

PRODUCT  
SPECIFICATION

FAN TYPE: Axial Fan with Guard Grille  
MODEL: G3E-3A450-A2-01  
VERSION: A/0

EDITOR: Sam  
REVIEWER: Asta  
APPROVER: Peter

CUSTOMER:  
CONFIRMATION:  
DATE:

Description of Revision

Version No.	Notes	Reason Content	Revised by	Date
A/0	/	/	Sam	2023/7/6

**I . GENERAL SPECIFICATION**

CONTENT		SPECIFICATION
1	Motor Type	EC Brushless External Rotor Motor
2	Rated Voltage	220VAC
3	Frequency	50/60Hz
4	Operating Voltage	200-277VAC
5	Current	2.0A±16%
6	Power Input	420W±16%
7	Speed	1590RPM±10%
8	Max. Airflow	6560m <sup>3</sup> /h
9	Max. Static Pressure	230Pa
10	Noise Level	68±6dBA
11	Operation Mode	S1
12	Rotating Direction	CCW, seen on rotor
13	Mounting Position	Vertical/Side/Ceiling

**II . PARTS SPECIFICATION**

PARTS		SPECIFICATION
1	Blades	Cold Rolled Steel
2	Guard Grille	Wire Steel, Coated Black
3	Bearing	Ball Bearing
4	Leda Wire	1500±20mm

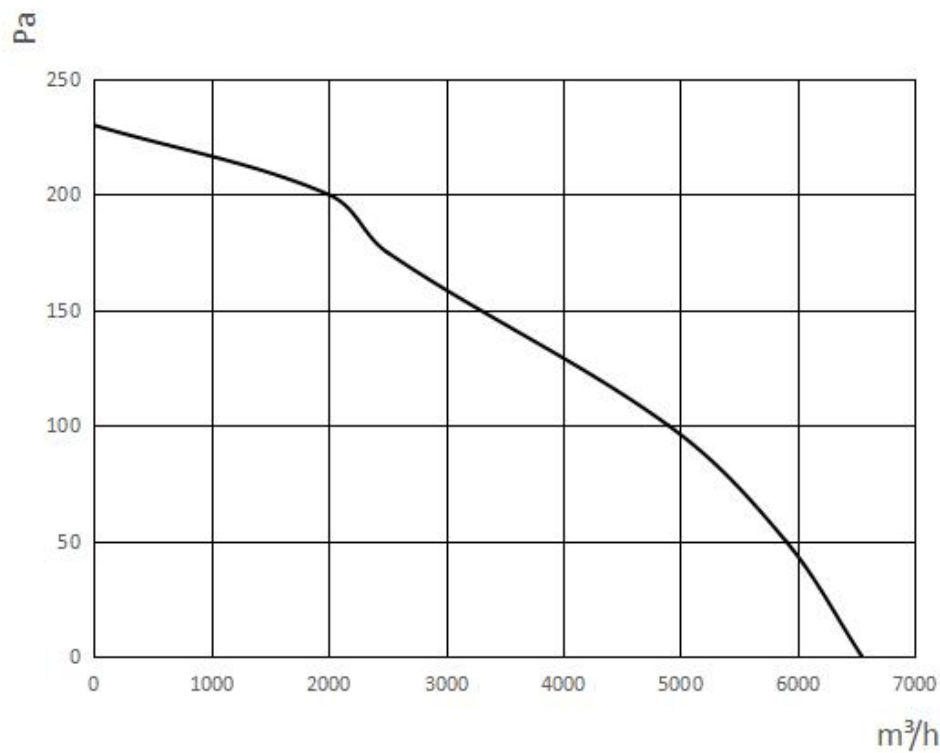
**III. ENVIRONMENTAL SPECIFICATION**

CONTENT		SPECIFICATION
1	Operating Temperature	-20°C~+60°C
2	Operating Humidity	30%~95% RH
3	Storage Temperature	-25°C~+60°C
4	Storage Humidity	30%~95% RH
5	Insulation	Class "B"
6	Lifespan(L <sub>10</sub> )	40,000 hours
7	Protection Type	IP44

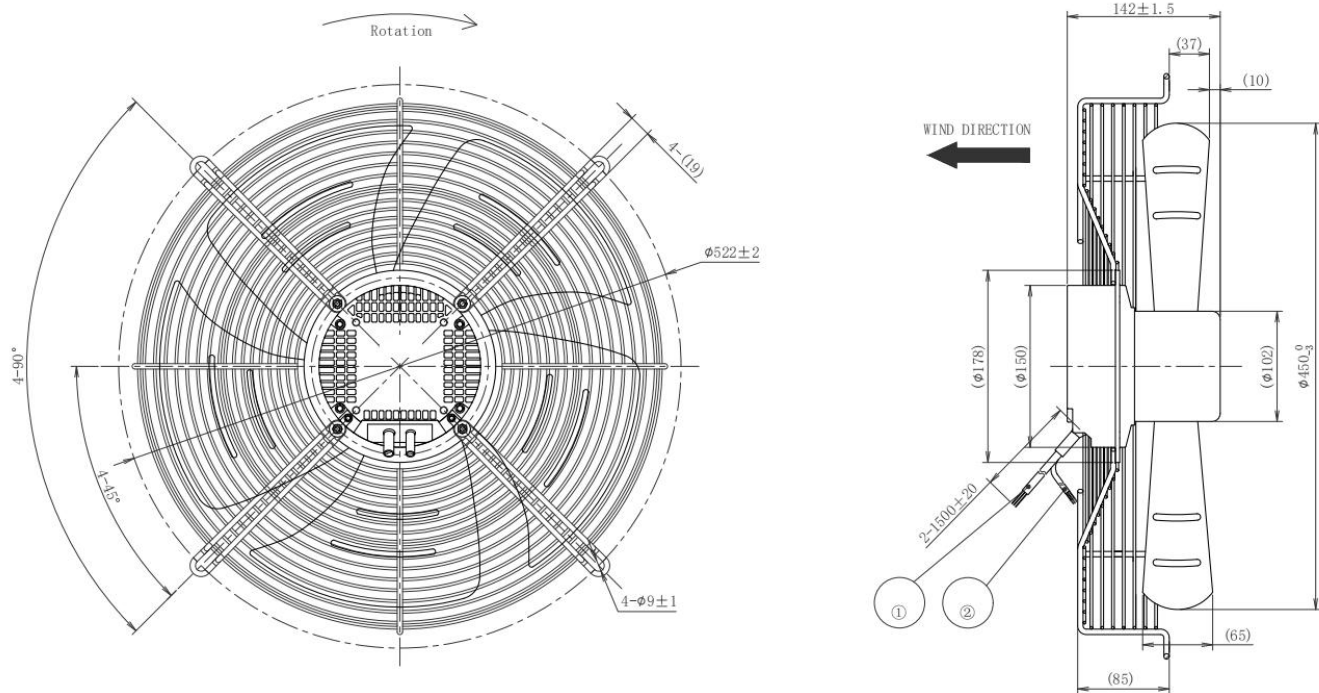
**IV. ELECTRICAL SPECIFICATION**

- 1 Locked-rotor Protection;
- 2 Thermal Protection;
- 3 Limit Current Protection.

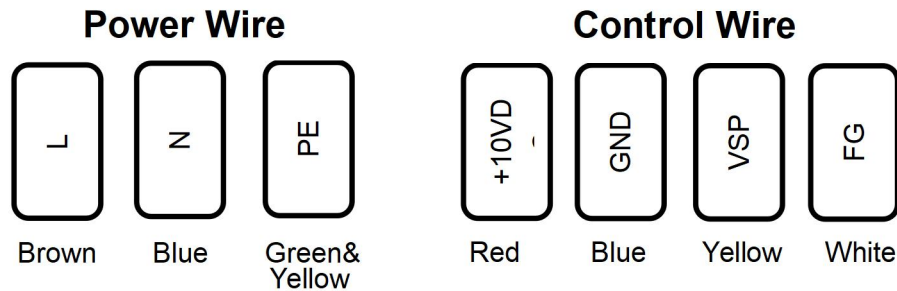
V. PERFORMANCE CURVE



VI. OUTLINE DRAWING



## VII. Wiring Diagram



Wire	Single	Colour	Assignment/function
Power Wire	L	Brown	Power supply, Mains 50/60 Hz, phase
	N	Blue	Power supply, Mains 50/60 Hz, neutral
	PE	Green & Yellow	Protective earth
Control Wire	+10VDC	Red	Voltage output +10VDC max. 10mA
	GND	Blue	Reference ground for control interface
	VSP	Yellow	Control input 0~10VDC or PWM
	FG	White	Tach output: 12 pulse per revolution

## VIII. WARNING

1. Make sure the appearance and accessories are intact and not missing, and model number in accordance with product.
2. Please do not carry the fan by its lead wires.
3. Qualified personnel is allowed to install the fan to avoid improper operation and injury.
4. Please connect the fan to the right voltage as label instructed otherwise it will be damaged.
5. Make sure the motor has been connected to the ground and there's no debris will interfere with operation before being powered on.
6. Please do not touch and push fan blade with fingers or others, fan blade and bearings may be damaged and it causes noise defect.
7. The depth of mounting screws used shall match the requirement, or else the motor will be damaged.
8. Fans are not suitable to be used in an environment that contains aggressive or corrosive fluids.
9. Do not store the fan in a high humidity environment. It is advised to apply functional testing before using the fan if it has been stored for more than 6 months.