SPECIFICATION

MODEL
K-AC500-W380-09

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

2.1.1GB/T 12350 Safety requirements of small-power motors

2.1.2JB/T 10563 Technical specification for general purposes centrifugal fans

2.1.3EN 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 -20°C to +80°C, Operating humidity from 5% to 85% RH.

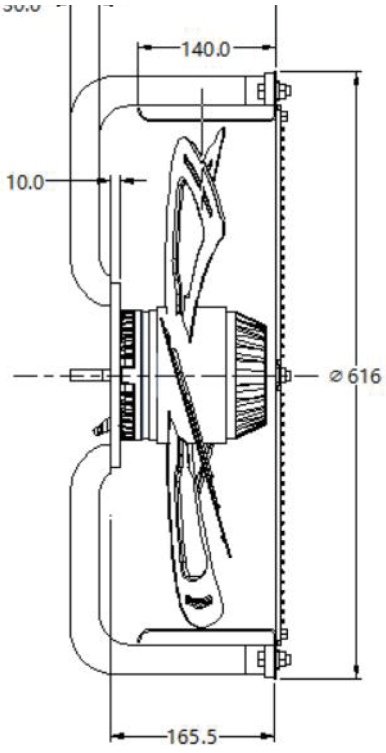
4. Weight: about 20.5kg/pcs

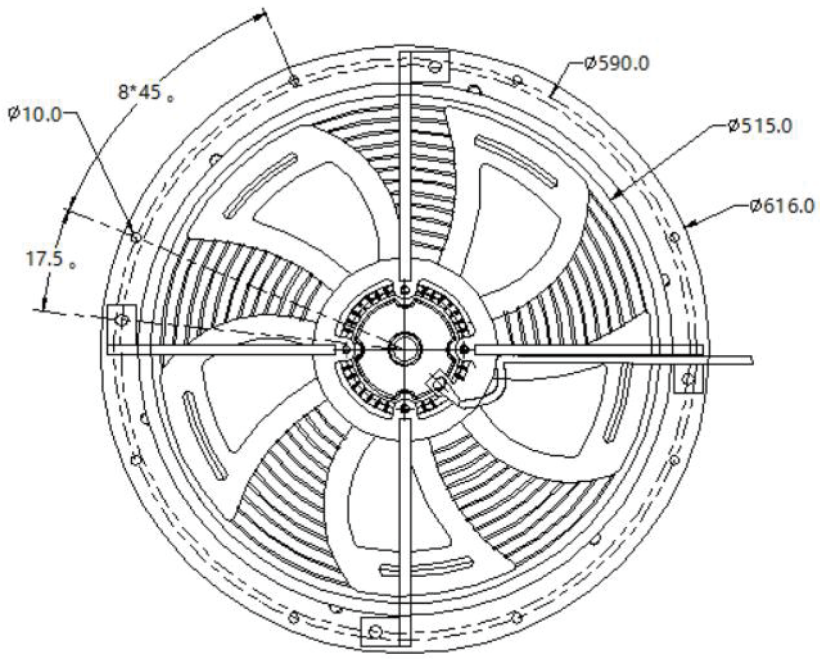
5. Prote ction

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

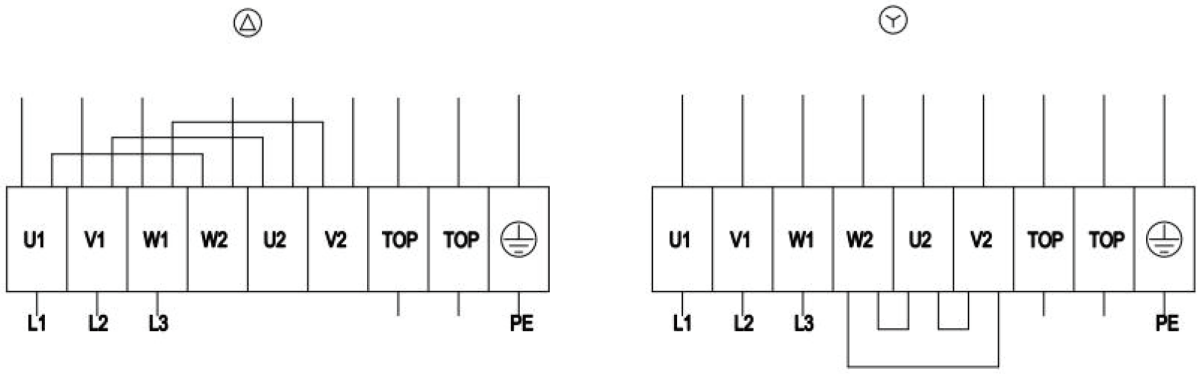
6. Mechanical requirements

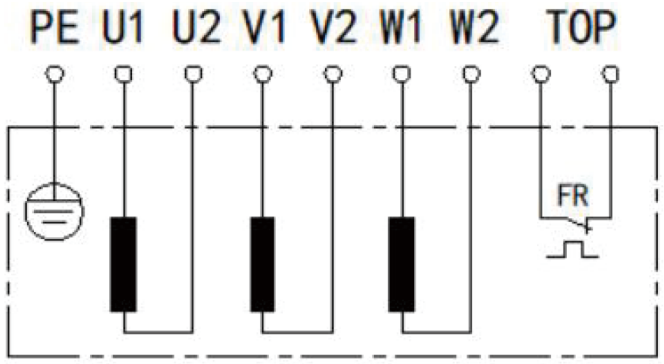
6.1 Dimension drawing





6.2 View lead connection





PE=GREEN YELLOW
L1=U1=BROWN
U2=RED
L2=V1=BLUE
V2=GREY
L3=W1=BLACK
W2=ORANGE
TOP=WHITE

6.3 Balan cing

When the fan is running at 1200±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 IP54.

6.5 Life expe ctance

The life expectancy is 40,000 hours at rated voltage, ambient temperature of 40 °C, and con t inuous 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.

7. Fan performance

7.1 Rating data

7.1.1 Performance parameters of voltage 400VAC and frequency 50Hz， when using Delta-connec tion

Attended mode	Voltage [VAC]	Frequency [Hz]	Current draw [A] (±10%)	Power input [W] (±10%)	Speed [r/min] (±10%)	(OPa) Airflow [m3/h]	Noise [Lp:dB(A)] (-7/+3)	Insulation class
▲	400	50	1.46	855	1350	9430	75	F

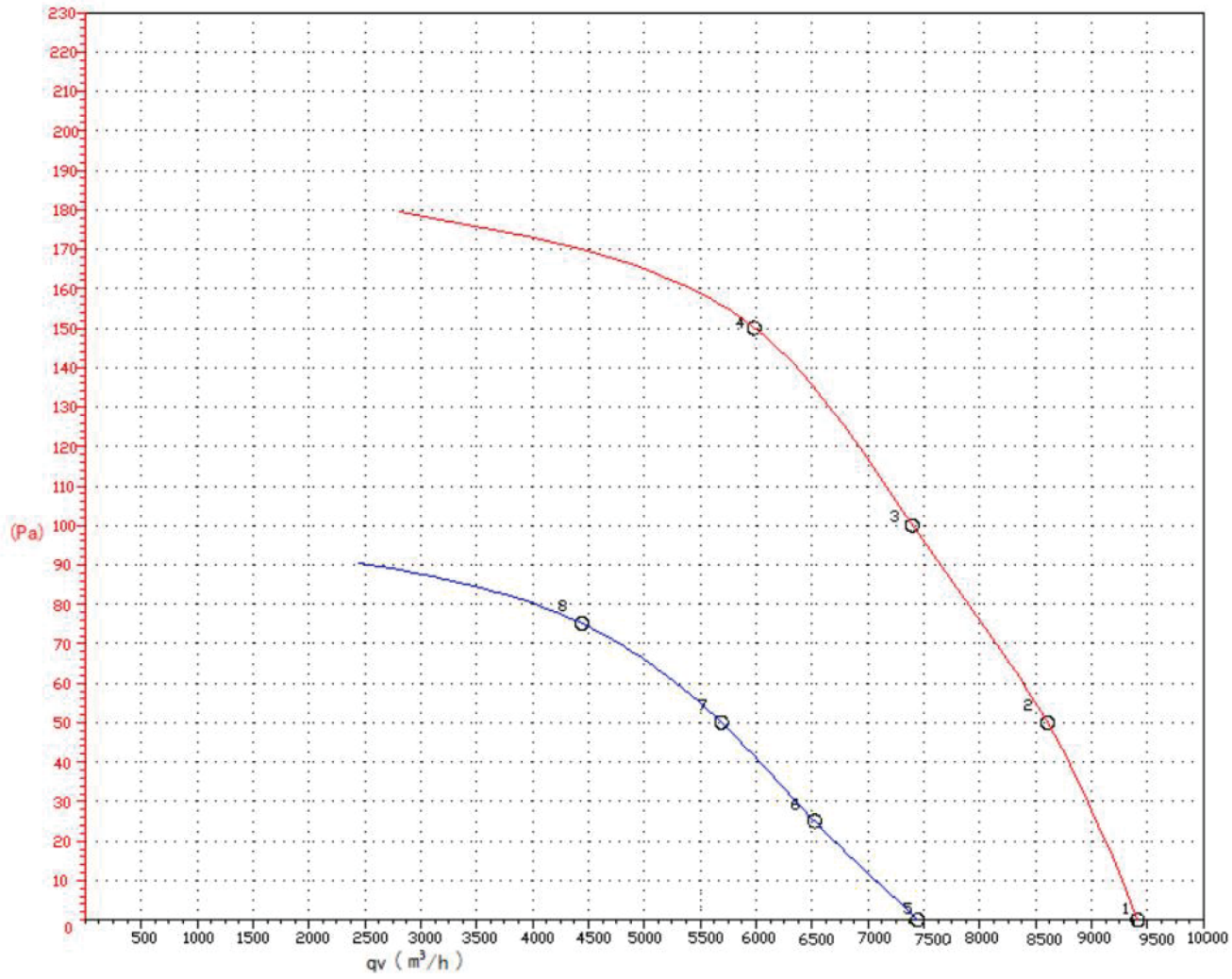
7.1.2 Performance parameters of voltage 400VAC and frequency 50Hz，when using Star connection

Attended mode	Voltage [VAC]	Frequency [Hz]	Current draw [A] (±10%)	Power input [W] (±10%)	Speed [r/min] (±10%)	(OPa) Airflow [m3/h]	Noise [Lp:dB(A)] (-7/+3)	Insulation class
Y	400	50	0.97	550	950	7455	71	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.

7.2 Performan ce curve

7.2.1Performance curve at voltage 400VAC frequency 50/60Hz



	coon	U	F	N	PE	I	qv	Pfs
		V	Hz	r/min	W	A	M^3/h	Pa
1	▲	400	50	1350	855	1.46	9430	0
2	▲	400	50	1325	905	1.58	8590	50
3	▲	400	50	1295	976	1.66	7410	100
4	▲	400	50	1265	1030	1.78	5960	150
5	Y	400	50	950	550	0.97	7455	0
6	Y	400	50	925	585	0.99	6510	25
7	Y	400	50	905	618	1.03	5650	50
8	Y	400	50	807	650	1.08	4450	75

8. Packaging and marks .

8.1Packaging

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