS485
RSB	MODBUS RTU RS485
NO	Floating status message contact:close with error
COM	Floating status message contact:common connection contact rating 250VAC/2A
NC	Floating status message contact:break with error

## Product Performance



St. P.	Air Flow	Speed	Voltage	Power
Pa	m <sup>3</sup> /h	RPM	V	W
0	9177	1600	400	772
29	8942	1600	400	812
59	8697	1600	400	850
87	8468	1600	400	887
115	7986	1600	400	902
144	7605	1600	400	927
174	7054	1600	400	953
203	4643	1600	400	915
231	3342	1600	400	974