# SPECIFICATION

## MODEL
## K-AC300-S230-25

## 1.Purpose

This specification provides part specific requirements and the Engineering Standard and/or Engineering requirements.

## 2.Engineering standard and safety regulations

2.1 Engineering standard

GB/T12350 Safety requirements of small-power motors

2.1.2

JB/T 10563 Technical specification for general purposes centrifugal fans

2.1.3 EN 60335-1 Safety of household and similar electrical appliances

2.2 Certification

☐ CE-EMC ☐ TUV ■ CCC ☐ Others

2.3 All material accord with RoHS.

## 3.Operating environment requirements

3.1 Operating temperature and humidity

Operating temperatures from -40°C to +65°C, Operating humidity from 5% to 85% RH.

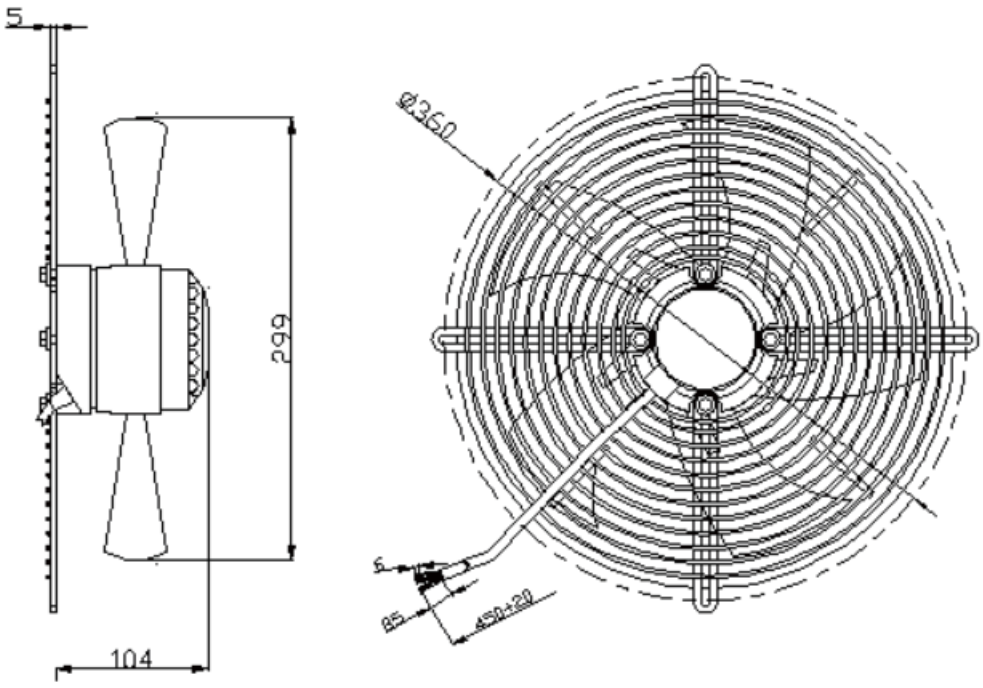
3.2 Weight: about 3.1kg/pcs

## 4.Prote ction

This motor with heat protection, cut off temperature: 140°C-150°C, replacement temperature:80°C-110°C.

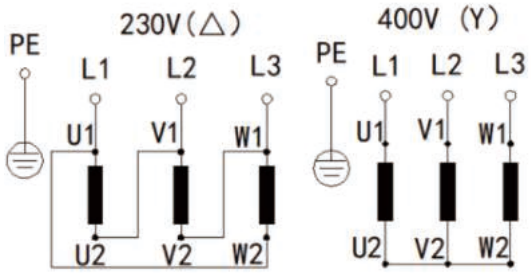
## 5.Mechanical requirements

5.1 Dimension drawing




5.2 View lead connection

5.2 View lead connection




PE=Yellow/Green
L1=U1=BLUE
U2=Green
L2=V1=Blue
V2=White
L3=W1=Brown
W2=Yellow

6.3 Balan cing

When the fan is running at 1600±10%r/min, the dynamic balance accuracy of each end side is not lower than the balance quality grade G6.3.

6.4 Motor type of protection

Ingress protection class is IP44.

6.5 Life expe ctance

The life expectancy is 40,000 hours at rated voltage, ambient temperature of 40 °C, and continuous operation of the fan at full speed (According to the actual working conditions of the product, the life expectancy will be different) .The warranty period is subject to the agreement agreed by both parties.

## 6.Fan performance

6.1Rating data

6.1.1Performance parameters of voltage 400VAC and frequency 50/60Hz

| Voltage [VAC] | Frequency [Hz] | Current draw [A] (±10%) | Power input [W] (±10%) | Speed [r/min] (±10%) | (OPa) Airflow [m³/h] (±10%) | Noise [Lp:dB(A)] (-7/+3) | Insulation class |
|---|---|---|---|---|---|---|---|
| 400 | 50 | 0.36 | 210 | 2530 | 3130 | 75 | F |
| 400 | 60 | 0.47 | 300 | 2690 | 3345 | 78 | F |

6.1.2 Performance parameters of voltage 230VAC and frequency 50/60Hz

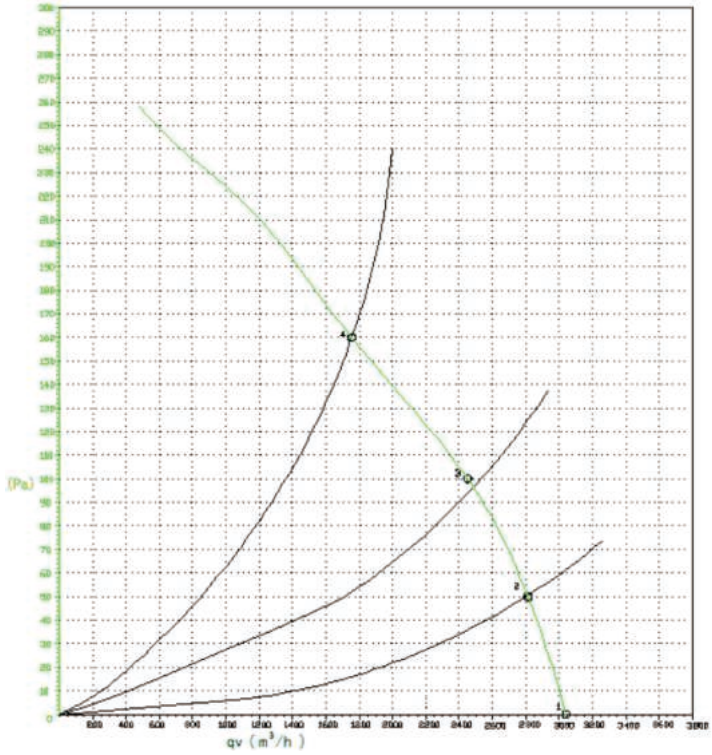
| Voltage [VAC] | Frequency [Hz] | Current draw [A] (±10%) | Power input [W] (±10%) | Speed [r/min] (±10%) | (OPa) Airflow [m³/h] (±10%) | Noise [Lp:dB(A)] (-7/+3) | Insulation class |
|---|---|---|---|---|---|---|---|
| 230 | 50 | 0.61 | 210 | 2530 | 3130 | 75 | F |
| 230 | 60 | 0.84 | 300 | 2690 | 3345 | 78 | F |

Note: the nominal parameter is under the following situation in Fans-tech lab:Fan runs in open operation. The airflow is measured in the wind tunnel, the noise is tested in a horizontal-position in the noise test room, with 1m distance to the air inlet of the fan.

This product is designed to operate at voltages from 230VAC~400VAC and frequencies from 50Hz ~60Hz.

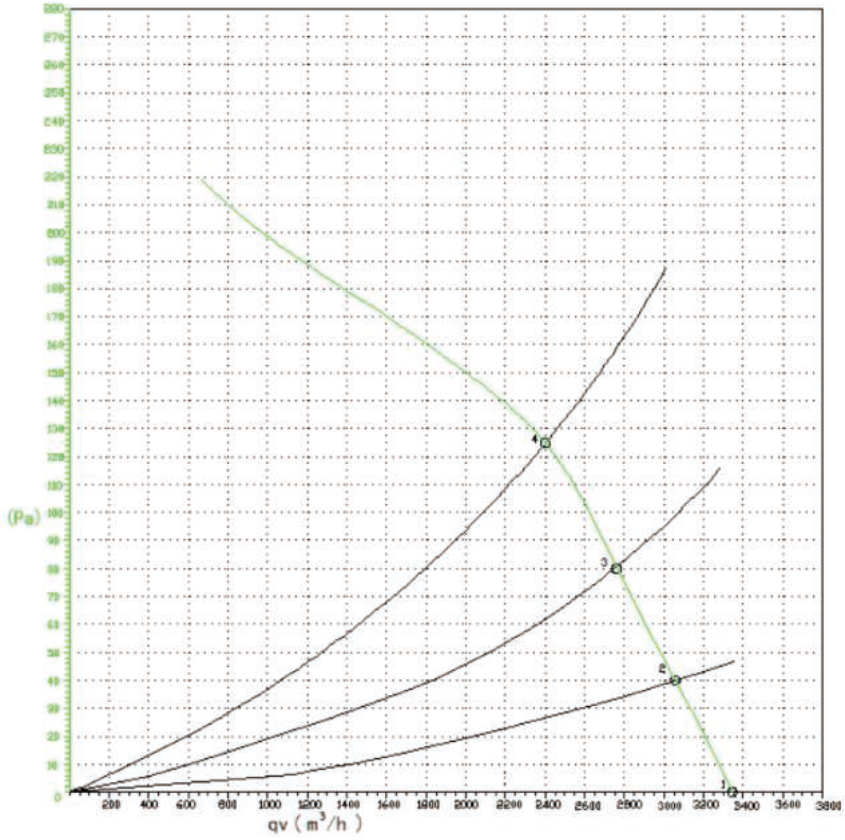
6.2 Performan ce curve

6.2.1 Performance curve at voltage 400VAC frequency 50Hz




| | U | F | N | Pe | I | qv | Pfs |
|---|---|---|---|---|---|---|---|
| | V | Hz | r/min | W | A | $M^3/s$ | Pa |
| 1 | 400 | 50 | 2530 | 210 | 0.36 | 3130 | 0 |
| 2 | 400 | 50 | 2495 | 226 | 0.37 | 2815 | 50 |
| 3 | 400 | 50 | 2450 | 245 | 0.39 | 2455 | 100 |
| 4 | 400 | 50 | 2360 | 276 | 0.43 | 1755 | 160 |

6.2.2 Performance curve at voltage 400VAC frequency 60Hz



| | U | F | N | Pe | I | qv | Pfs |
|---|---|---|---|---|---|---|---|
| | V | Hz | r/min | W | A | $M^3/s$ | Pa |
| 1 | 400 | 60 | 2690 | 300 | 0.47 | 3340 | 0 |
| 2 | 400 | 60 | 2630 | 315 | 0.48 | 3060 | 40 |
| 3 | 400 | 60 | 2575 | 330 | 0.50 | 2760 | 80 |
| 4 | 400 | 60 | 2500 | 346 | 0.52 | 2400 | 125 |

## 7.Packaging and marks

7.1 Packaging

The package must have a defined size and a suitable structure to ensure that the fan will not be damaged.